Xpress Engine™

User Manual

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LGPL License: http://www.gnu.org/copyleft/lesser.html
GPL License: http://www.gnu.org/licenses/gpl.html

Introduction to Document

Document Overview

This document describes how to install and use XE which enables you to build websites and manage contents.

Audience

Audience of this document is users who want to build and operate websites including Cafes and blogs by using XE.

Contact

For any comments or inquiries regarding the document, contact via email below.

Email: developers@xpressengine.com

Revision History

Ver.	Date	Changes Mode
1.0	2010.10.29	1.0 version distributed.

Conventions

Note Symbol

> **Note**
> A note provides information that is useful for readers.

Caution Symbol

> **Caution**
> A caution provides information that you should know in order to prevent system damages.

Window, Site, Menu, and Field Names/Selected Value and Symbol

Window, site, menu and field names, a selected value, and a symbol are marked as follows:

- Window name: In bold type such as **window name** window. Note that this convention is not applied in source code.
- Site name: Enclosed in single quotations such as 'Naver Desktop Download' site.
- Menu name: In bold type such as **Menu > Submenu**.
- Input value: In italic type such as *homepage*.

Source Code

Source code is written in black on a gray background in this document.

```
COPYDATASTRUCT st;
st.dwData = PURPLE_OUTBOUND_ENDING;
st.cbData = sizeof(pp);
st.lpData = &pp;
::SendMes(GetTargetHwnd(), WM_COPYDATA, (WPARAM)this->m_hWnd, (LPARAM)&st);
```

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1. Introduction to XE

This chapter provides a definition of XE, and describes its features and characteristics.

1.1 What is XE?

The name 'XE' is a combination of two words, 'eXpress' and 'Engine.' It can be defined as 'a system to help people express their thoughts or feelings.'

XE is a website creation program that is installed on a server computer. To make a website, you generally need to know programming languages such as HTML, CSS, PHP and SQL. But if you use XE, you can easily make a website without being familiar with any programming languages.

Based on a core program, XE core, XE enables you to combine various features and make the website you want.

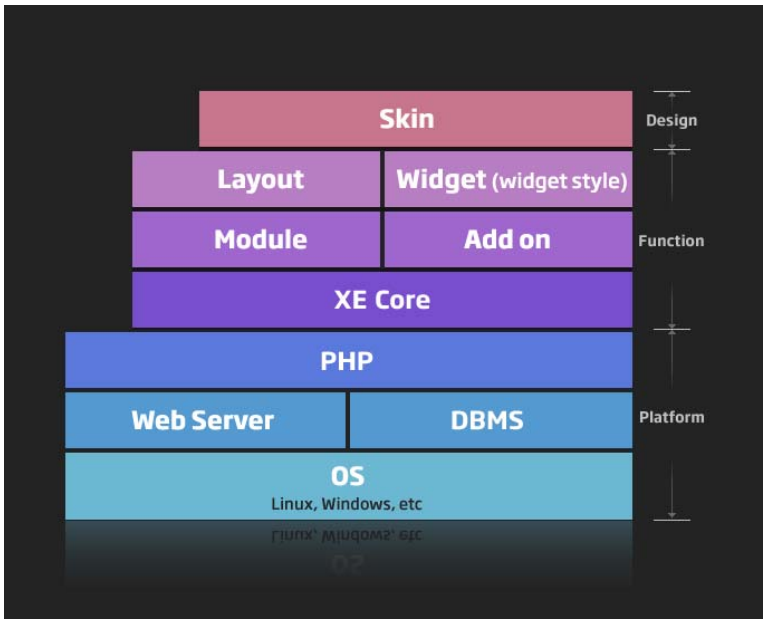


Figure 1-1 XE Summary

> **Note**
>
> For detailed information on XE, see the official XE website.
> http://www.xpressengine.com

1.2 Features and Characteristics of XE

The features and characteristics of XE are as follows:

Easy Website Construction

XE provides diverse modules such as Textyle (blog type), CafeXE (Cafe type) and PlanetXE (micro-blog type). You can conveniently construct the website you want to make by selecting the appropriate modules.

Modular Structure

A module in XE is a program. XE is composed in a modular structure, making it easy to construct, add and use features, like building with Lego blocks. You can construct diverse websites by combining the basic modules provided by XE with the extended features shared through communities. Developers can easily develop additional modules for XE with new features, and share them through XE communities.

Open Community

XE provides a lot of information through its open community. In the XE community, there are many users who have used XE since ZeroBoard, and free and open source project members. Users can search the community for the information they want, and ask other users for the information at will.

Multi-language Support

XE supports multiple languages for multiple countries. You can easily create a website that displays in English, Japanese, Chinese, Russian and others languages, as well as Korean, without the separation of the website by language.

1.3 Terminology

FileZilla

A free file transfer protocol (FTP) program. Its official website is http://filezilla-project.org/.

mod_rewrite

A function that shortens a long URL to make it easy to remember. For example, http://myadmin.com/index.php?module=admin can be shortened to http://example.com/admin. This feature can be used only when it is supported by the Web server.

PuTTY

A remote access program that supports Telnet or Secure Shell (SSH) protocol. The official website is http://www.putty.nl.

WPI

An abbreviation of Web Platform Installer. Microsoft provides this tool to enable the use of Web Platform products, and its official website is http://www.microsoft.com/web/default.aspx.

XE core

Core program that is responsible for the installation and operation of XE. XE core is used to install and execute additional features, such as module, layout and skin.

Additional features of XE

Components that can be added to XE core for user convenience in website operation. They include modules, addons, widgets, skins, widget styles and layouts.

XE

An abbreviation of XpressEngine. This is the website builder program that is installed on and used from a server computer, and its official website is http://www.xpressengine.com/.

Virtual website

This function enables you to use a web page made by XE as another website separate from XE's default website.

Layout

A component that is responsible for the arrangement of additional features installed on a website.

Module

Program that can be added to XE for use

EasyInstall

This feature enables you to install a selected additional feature by interworking with the official website for XE without downloading any source program from the official website for XE and uploading it to a server.

Skin

A design of program installed on any website.

Addon

A small program that makes an interrupt between the operations of module features to perform their own functions.

Widget Style

A component that decorates the appearances of widgets.

Widgets

A component inserted into a layout or a page module for operation.

ZeroBoard

The most popular bulletin board system that was developed in 1999 in Korea. The software has been developed into the current XE through ZeroBoard XE.

2. Installation and Removal

This chapter describes how to install and uninstall XE.

2.1 Prerequisite

XE is a web application for setup. To create a website by using XE, you need a web server on which XE is installed. The server space to install XE can be secured in several ways, but the following two ways can be considered: using a computer directly as a server, or leasing web server space provided by a web hosting provider at some cost.

2.1.1 Required Programs

The list of programs required for installing XE in the web server environment is shown in the table below. If you use Microsoft Web Platform Installer to install XE, the programs listed in the table will be automatically installed. If you do not use one of these installers, you must check and set up the required programs and libraries in advance.

Table 2-1 The List of Required Programs

Program		Mandatory / Optional
PHP 4.x ~ 5.x (excluding 5.2.2)		Mandatory
PHP library	XML library	Mandatory
	GD library	Mandatory
	ICONV	Optional
Database Management System (DBMS)	CUBRID	Choice
	Firebird	
	MySQL 4.1 or higher	
	PostgreSQL	
	SQLite2 and SQLite3	
	MS-SQL	

2.1.2 Downloading XE Core Setup File

To create a website by using XE, you must set up XE core. XE core is the core program responsible for the installation and operation of XE. XE does not have any website management related features. However, XE core is essential for the installation and execution of additional features such as modules, layouts and skins.

You can download the latest XE core file from the XE official website (http://xe.xpressengine.net/?mid=issuetracker&act=dispIssuetrackerDownload) for free.

> **Note**
> If you install XE by using WPI on Windows, you do not need to download the XE core setup file.

The XE core setup file is provided in two types, which are zip and tgz. Download the zip file if you want to upload the files to the server after extracting them on My Computer, or the tgz file if you want to extract the compressed file after uploading it to the server. For more information in the file upload method used for each type, see "Uploading XE Core Setup File by Formats."

2.2 Setting Up a Server Environment

Regardless of the type of server OS, XE can be installed in all environments where "Required Programs" is installed. You must build the required Web server environment before installing XE.

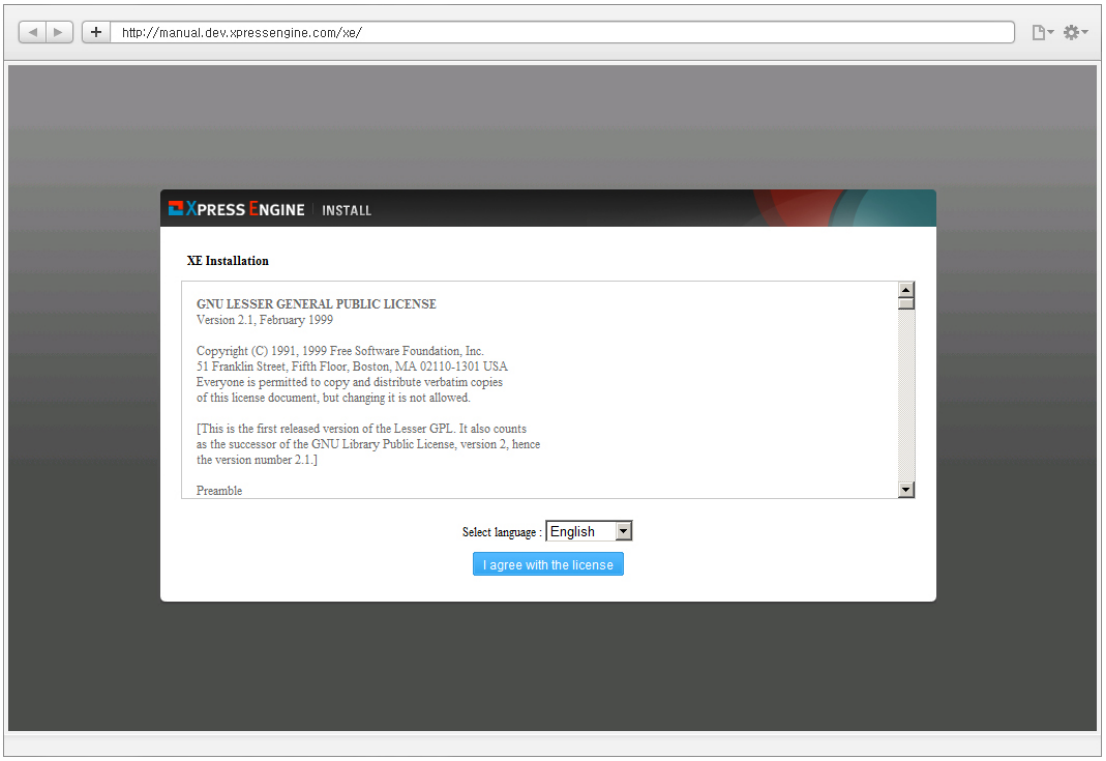
You can install XE and the required programs in the Windows environment by using WPI. For more information, see the example "Setting Up a Windows Environment."

Before installing XE in the Linux environment, you must install the programs in "Required programs" manually. The detailed setup procedure for each program is not covered in this document. For detailed information on setting accounts, getting access to a server from a remote website and uploading the XE core setup file, see "Setting Up a Linux Environment."

2.3 Installing XE Core

This section describes how to install XE core by using the XE core setup file.

1. With a Web browser, access the path (www.example.com or www.example.com/xe), where the XE core setup file is uploaded.
2. When the **XE Installation** window appears, click **I agree with the license**.



Note

If this page has a broken image or is empty, you must upload the XE core setup file again.

3. Check to ensure all required setup conditions are marked as **Enable**, and click **Continue installation**.

   This window shows whether the minimum PHP version and the required libraries are installed. If any of the required setup conditions are not marked as Enable, check the error message and mark the item.

Note

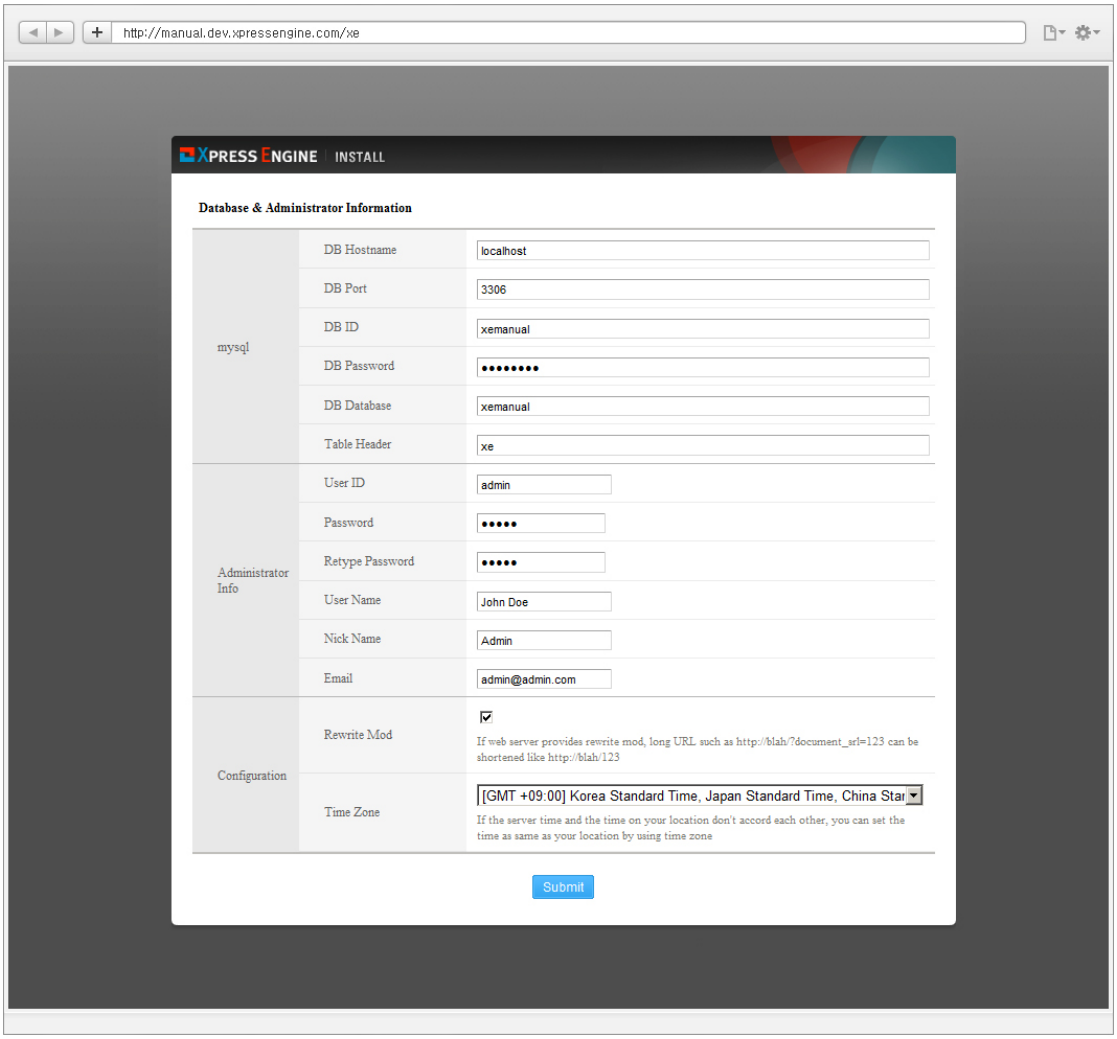
If **Permission** is marked as **Disable** due to a file permission settings error, see "Incomplete Permission Settings When Installing XE."

4. Select the DBMS to be used in XE, and then click **Continue installation**. In case of this document, select **mysql**.

Note

If there is no DBMS available in XE, all items will be deactivated. In this case, install the DBMS to be used, or ask your web hosting provider to install it.

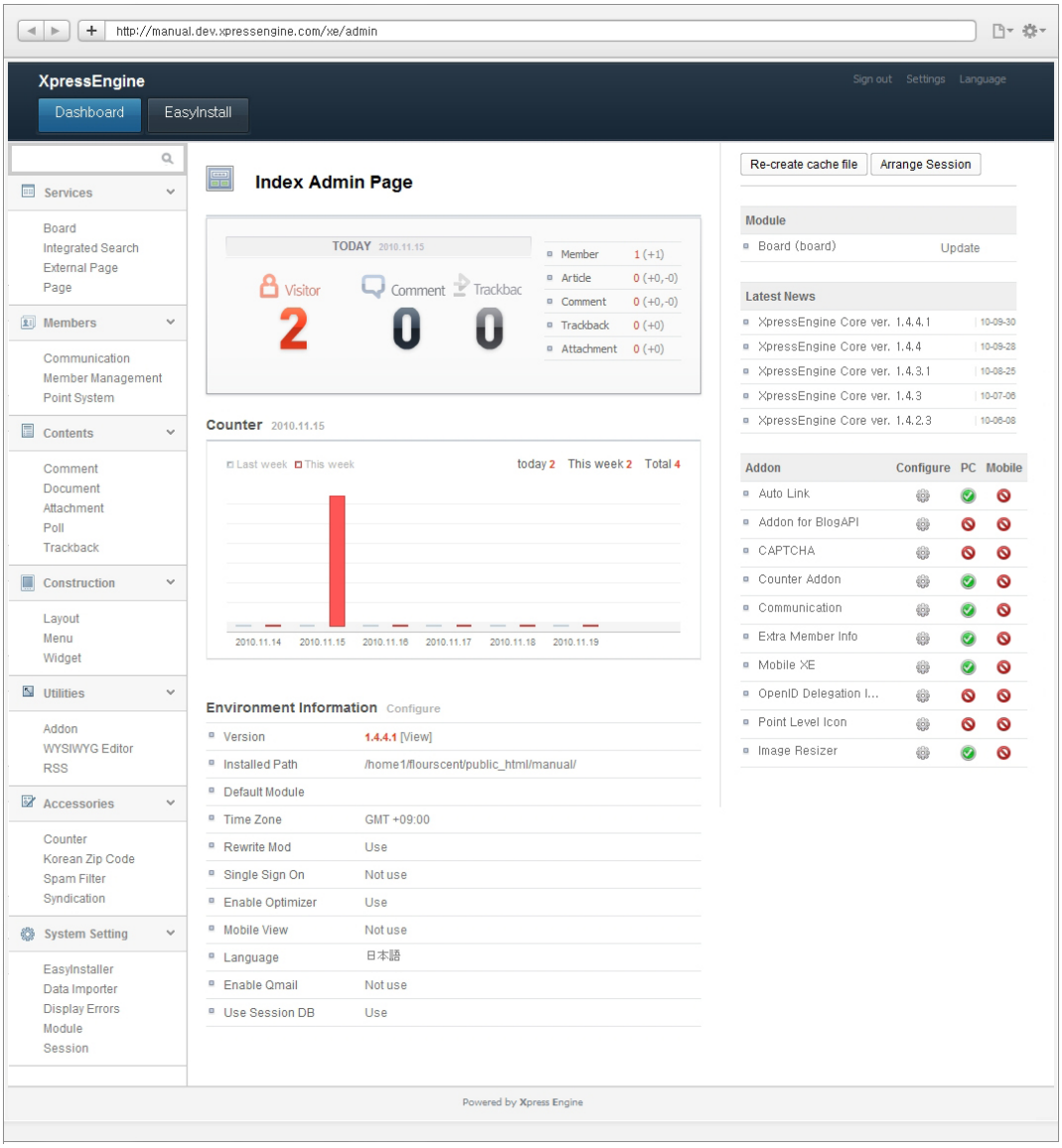
5. As shown in the figure below, enter the required information for mysql, Administrator Info and Configuration, and click **Submit**.



Note

If a problem occurs while you enter DBMS & administrator information, see "Incorrect DB Account Information."

6. When the installation is completed, the XE's Index Admin Page will appear, as shown in the figure below:


http://manual.dev.xpressengine.com/xe/admin
XpressEngine
Sign out Settings Language
Dashboard
EasyInstall
Services
Board
Integrated Search
External Page
Page
Members
Communication
Member Management
Point System
Contents
Comment
Document
Attachment
Poll
Trackback
Construction
Layout
Menu
Widget
Utilities
Addon
WYSIWYG Editor
RSS
Accessories
Counter
Korean Zip Code
Spam Filter
Syndication
System Setting
EasyInstaller
Data Importer
Display Errors
Module
Session
Index Admin Page
TODAY 2010.11.15
Visitor 2
Comment 0
Trackbac 0
Member 1 (+1)
Article 0 (+0,-0)
Comment 0 (+0,-0)
Trackback 0 (+0)
Attachment 0 (+0)
Counter 2010.11.15
Last week This week
today 2 This week 2 Total 4
2010.11.14 2010.11.15 2010.11.16 2010.11.17 2010.11.18 2010.11.19
Environment Information Configure
Version 1.4.4.1 [View]
Installed Path /home1/flourscent/public_html/manual/
Default Module
Time Zone GMT +09:00
Rewrite Mod Use
Single Sign On Not use
Enable Optimizer Use
Mobile View Not use
Language 日本語
Enable Qmail Not use
Use Session DB Use
Re-create cache file
Arrange Session
Module
Board (board) Update
Latest News
XpressEngine Core ver. 1.4.4.1 10-09-30
XpressEngine Core ver. 1.4.4 10-09-28
XpressEngine Core ver. 1.4.3.1 10-08-25
XpressEngine Core ver. 1.4.3 10-07-06
XpressEngine Core ver. 1.4.2.3 10-06-08
Addon Configure PC Mobile
Auto Link
Addon for BlogAPI
CAPTCHA
Counter Addon
Communication
Extra Member Info
Mobile XE
OpenID Delegation I...
Point Level Icon
Image Resizer
Powered by Xpress Engine

2.4 Removing XE Core

If XE is no longer being used, delete all contents under the folder where XE is installed.

All data used for the administration of the website created by XE is stored in the database. If you want to delete all data, delete all DB tables used for the administration of your website. When you install XE again or transfer your server, you can reuse the data after migration.

For detailed information on how to delete or migrate data, see the usage of DBMS used for the administration of your website.

3. Menus of XE Core

This chapter explores each menu of XE core.

3.1 Index Admin Page

As shown in the figure below, open the XE Admin Page, enter the administrator account and log into the page. 'example.com' of the address below indicates the domain address where XE is installed.

- When using mod_rewrite: http://example.com/admin
- When not using mod_rewrite: http://example.com/index.php?module=admin

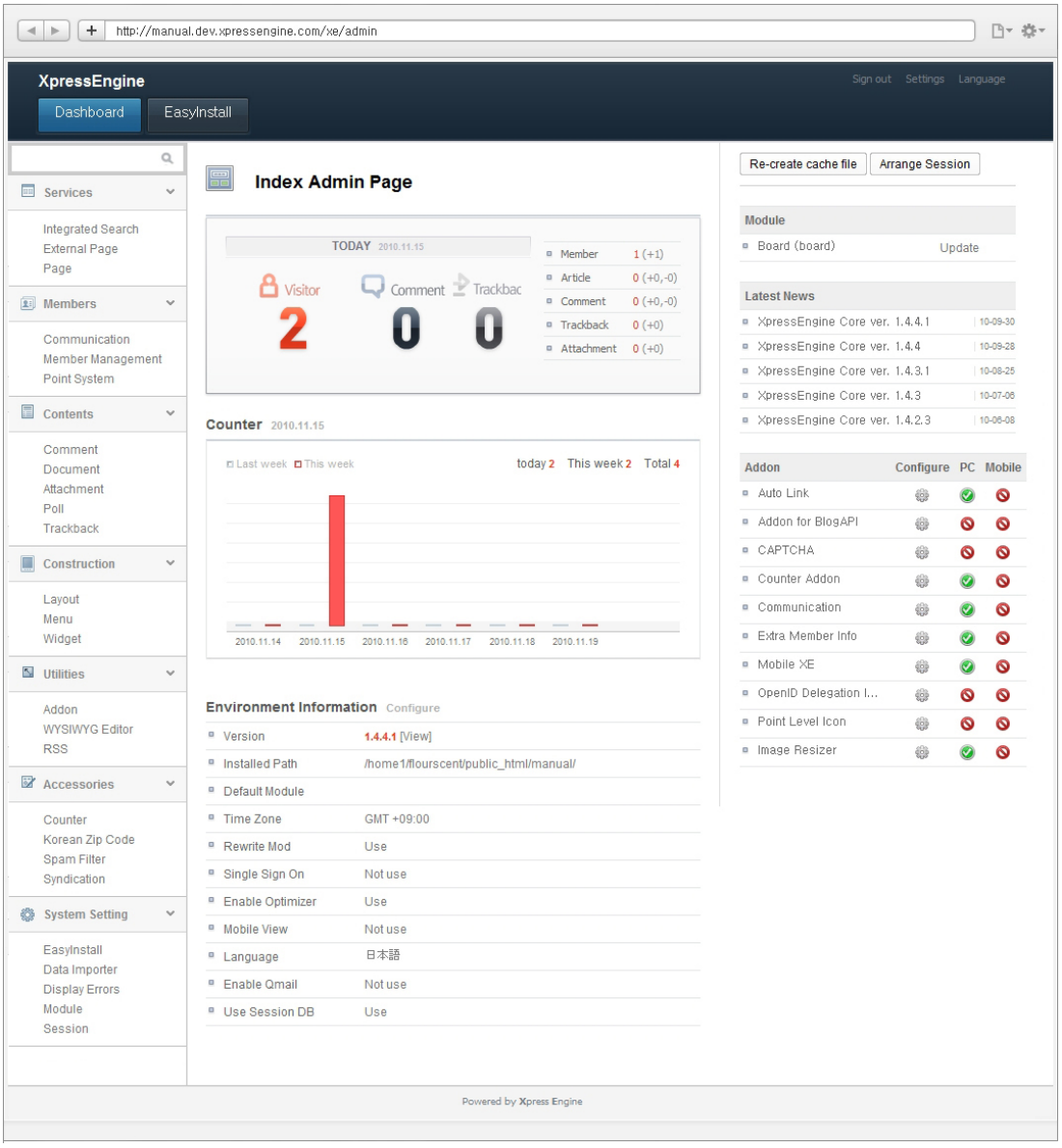


Figure 3-1 XE Admin Page

3.2 XE Administration Menu

This section describes the default menu available for the administrator.

3.2.1 Services

Integrated Search

This is used to search all documents created through XE, or to search the documents of a selected module.

External Page

This module enables you to use external HTML or PHP files in XE. You can use absolute paths and relative paths and, also, show external pages of the server when it starts with 'http://.'

Page

This module enables you to create a complete page. You can create dynamic pages by using recent posts or other widgets, and decorate them with various images via the editor component.

Like other modules, you can use 'mid = module name' as the access URL, and select it as the default module to be used as the main page.

3.2.2 Members

Communication

This module is used to communicate with members by exchanging messages or managing friends.

Member Management

This module is used to create, edit and delete members and manage groups or member prescription forms. You can create more groups in addition to the default group, and request more information in addition to the default information obtained from the registration form.

Point System

You can grant points to members when they write, upload or download original posts or comments. In addition, you can set the level of groups, and set to upgrade the level based on points.

3.2.3 Contents

Comment

This module is used to manage comments registered on websites. You can see and delete comments, and check reported comments.

Document

This module is used to manage documents registered on websites. You can see and delete document contents and check reported/deleted documents.

Attachment

This module is used to manage files attached to posts.

Poll

This module is used to manage polls registered on websites.

Trackback

This is used to view the lists of trackbacks or links from outside the site. You can select whether to allow trackbacks or not. If trackbacks are not allowed, they cannot be received and will not be displayed even if you link them.

3.2.4 Construction

Layout

This helps you to create a website layout easily. Through layout setup and menu connection, it arranges diverse modules appropriately and shows the appearance of the completed website. Since layouts that cannot be deleted or edited are blogs' or other modules' own layouts, you must set them in the respective modules.

Menu

This is used to build complete websites with no manual work by arranging created modules and connecting them to layouts through the convenient menu management. The menu only has the information to connect modules to layouts and show various types of menus through the layouts, and not to manage websites.

Widget

A widget is used in layouts or page modules and can display the data already created by modules, or create its own data. It can interwork with internal modules or external open APIs and can be applied in diverse ways through its settings. In addition, you can add widgets through the Generate Code function without using page modules or layout modules.

3.2.5 Utilities

Addon

This is used to control operation, and not to display HTML results. You can integrate useful features for website administration just by turning desired Addons on or off.

WYSIWYG Editor

This enables you to manage editor components that are the extended features of a WYSIWYG editor.

RSS

This can provide integrated Rich website Summary (RSS) feeds composed of various modules created through XE. The default value is **Enable RSS Feeds**. Integrated feeds are provided through the initial website window, and individual modules not allowed to open feeds are excluded from the RSS feed list. As in some modules, the default value of open feed is set to **Do Not Open**, you must check whether the **Open Text** item is set to **Open Full Text Feed** or **Open Feed Summary** in the **Additional Settings** of each module.

3.2.6 Accessories

Counter

You can view the statistics about your website visitors.

Korean Zip Code

This menu is used to set the zip code search server for Korea.

Spam Filter

This menu is used to identify spam posts or comments and block spams. You can set IP addresses keywords to ban in the **Spam Filter** menu.

3.2.7 System Setting

EasyInstall

This menu enables you to set up the additional features including modules, skins, layouts, and widgets on your website by interworking with the official website for XE. You do not need to download the corresponding source from the official website to upload it to your server.

Data Importer

You can import data from ZeroBoard 4, zb55beta or other program.

Display Errors

This menu is used to specify skins for error messages.

Module

XE is composed of modules and default libraries. This menu enables you to see all modules installed and manage them.

Session

This module is used to manage sessions.

4. XE Additional Features

This chapter describes types of additional features in XE, and how to install them.

4.1 Types of XE Additional Features

The biggest advantage of XE is that XE enables you to operate websites more conveniently by adding diverse features. This section describes the additional features of XE. For information on how to install each additional feature, see "How to Install Additional Features."

Module

A module in XE is a program. Multiple modules can be combined into a bigger module, and each module can operate independently. In short, modules are programs that are additionally installed to implement specific features on websites.

Bulletin board, CafeXE and Textyle can be considered the representative modules provided in XE.

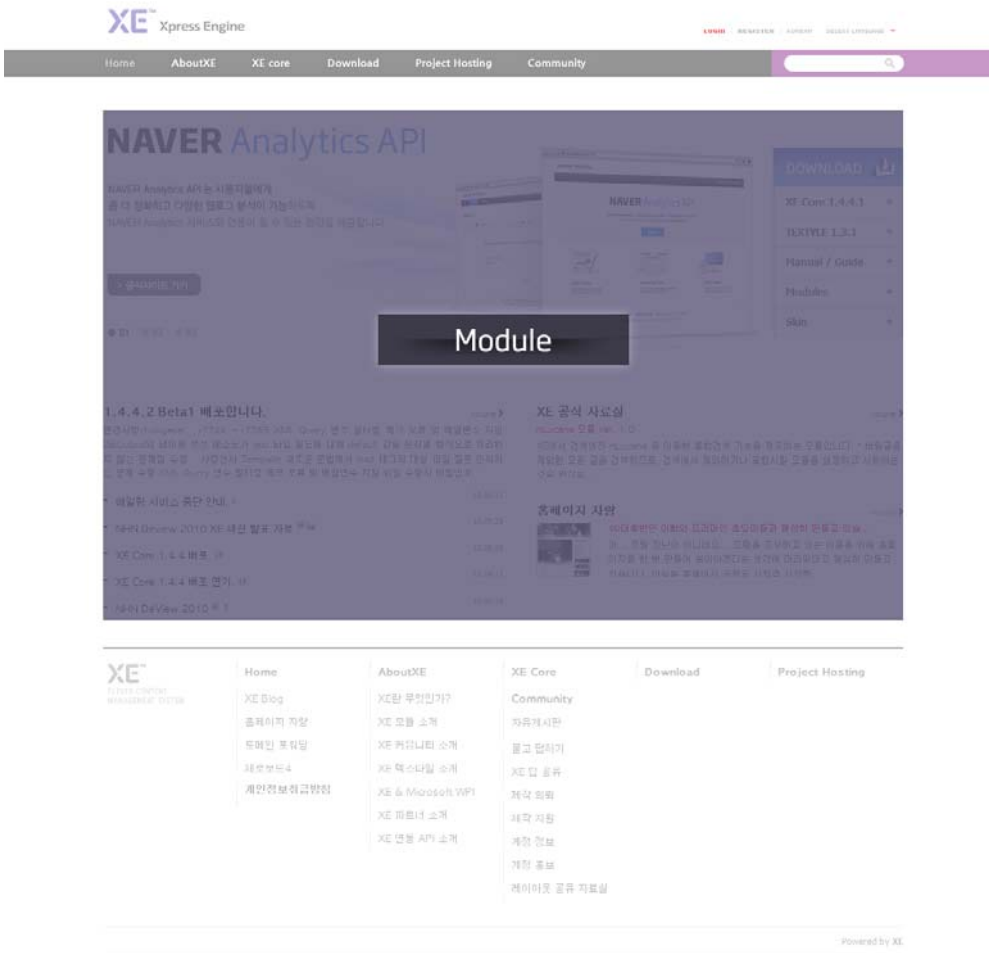


Figure 4-1 Modules

Addon

A small program that interrupts between the operations of modules and performs its own operations. In addition to modules, addons execute their own features by themselves. However, addons are different from modules in that they do not provide the execution results to outside.

Default counter and mobile XE are examples of the representative Addons provided by XE.

Widget

A widget is inserted into and operated in a layout or a page module. Widgets can display data already created in modules, or create its own data. For example, you can use a widget to display the list of the latest posts in the front page of your website. Language selection and login information display widgets are examples of representative widgets provided by XE.

Widget Style

A widget style is used to decorate a widget. If a skin decorates the output part of a widget, the widget style can be considered a skin for the appearance of a widget. By applying widget styles, you can add contents, such as titles and other links, to widget blocks as well as change their appearance.

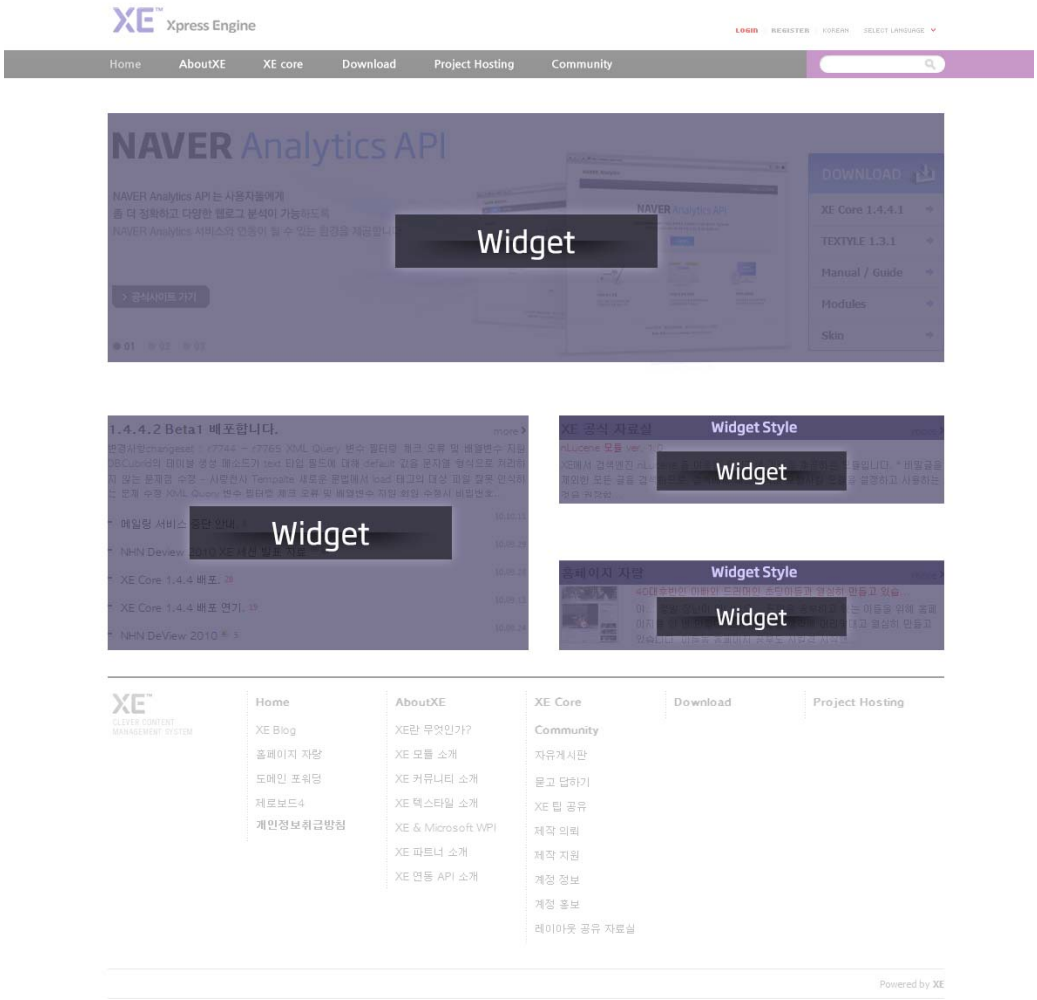


Figure 4-2 Widget and Widget Style

Skin

A skin is the design of programs installed in websites. In other words, a skin can be considered as the clothing of a program (modules or widgets).

The XE official website provides various skins for each program. Appropriate use of these skins will make you operate a better website that reflects your unique personality.

Layout

After installing various additional features on your website, you must arrange them on the screen appropriately. The layout is responsible for this screen arrangement. A layout has a very close relationship with additional features such as modules and widgets. As the layout cannot display any content without those additional features, nothing is displayed in the screen. If, in the other hand, a program is installed but there is no layout, the screen will also remain blank or empty because each element will not know where it is to be displayed.

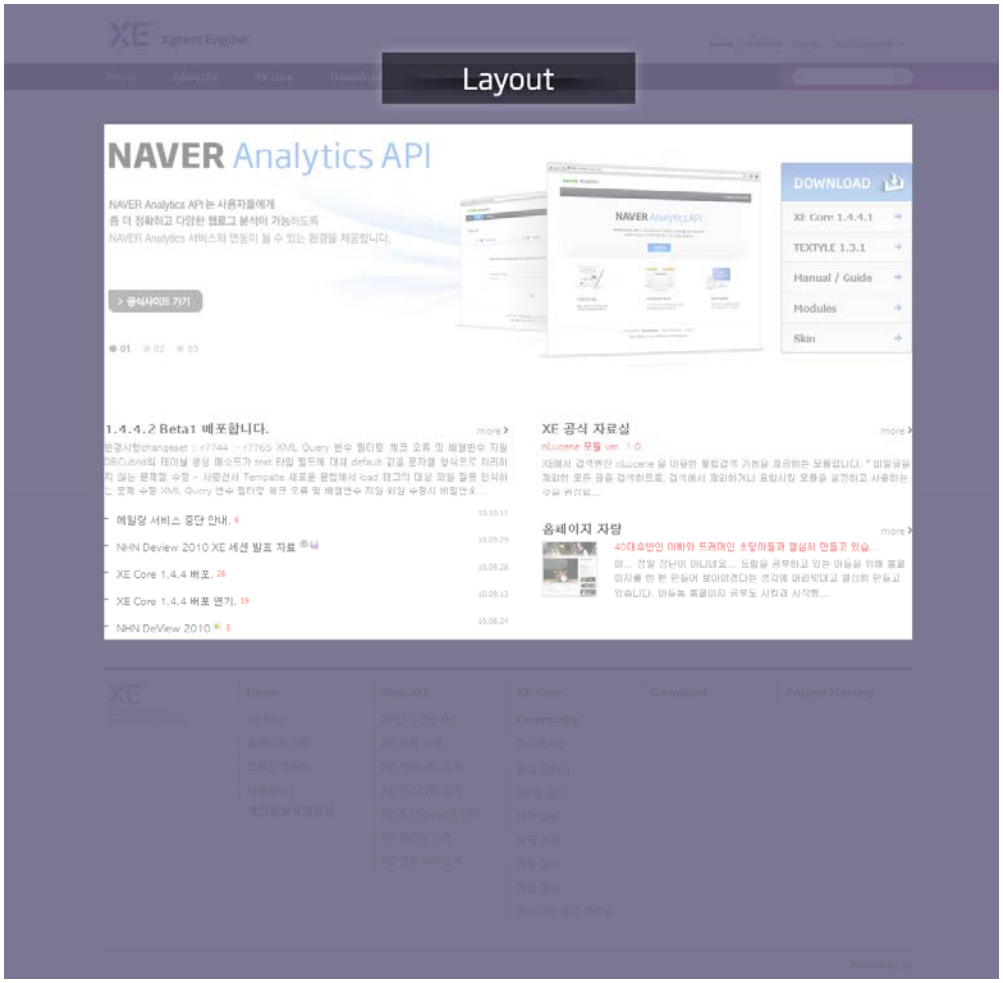


Figure 4-3 Layout

4.2 How to Install Additional Features

Various additional features can be installed in XE in two ways: Uploading source files to the server where XE is installed after downloading the files from the official XE website, and using EasyInstall provided by XE core.

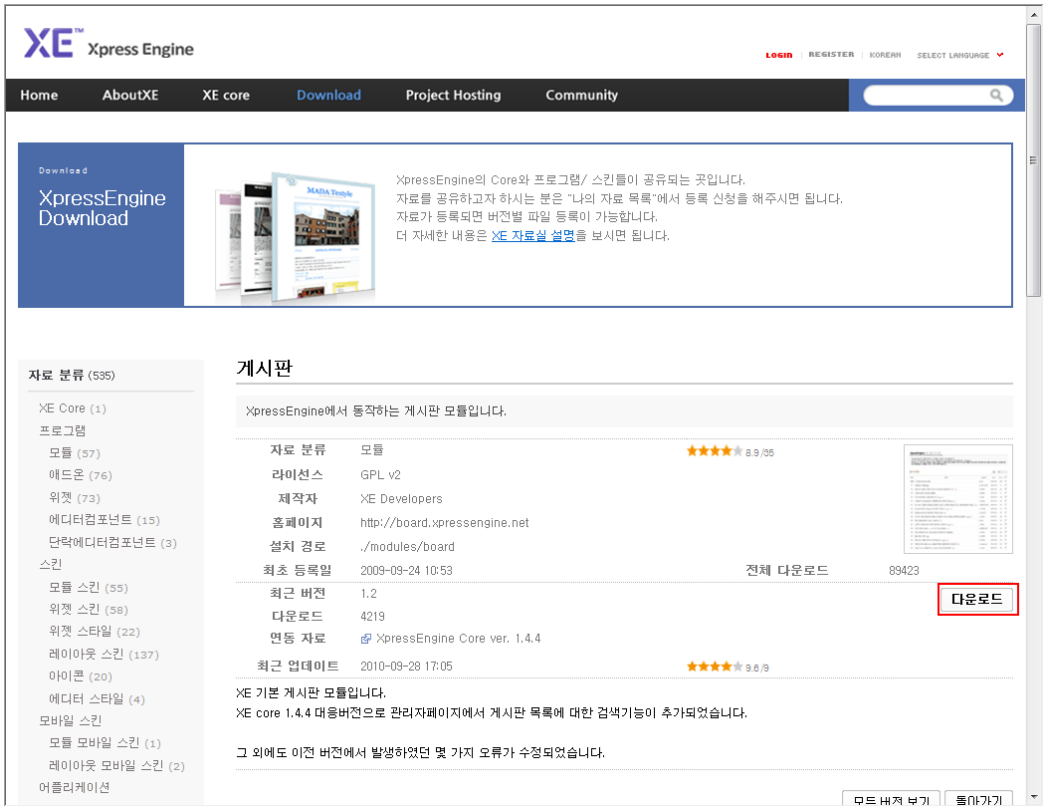
> **Note**
>
> Installing additional features in XE means transferring the source codes of the additional features into the operating server. In short, the contents to be displayed in the actual website cannot be created through the installation of the additional features alone. For more information on how to create additional features and make them interwork with websites, see "Creating Websites."

4.2.1 Installing Additional Features by Uploading Source Files

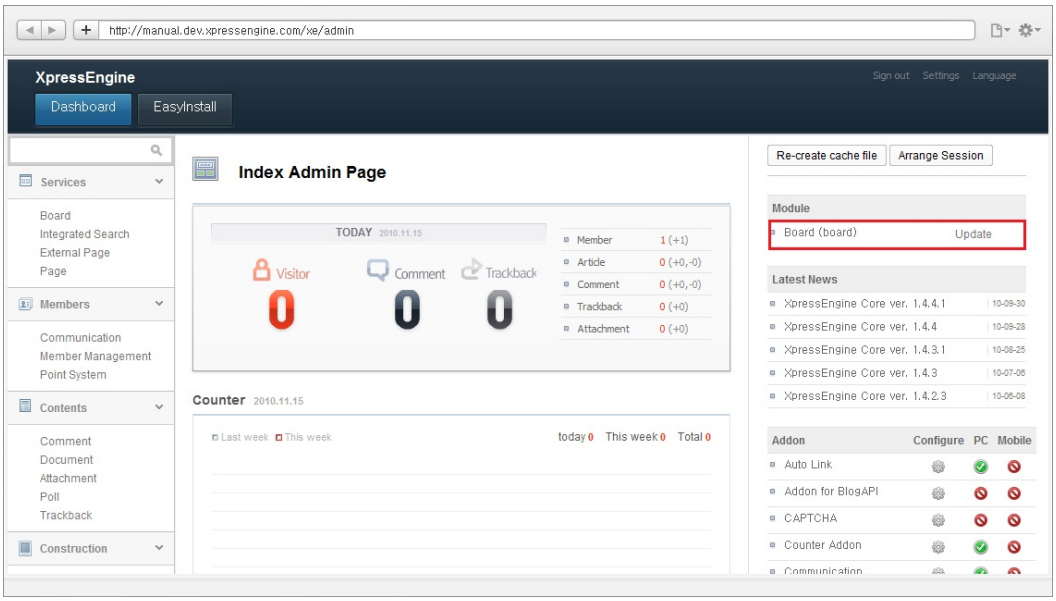
You can download source files for additional features from the XE official website, and upload them to the server where XE is installed.

For example, to install a bulletin board module by uploading source files, do the following.

1. Access the archive of the XE official website (http://www.xpressengine.com/download).
2. Select one of the bulletin board modules and download it to My Computer.



3. Extract the bulletin board module from the zip file you have downloaded. When the extraction is complete, a directory called 'board' is created.
4. Move the extracted 'board' directory to the './modules' directory under the XE installation path. All modules are installed in the '/modules' directory under the XE installation path.
5. Check the module list in the Index Admin Page to ensure that a bulletin board module has been added, as shown in the figure below.



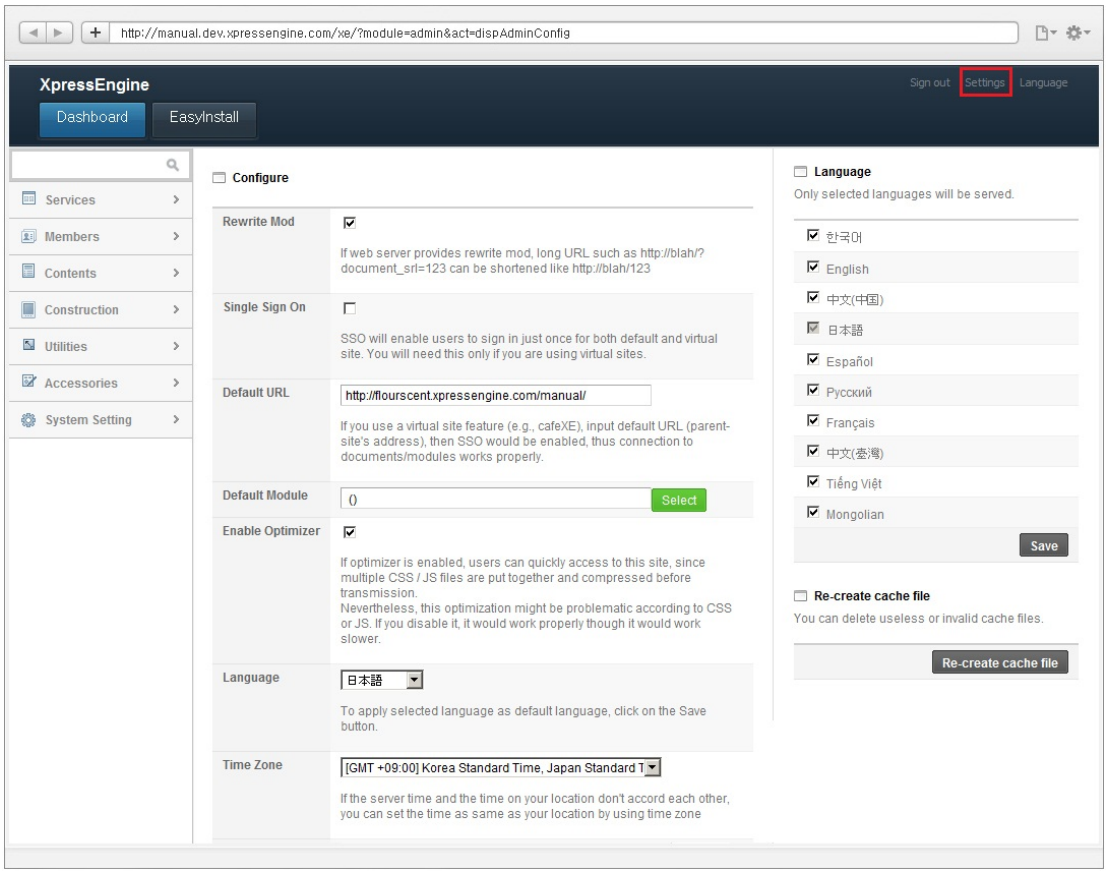
6. Click **Update** to complete the installation.

4.2.2 Installing Additional Features by Using EasyInstall

Setting FTP Account

To install additional features by using EasyInstall, you must set the account to use EasyInstall. The procedure used to set an account is as follows:

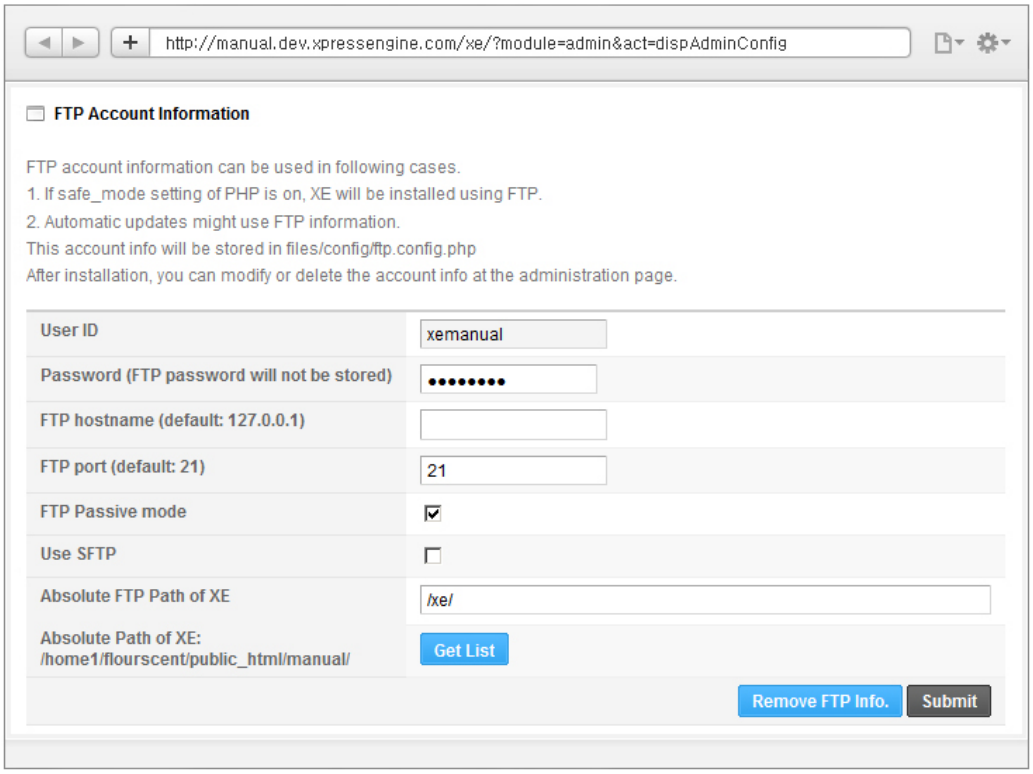
1. Click **Settings** at the top right of the XE Admin Page.



2. Enter the FTP account of the web server in **FTP Account Information** at the bottom of the **Configure** page and click **Get List**.
   - User ID: A user ID for the server
   - Password: A password for the user ID
   - FTP hostname: The server address is used to access the server where XE is installed. Except for some special cases, XE usually installs its components in the server where it is installed. Therefore, enter *localhost* or *127.0.0.1*, which is the XE server address.
   - FTP port: By default, the FTP port number is set to 21, but it may vary depending on the server. If the port number is not 21, contact your server administrator.
   - FTP Passive mode: This feature enables you to use FTP service normally even when clients (web server to be used) are behind a firewall. To get FTP connections to work through a firewall, this mode must be activated. Therefore, to use EasyInstall, the server must support the FTP Passive mode.
   - Use SFTP: The data transferred via FTP is not encrypted. Using SSH File Transfer Protocol (SFTP) enables you to use EasyInstall more safely. You can use SFTP only when the related PHP module is installed.
   - Absolute FTP path of XE: FTP path indicates the absolute path to the location where the XE source code exists. Enter the absolute FTP path. For example, if the account for XE installation and FTP setting are 'xemanual' and the path to XE source is '/home/xemanual/xe', you must enter the absolute FTP path of the xemanual user, which is */xe/*.

Note

To enter a home directory, you must add '/' to the end of the directory path.



3. If you import a list with no error, click **Submit**.

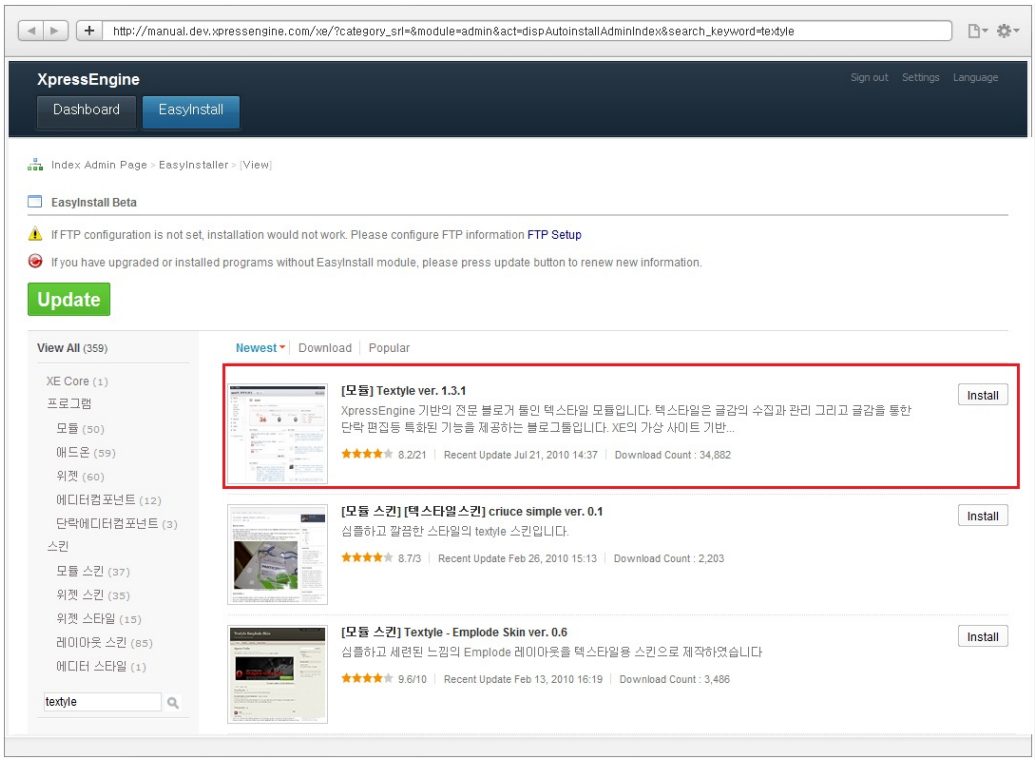
Now, the account setting to use EasyInstall is completed.

> **Note**
>
> If any error related to FTP home directory occurs during the execution of EasyInstall, see "FTP Home Directory Inaccessible during EasyInstall."

Using EasyInstall

For example, the procedure used to install the Textyle module through EasyInstall is as follows:

1. To move to EasyInstall window, click **EasyInstall** at the top of the XE Admin Page.
2. Click **Update** in EasyInstall window to import the latest additional feature information.
3. Find the Textyle module and click **Install** at the right side of the module description.


http://manual.dev.xpressengine.com/xe/?category_srl=&module=admin&act=dispAutoinstallAdminIndex&search_keyword=textyle
XpressEngine
Sign out
Settings
Language
Dashboard
EasyInstall
Index Admin Page > EasyInstaller > [View]
EasyInstall Beta
If FTP configuration is not set, installation would not work. Please configure FTP information FTP Setup
If you have upgraded or installed programs without EasyInstall module, please press update button to renew new information.
Update
View All (359)
XE Core (1)
프로그램
모듈 (50)
애드온 (59)
위젯 (60)
에디터컴포넌트 (12)
단락에디터컴포넌트 (3)
스킨
모듈 스킨 (37)
위젯 스킨 (35)
위젯 스타일 (15)
레이아웃 스킨 (85)
에디터 스타일 (1)
textyle
Newest
Download
Popular
[모듈] Textyle ver. 1.3.1
XpressEngine 기반의 전문 블로거 툴인 텍스타일 모듈입니다. 텍스타일은 글감의 수집과 관리 그리고 글감을 통한 단락 편집등 특화된 기능을 제공하는 블로그툴입니다. XE의 가상 사이트 기반...
8.2/21
Recent Update Jul 21, 2010 14:37
Download Count : 34,882
Install
[모듈 스킨] [텍스타일스킨] criuce simple ver. 0.1
심플하고 깔끔한 스타일의 textyle 스킨입니다.
8.7/3
Recent Update Feb 26, 2010 15:13
Download Count : 2,203
Install
[모듈 스킨] Textyle - Emplode Skin ver. 0.6
심플하고 세련된 느낌의 Emplode 레이아웃을 텍스타일용 스킨으로 제작하였습니다
9.6/10
Recent Update Feb 13, 2010 16:19
Download Count : 3,486
Install

5. Creating Websites

This chapter describes how to create websites by installing various additional features. While XE enables you to create various types of websites, this chapter only describes how to create basic websites and Cafe and blog type websites.

5.1 Creating a Basic Website

This section covers how to create a simple and basic website to display three boards, menus linked with each board and the latest posts on the main page.

The complete website that will be created in this section is shown in the figure below.

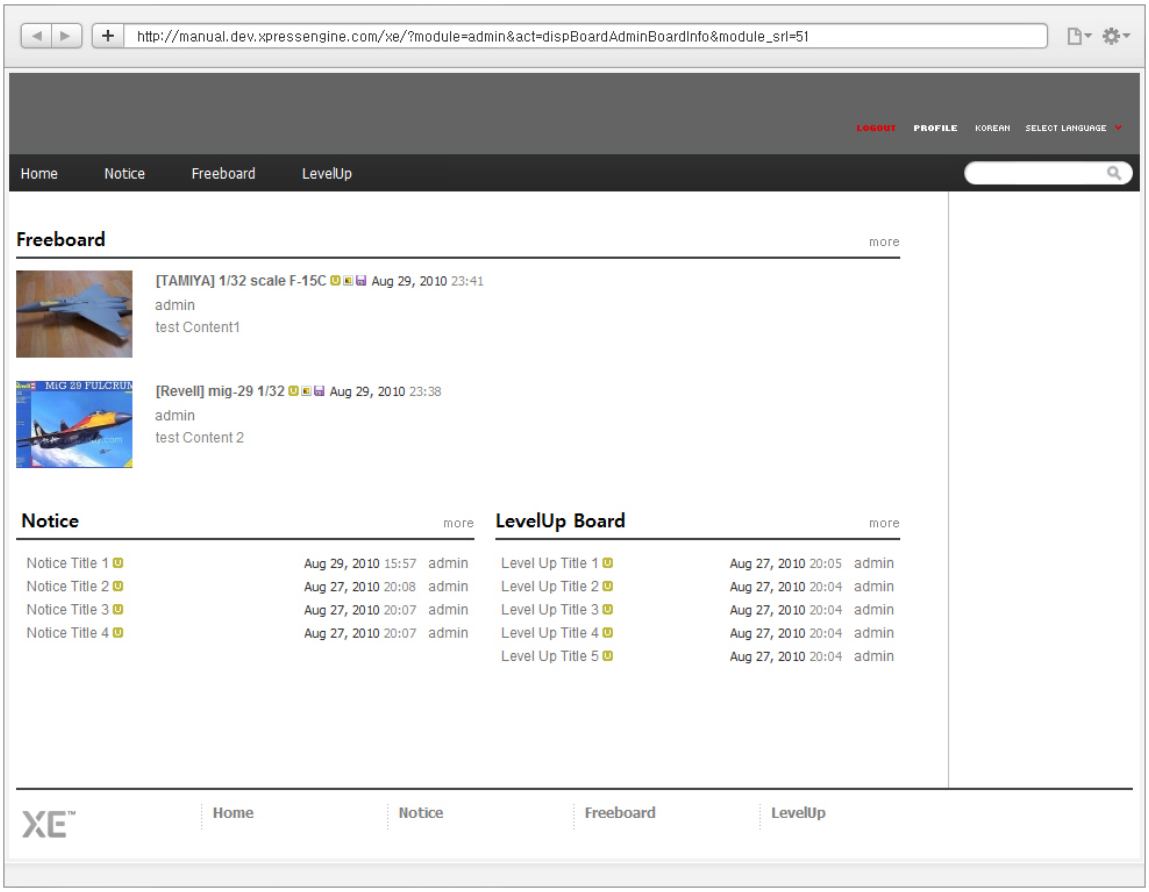


Figure 5-1 Basic Website

5.1.1 Installing Additional Features

Installing a Layout

Install a layout module before creating a website.

1. Move to EasyInstall window by clicking **EasyInstall** at the top left of the XE Admin Page.
2. From the layout skins, search for 'XE official Ver2,' and click **Install** at the right side.

> **Note**
>
> You can also install additional features by uploading source files with no use of EasyInstall. For more information, see the example "Installing Additional Features by Uploading Source Files."

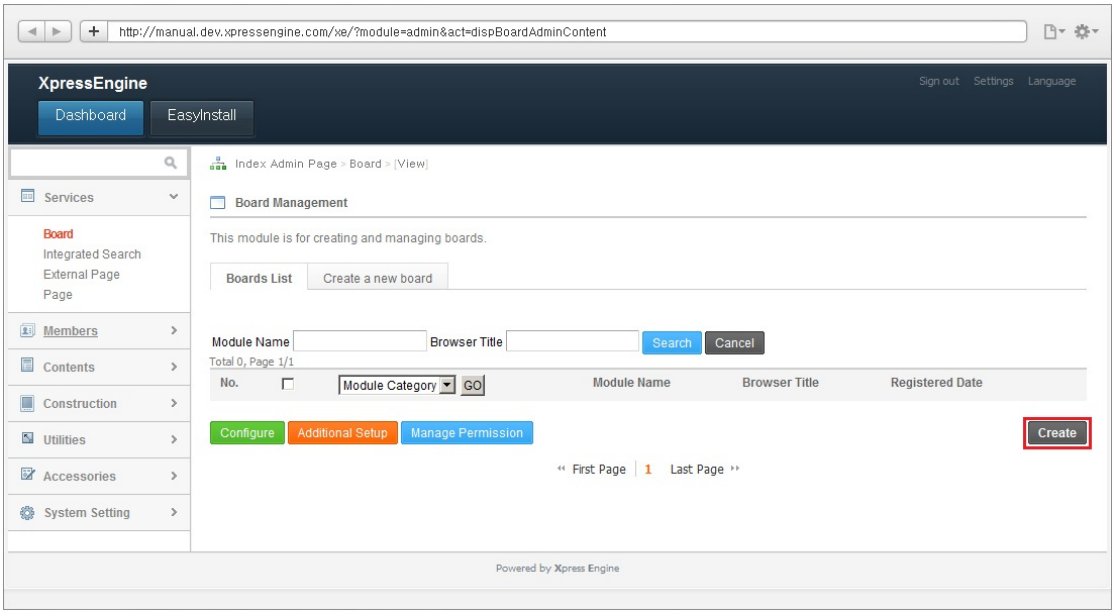
Installing a Board Module

Install the board module. For more information on installing modules, see "How to Install Additional Features."

5.1.2 Creating Boards

Let's create three boards to be used on this website. Each board is referred to as Freeboard, Notice and LevelUp Board, respectively.

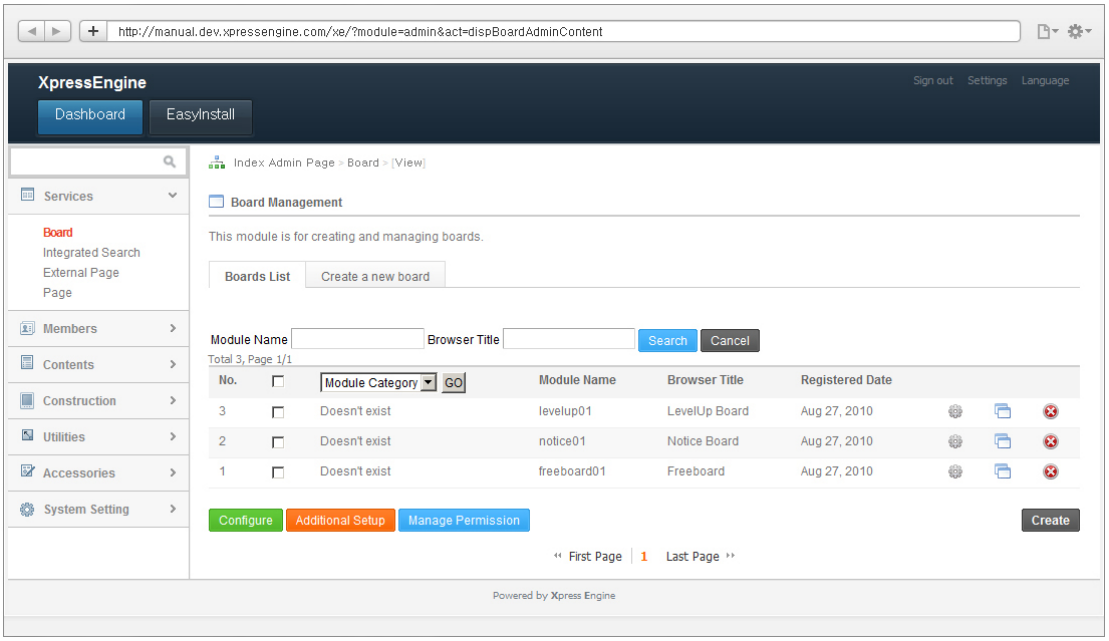
1. Click **Service > Board** from the menu in the XE Admin Page.
2. Click **Create** at the bottom right of the **Boards List** tab in the **Board Management** window.



3. If the window to create a board appears, enter *freeboard01* for **Module Name** and *Freeboard* for **Browser Title**, and then click **Submit**.
   - Module name: A name used to access the relevant module. The name may contain letters and numerals, but it must start with a letter. In addition, the name must not duplicate the name of another board or page. Since the module name is the name of the page to be displayed in the address bar of a web browser, you must use alphabets and numbers only.
   - Browser title: Character string to be displayed as the window title of a web browser when getting access to the corresponding board. You can use foreign language characters and special symbols too for the browser title.

   You can see that the window is converted into the **Boards List** tab and **Freeboard** has been added to the list.
4. Create the remaining two boards in the same order as the above procedure.
   - Notice Board: Set **Module Name** to *notice01* and **Browser Title** to *Notice Board*, respectively.
   - LevelUp Board: Set **Module Name** to *levelup01* and **Browser Title** to *LevelUp Board*, respectively.

You can see that the three boards have been created in the **Boards List** as shown in the figure below.

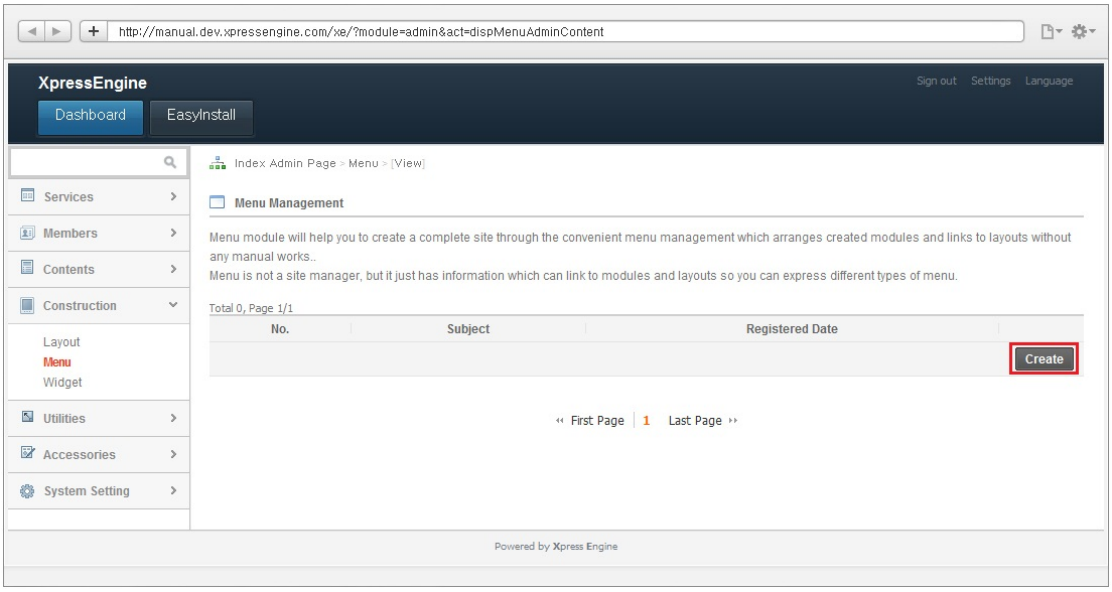


5.1.3 Creating Menus

To access the created boards, menus connected with them are required. If not, you must directly enter the module names of each board into the address bar of a web browser to access the boards.

This section describes how to create menus to move between Homepage and boards.

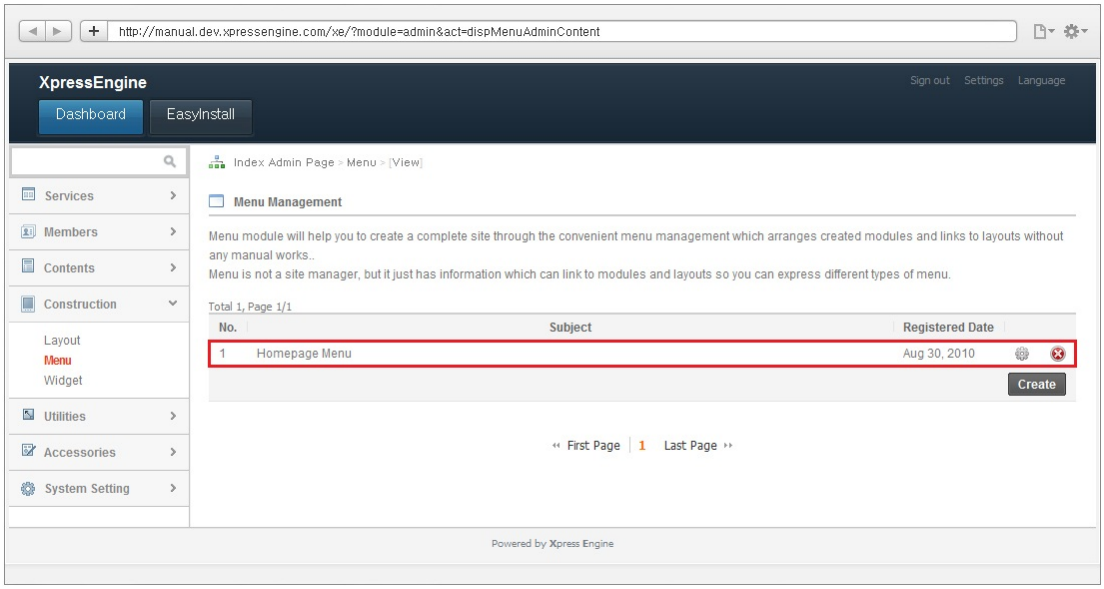
1. Select **Construction > Menu** in the XE Admin Page.
2. When the **Menu Management** window appears, click **Create** at the bottom right of the window.



3. Enter *Homepage Menu* in the **Title** field in the menu information entry window, and click **Submit** at the bottom right of the window.

> **Note**
>
> This menu will be connected to the layout to be created in the next section. You must select the menu to be used for the relevant layout among all website menus created in **Layout**. Therefore, it is recommended to use a meaningful title.

4. Check whether the created menu has been added to the menu list as shown in the figure below.

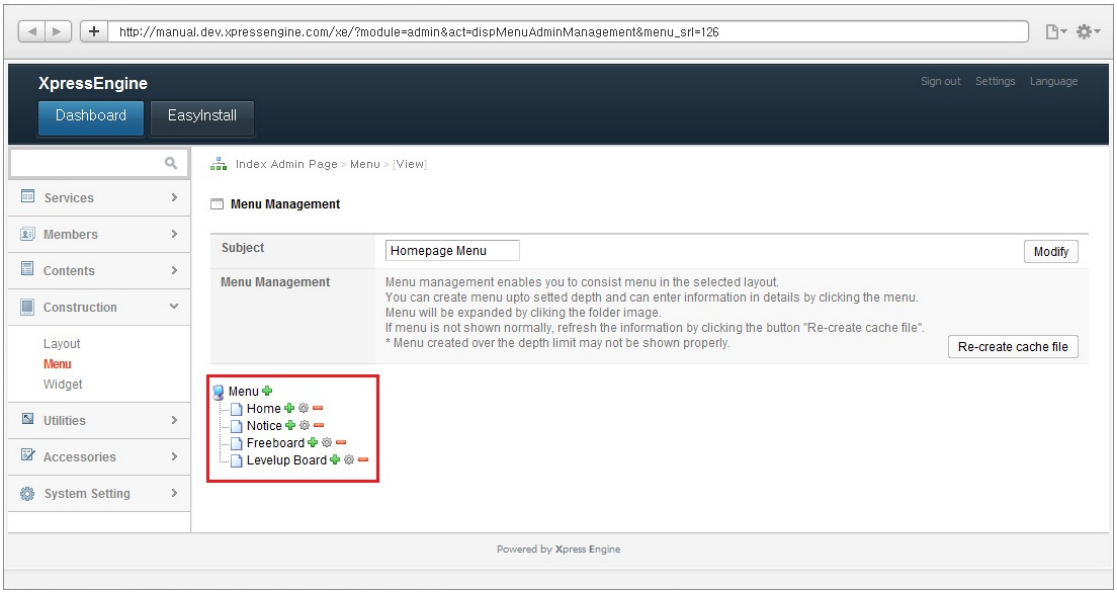


5. Next, you must connect the created menu to contents pages (in this example, the boards and main page). In the above list window, click the Setting icon ( ) at the right side of **Registered Date**.
6. Click Insert ( ) to add a sub-menu to the created menu in the Set Menu window.
7. When the Menu window appears, enter *Home* for **Menu Name**, and click **Save**.

   This is the process used to add the Home menu integrating with the main page to be created in "Creating a Page." You can optionally enter items other than **Menu Name**.
8. Click Insert ( ), enter the menu name below and click **Save** at the bottom right.
   - Menu Name: Freeboard
   - Menu URL: Click **Search mid** and select **Freeboard** created in "Creating Boards."
9. In the same way, add the menus for Notice and LevelUp Board. The menus to move among three boards and the main page are completed.

> **Note**
>
> If you do not know the module name (mid) to connect to a menu, click **Search mid**. You can check all module objects created in the website.
> Since the **Home** menu is not connected with any module name (mid), there is no operation even when you click the corresponding menu. The contents to connect with the **Home** menu are created in "Creating a Page."

When the menus to be connected with each piece of content are completely created, you can see the following figure:

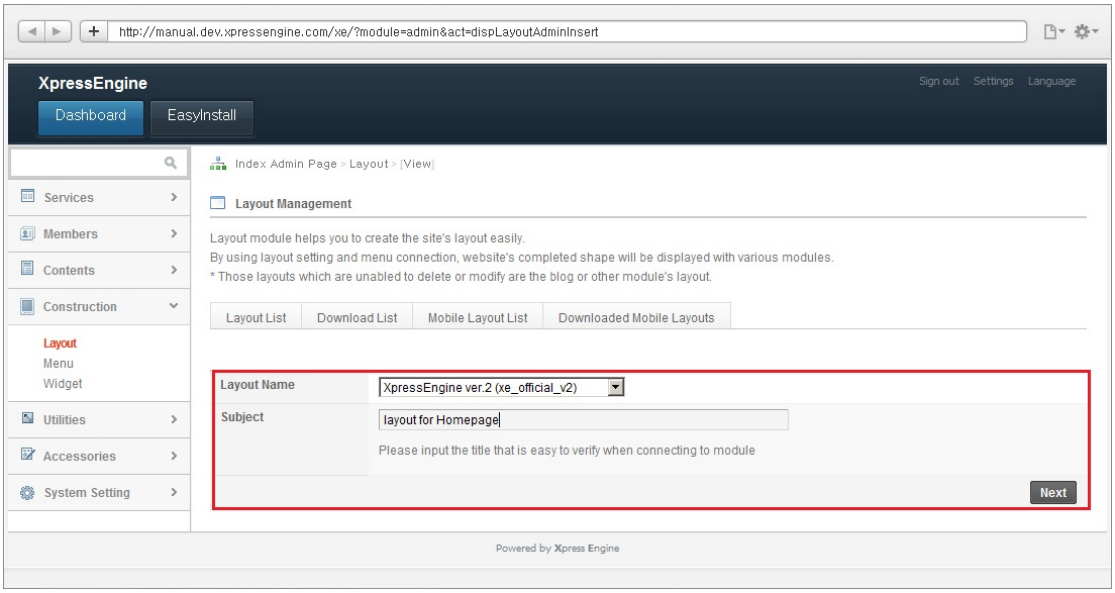


5.1.4 Creating a Layout

After creating boards and menus, you need a layout to display them in the screen. Create layouts in "Installing a Layout", and integrate them with menus.

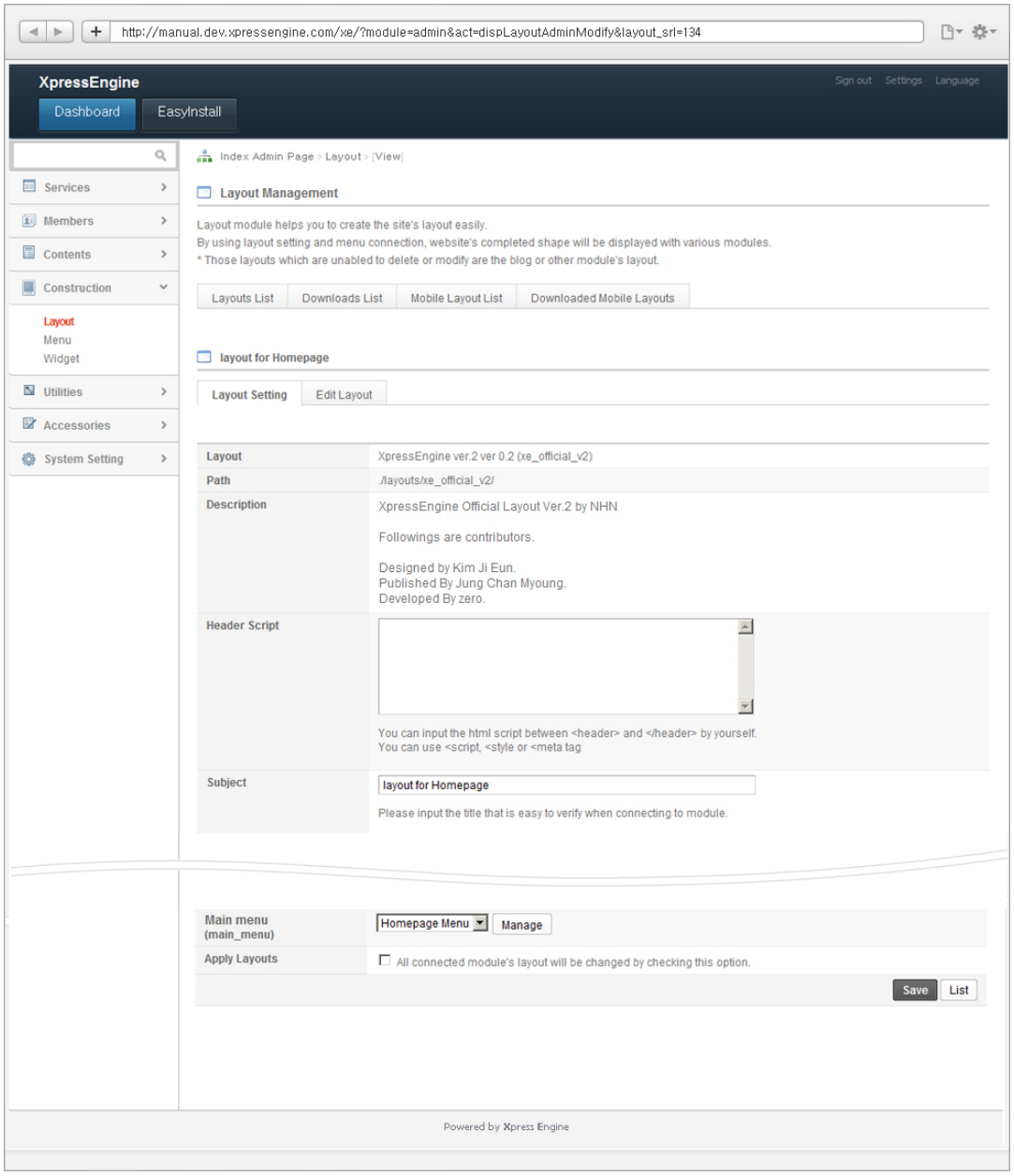
When creating XE layouts, you provide diverse screen effects by changing various settings. The procedure used to create layouts is as follows:

1. Select **Construction > Layout** in the XE Admin Page.
2. Click **Create** at the bottom right of the **Layout List** tab.
3. Set the following items in the **Layout Management** window, and click **Next** at the bottom right of the window.
   - Layout Name: XpressEngine ver.2 (xe_official_v2)
   - Subject: layout for Homepage

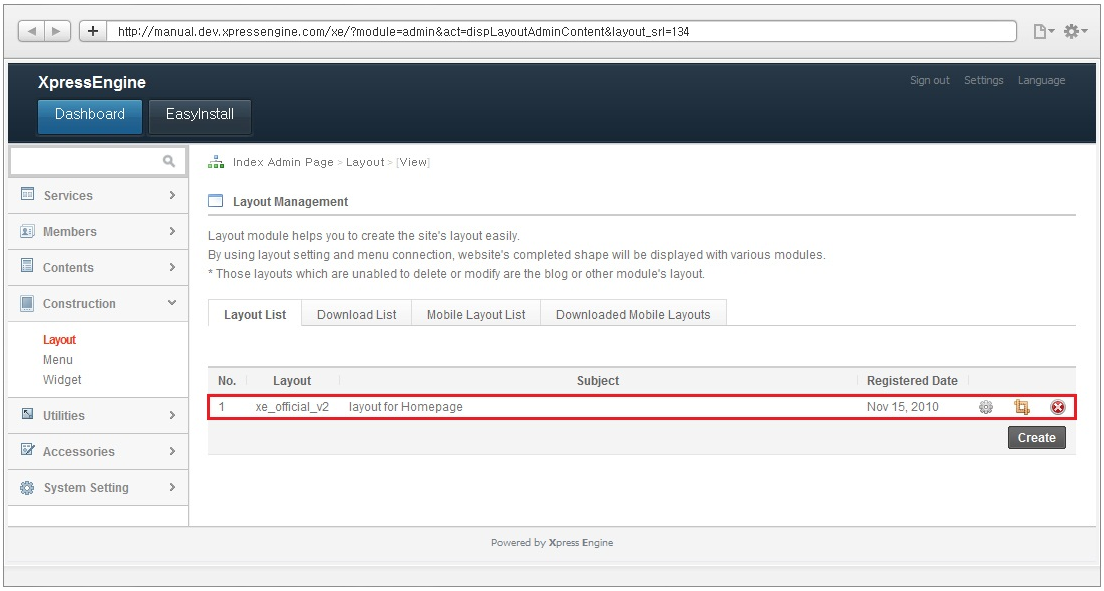


4. Select **Homepage Menu** from the **Main menu** in the **Layout Setting**, and click **Save** at the bottom right of the window.

You can enter various settings in the Layout Setting tab, but this example only connects with the menus created in "Creating Menus" and other attributes are not changed.



5. Check whether the 'layout for Homepage' has been added to the layout list as shown in the figure below.



Since the layout has been created, set the layout to the three boards previously created.

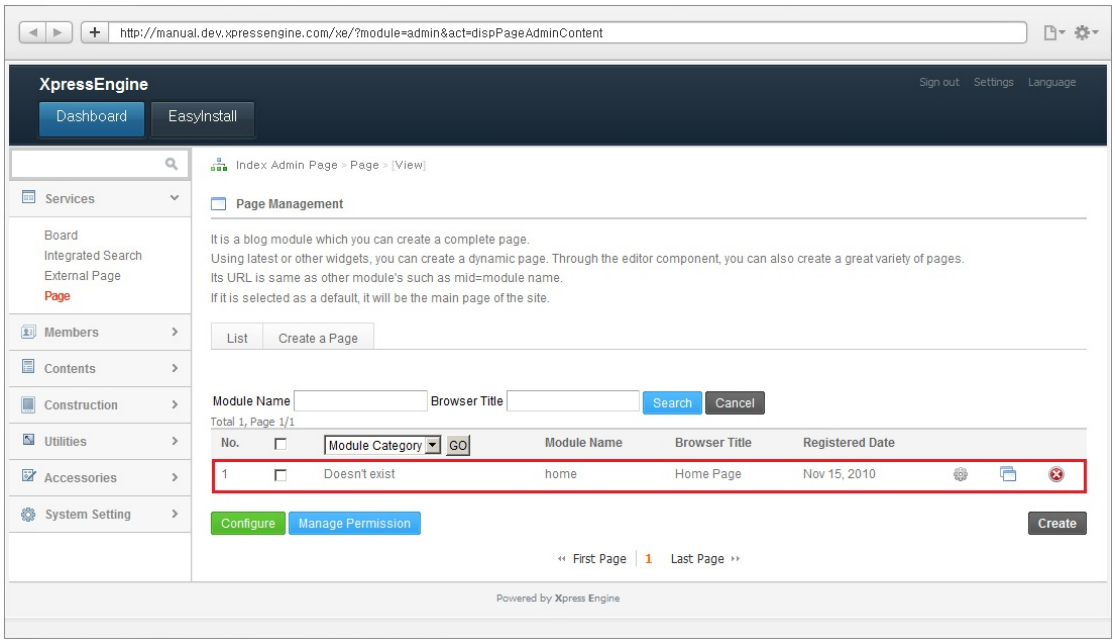
6. Select **Services > Board** from the XE Admin Page.
7. Click **Configure** in the LevelUp Board of the **Boards List**.
8. Select **layout for Homepage** from the **Layout** in the **Board Info** window, and click **Submit** at the bottom right of the window.
9. Set the other two boards in the same way.

Now, you can check the contents of each board through your web browser.

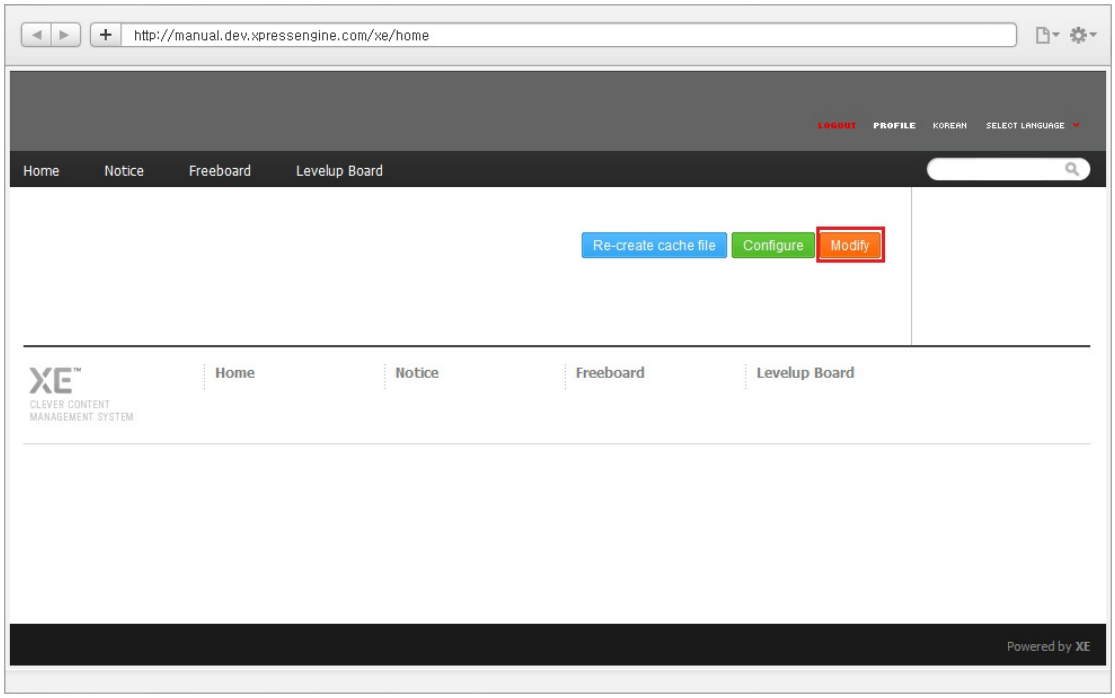
5.1.5 Creating a Page

This section describes how to create a page to view the latest writings in each board. This page will also be used as the main page of the website to be built later. The procedure used to create the page is as follows:

1. Select **Services > Page** from the XE Admin Page.
2. Click **Create** at the bottom right of the **List** tab.
3. Enter the **Module Name** and **Browser Title**, which are the required attributes, in the **Create a Page** window, add the information to be integrated with the layout previously created, and click **Save** at the bottom right of the window.
   - Module Name: home
   - Browser Title: Homepage
   - Layout: layout for Homepage
4. After selecting **Services > Page**, check if the page created in the **List** tab has been added.



5. Click the contents of **Browser Title**.
6. If the created page is displayed, click **Modify** at the right side of the window.

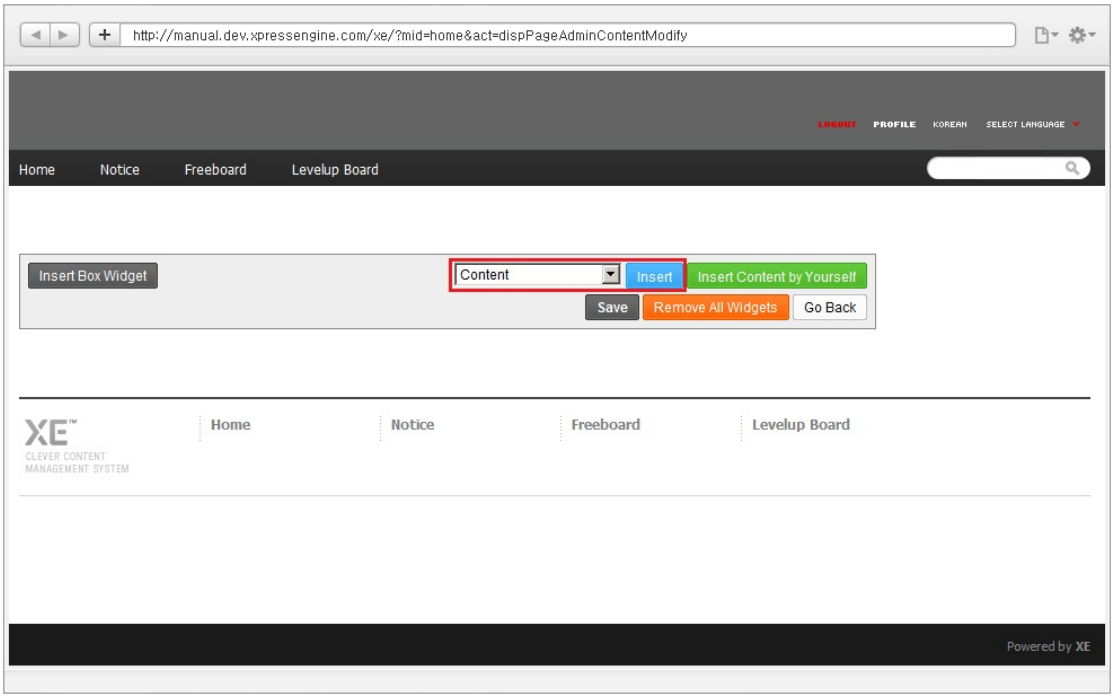


Note

If you access the page with the administrator authority, **Re-create cache file**, **Configure**, **Modify** buttons are displayed to edit or set the contents of the page. If you cannot see these buttons, check whether you are logged in as an administrator.

To display the latest posts on a page, you will need a widget to display contents. At first, let's create widget to display the contents of the Freeboard.

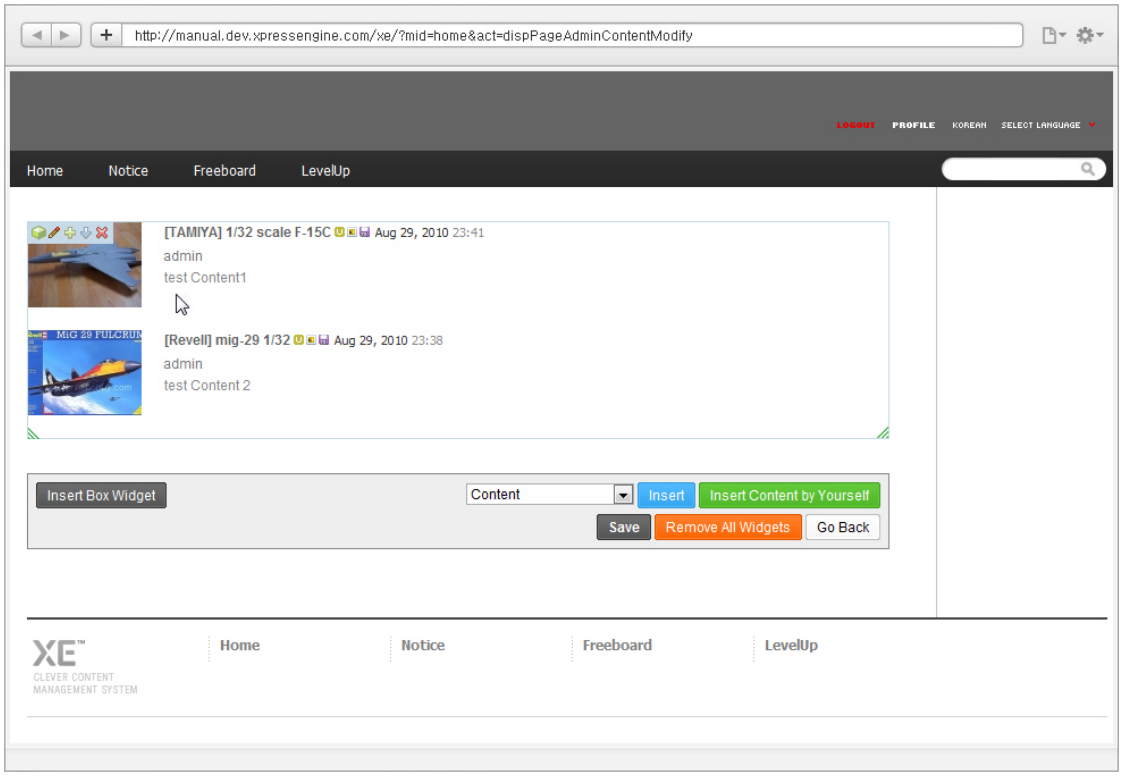
7. If the Modify window appears as shown in the figure below, select **Content** and click **Insert**.



8. When the **Generate Code** window appears, enter the required items and click **Generate Code**.
   - Widget: Content ver 0.1
   - Theme: Content widget default skin (default)
   - Cache: 5 min
   - Target: (Do not change)
   - Content Type: Image + Title + Content
   - Tab Type: None
   - Display Target and Order: title, regdate, nickname, content
   - Display Article Name: No Display
   - Comment Count: Display
   - Trackback: Display
   - Category: Display
   - Icon: Display
   - Target to be sorted: Newest Submitted Order
   - Sorting Type: Descending order
   - Thumbnail Type: Crop
   - Width of Image: 100
   - Height of Image: 75
   - Number of Images: 5
   - Number of Lists: 5
   - Page: 1
   - Duration of indication for new item: 12

- Length of Subject: 0
- Length of Content: 100
- Target Module: Click **Insert**, search for the 'board' in the **Module Selector** popup window and select **Freeboard**.
- HTML Display Type: Table

If the widget has been created, you can see the window as shown in the figure below.



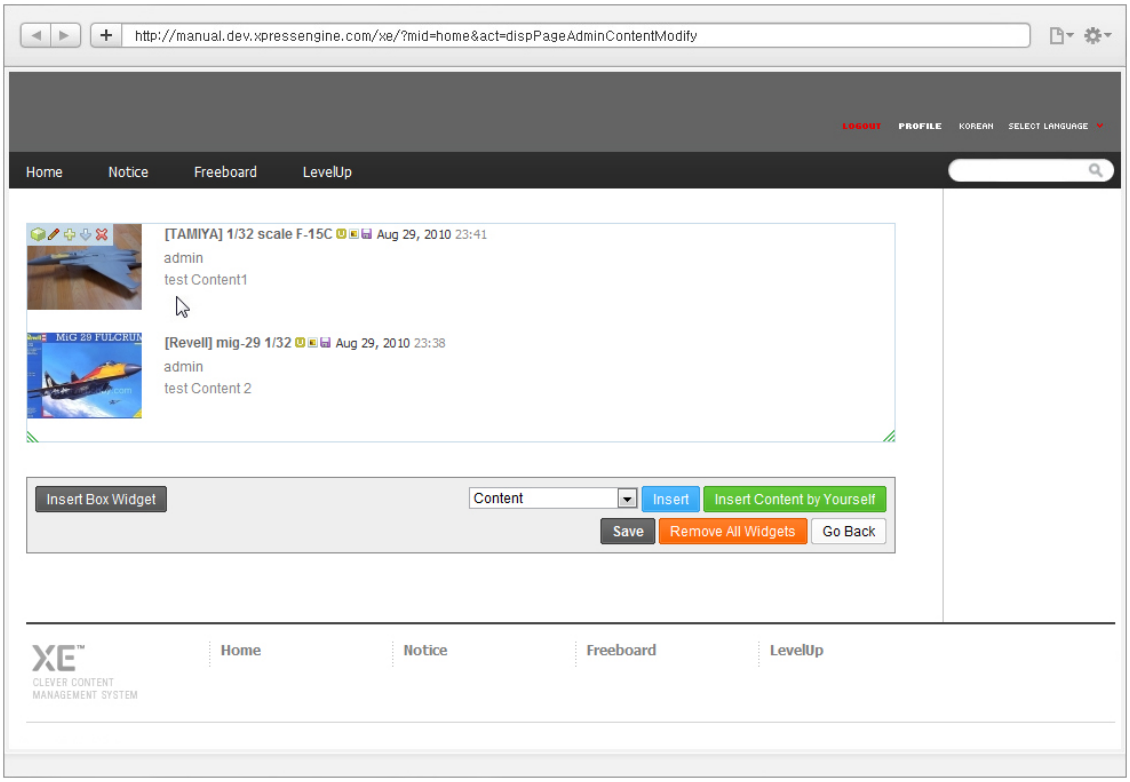
Note

If there is no post on the boards, no contents appears in the widget. To check the contents of the widget, you must write posts on each board for test in advance.

Let's apply a widget style in the upper part of the widget to insert names and links that enable you to move to the boards.

9. Move your mouse cursor over the added widget area, and click the Add Widget Style icon ( ) from the icon menus displayed at the top left of the widget area.
10. If the Widget Style popup window appears, select **Simple Strong** as the widget style to be applied and click **Configure**.
11. If the Configure Widget Style window appears, set as follows:
    - Colorset: White
    - Title: Freeboard
    - more URL: Enter the URL of the corresponding board. Since the module name of the Freeboard is freeboard01, enter http://xeInstallation Path/freeboard01
    - more text: It indicates the text to move to the board integrated with widget. In case of this example, specify as *more*.

12. Check if the widget style is applied to the widget of the Freeboard as shown in the figure below.



13. Create widgets to be connected with the remaining two boards and apply widget styles.

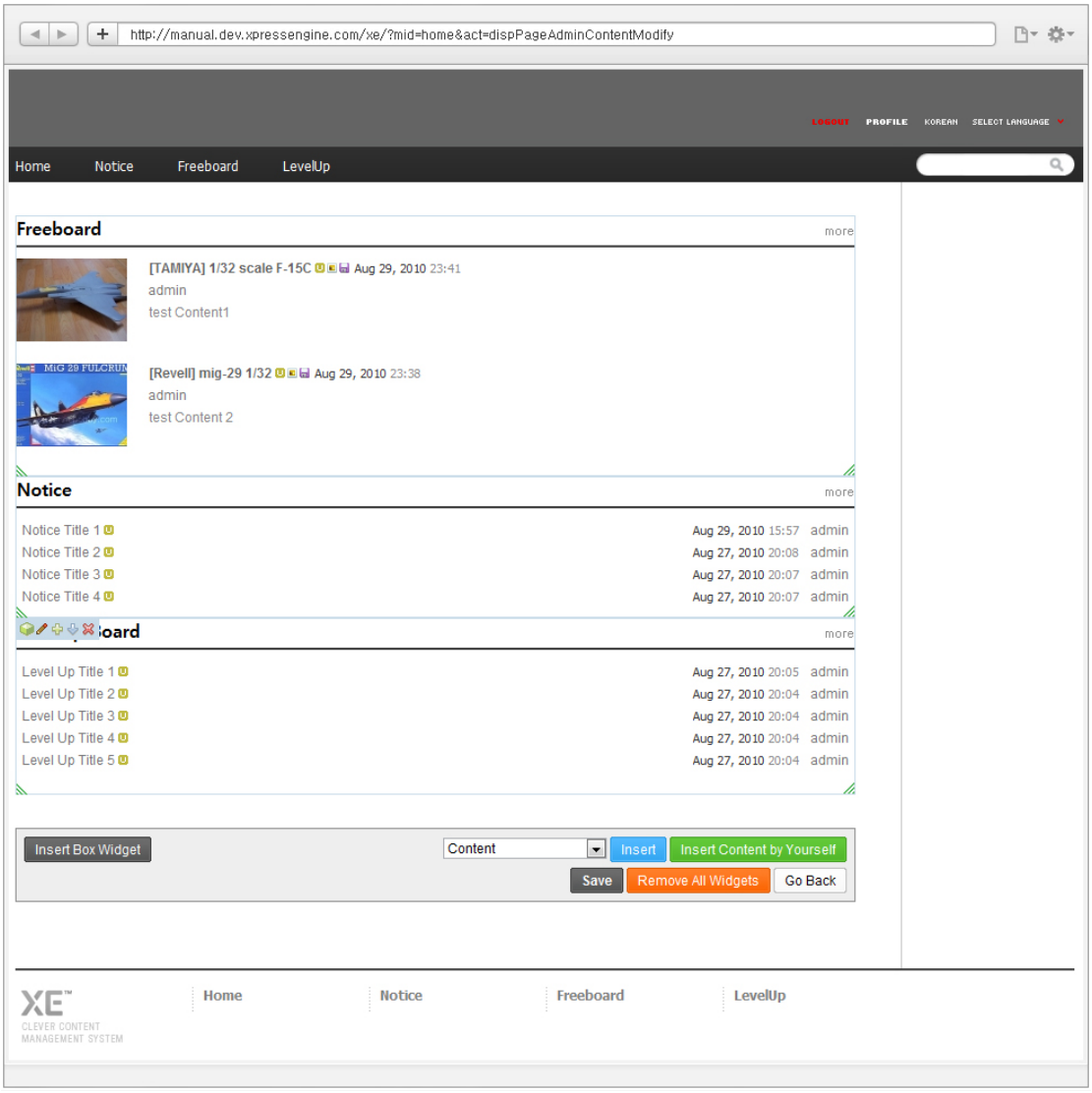
    Since all contents to be entered when creating code for Notice are the same as those entered when creating Freeboard widgets only excluding the setting information below, create the code for Notice referring to the widget creation process for Freeboard.

    - Content Type: Image + Title + Content
    - Display Target and Order: title, regdate, nickname
    - Target Module: Click **Insert** and select **Notice** for **Module** in the **Module Selector** popup window.

    All contents to be entered when creating LevelUp Board code are, also, the same as those entered when creating Freeboard widget only excluding the setting information below.

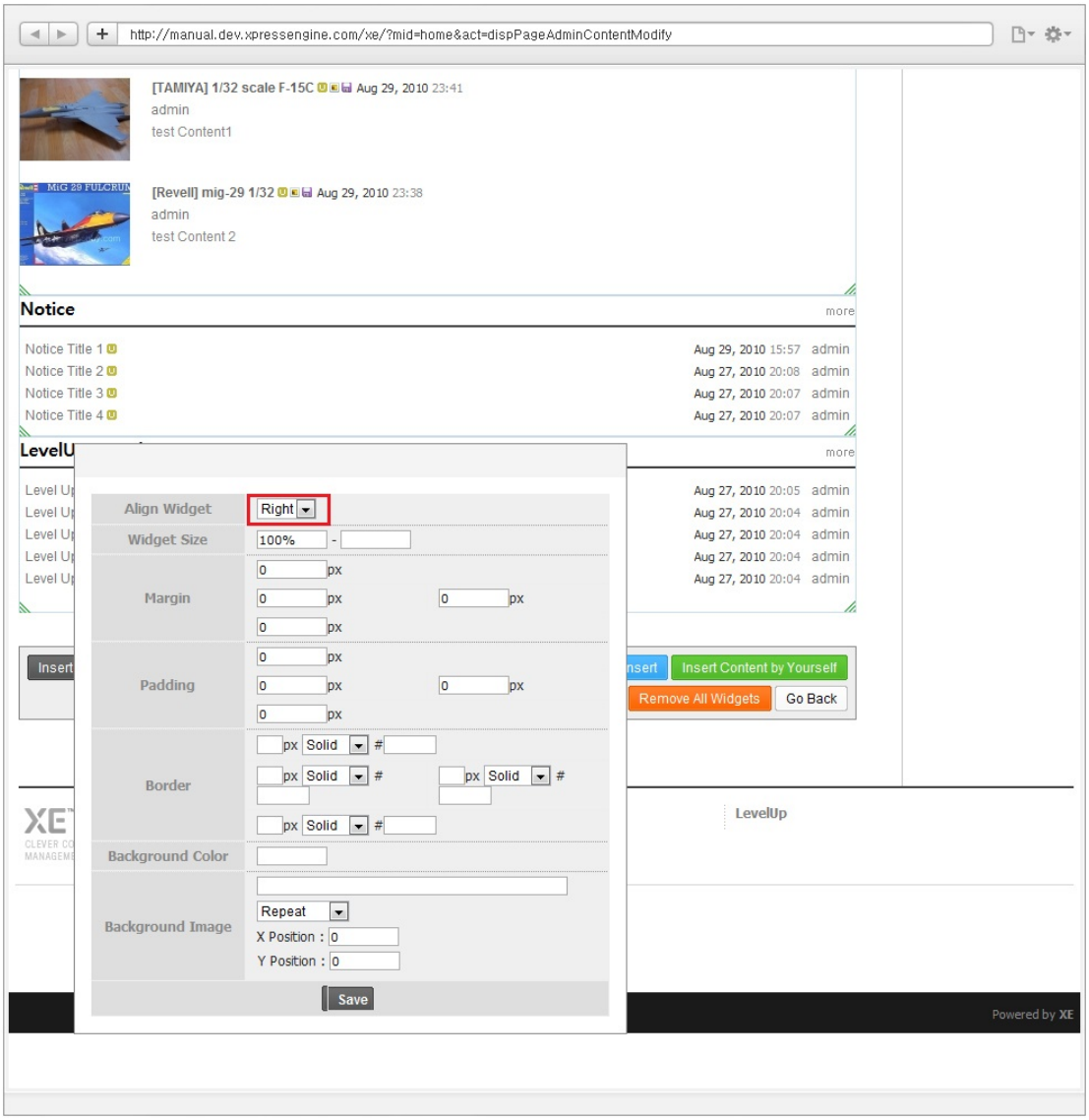
    - Content Type: Image + Title + Content
    - Display Target and Order: title, regdate, nickname
    - Target Module: Click **Insert** and select **LevelUp Board** for **Module** in the **Module Selector** popup window.

14. Check if three widgets are added as shown in the figure below. However, the widget contents may vary depending on the posts.

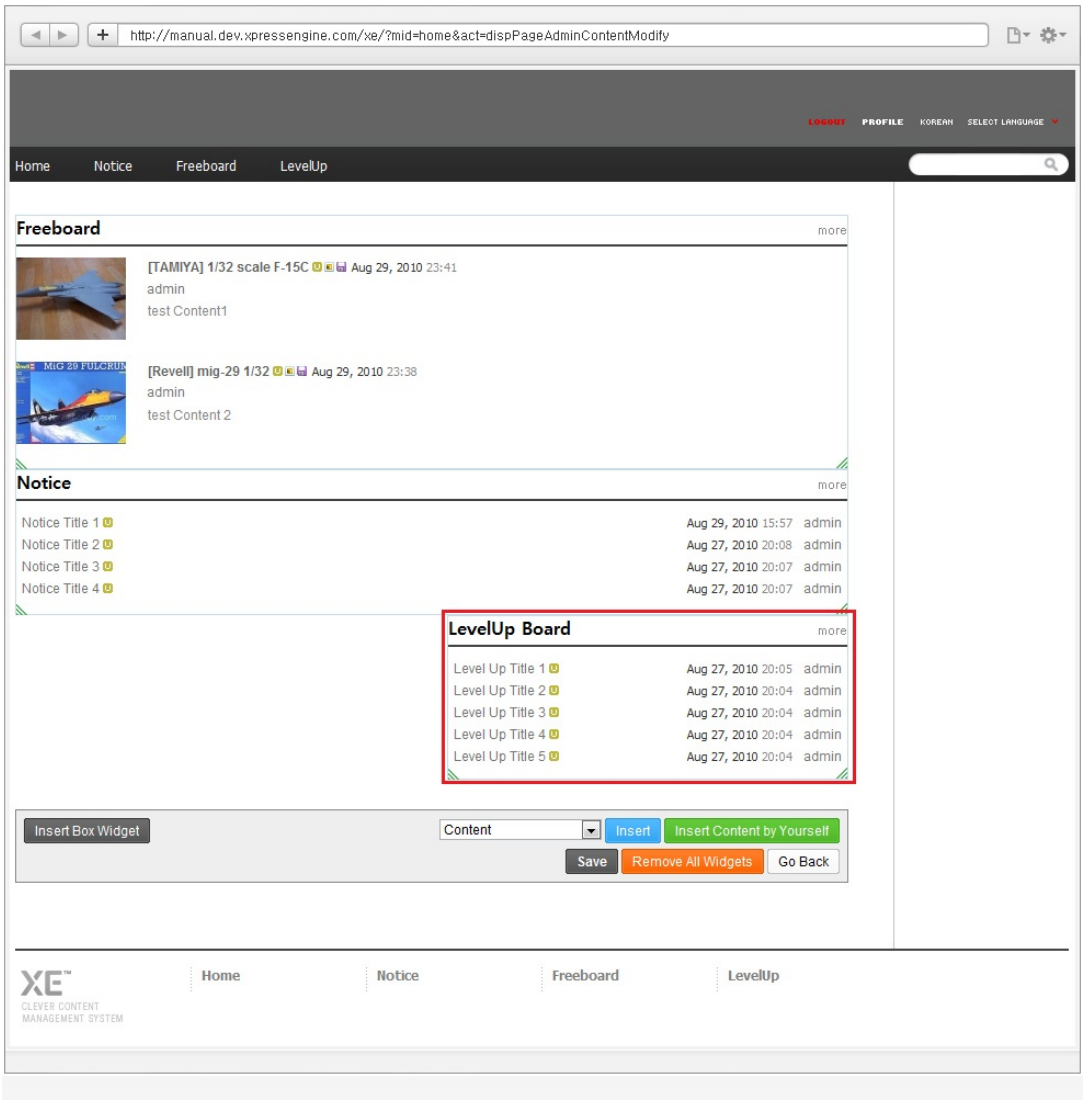


If the widgets are completely created, arrange them again. In this example, leave the widget for Freeboard and arrange the widgets for Notice and LevelUp Board side by side under the widget for Freeboard.

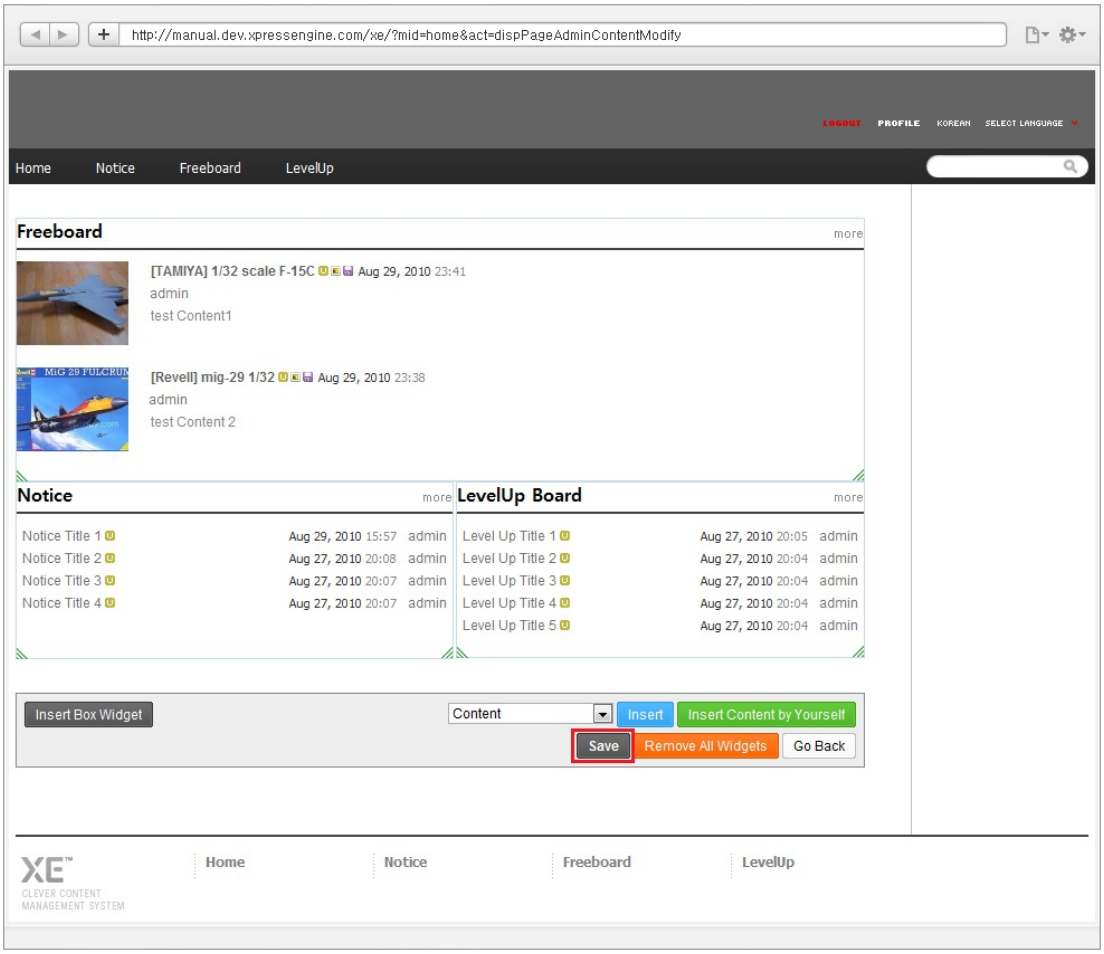
15. Move your mouse cursor over the added widget area, and click Arrow icon ( ) from the icon menus displayed at the top left of the widget area.
16. If the Set Widget window appears as shown in the figure below, change the attribute of **Align Widget** into **Right** to make enough space to place the Notice widget in the left side of the LevelUp Board and click **Save**.



17. Drag the Resize Handle icon ( ) in the lower left of the LevelUp Board and move to the right direction until the horizontal size of the widget is reduced by about 1/2.



18. Drag the Resize Handle icon ( ) in the lower right of the Notice widget to the left direction to reduce its size. If the horizontal width of the Notice widget becomes smaller than the empty space of the left side of the LevelUp Board, they are arranged side by side.
19. If the arrangement is completed as shown in the figure below, click **Save** from the menu at the bottom right.



5.1.6 Connecting the Main Page Menu

Connect the created main page with the menu.

1. Select **Construction > Menu** in the XE Admin Page.
2. Click the Setting icon (⚙) at the right side of the Homepage Menu.
3. Click the Setting icon (⚙) next to the **Home** menu.
4. If the **Menu** window appears, enter *home*, which is the module name of the main page, to **Menu URL** and click **Save**.

5.2 Creating a Cafe Type Website

CafeXE module is used to distribute cafes to members in a website. It enables you to manage administrator and members for each Cafe and operate the cafes by integrating different types of XE modules. If you want to distribute and manage cafes, build your website referring to the description below.

Note

Since you can create virtual websites and distribute Cafe type and blog type websites (see the next section) to desired users, you can build specialized websites.
The virtual website is the feature to use web pages created in XE as separate websites different from the default websites of XE. This feature will give an opportunity to operate virtual websites with settings different from XE default websites.
You can manage the virtual website through separate management pages for each virtual website. In addition, you can hand over the authority for virtual website management page to another user to distribute the virtual website. CafeXE and Textyle create and manage individual Cafes and blogs with this virtual website functionality.

The completed Cafe type website to be created in this section is shown in the figure below.

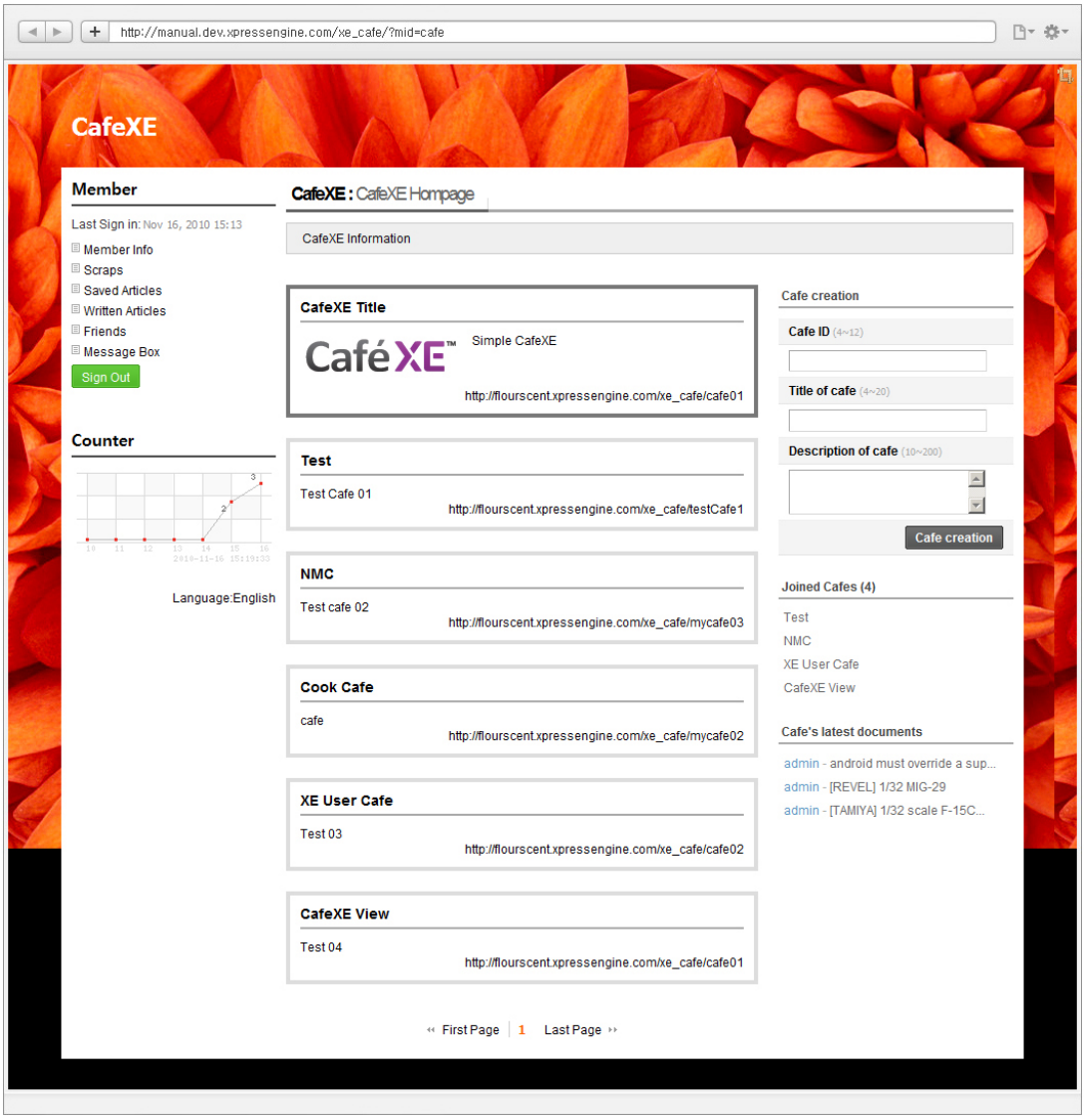


Figure 5-2 Cafe-Type Website Main Page

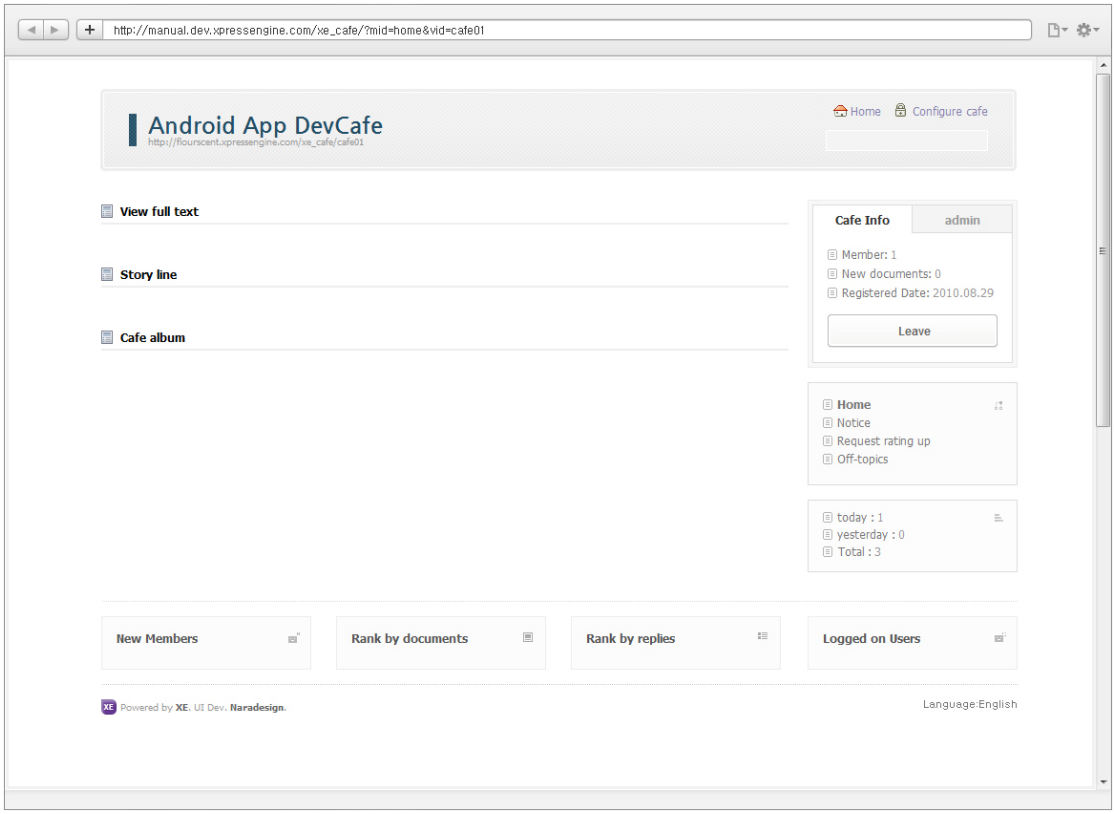


Figure 5-3 Individual Cafe

5.2.1 Installing Additional Features

In this section, you need the following modules, layouts and skins for the construction of a Cafe type website. For more information, see "How to Install Additional Features."

Installing Modules

To build a Cafe type website the following modules are required:

- CafeXE module
- Board module
- Navigator widget
- Image counter widget (image_counter)
- Site information ver. 0.1

Installing Layouts

The following layout and skin are used for the creation of the Cafe type website:

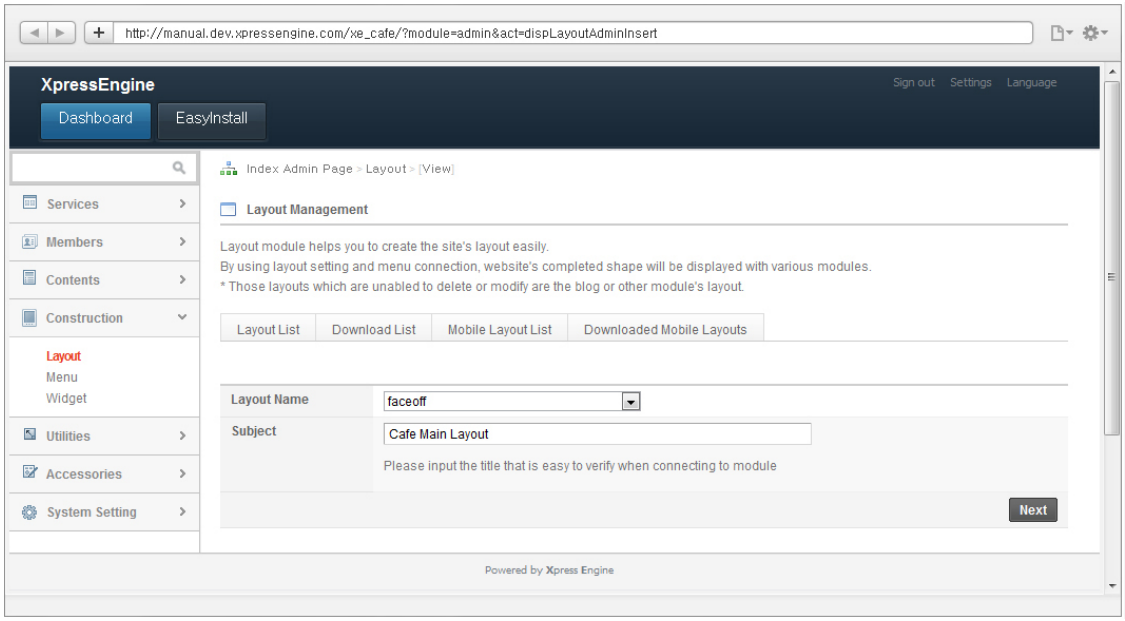
- CafeXE Layout ver.0.1
- Login_info Widget Default Skin ver.0.1

> **Note**
>
> If installing CafeXE through **EasyInstall**, you can use CafeXE more easily because the required programs are automatically installed.

5.2.2 Creating and Setting Layouts

Creating a Layout

1. Click **Construction > Layout** in the XE Admin Page.
2. Click **Create** at the bottom right of the **Layout List** tab and move to the Setting New Layout page.
3. Select **faceoff** from **Layout Name**, enter *Cafe Main Layout* to the **Subject** field and click **Next**. A new layout is created.



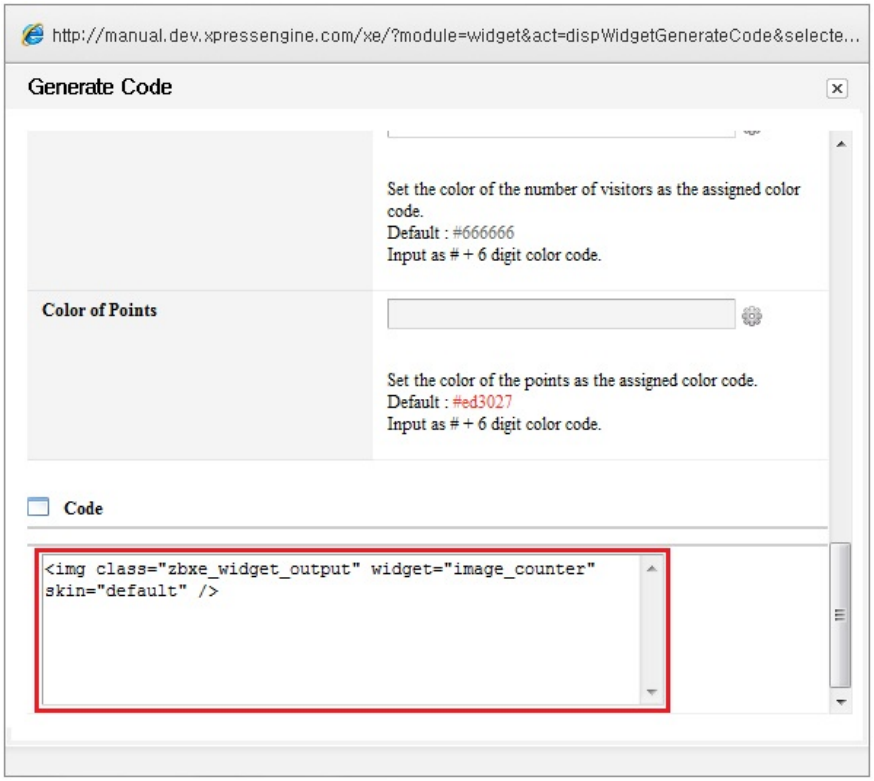
Setting and Editing a Layout (Adding Current User Image Widget)

If a layout is created, you can see newly added layout in the **Layout List** tab. If you want to insert page logo and current visitor status widgets, move to the **Layout Setting** page.

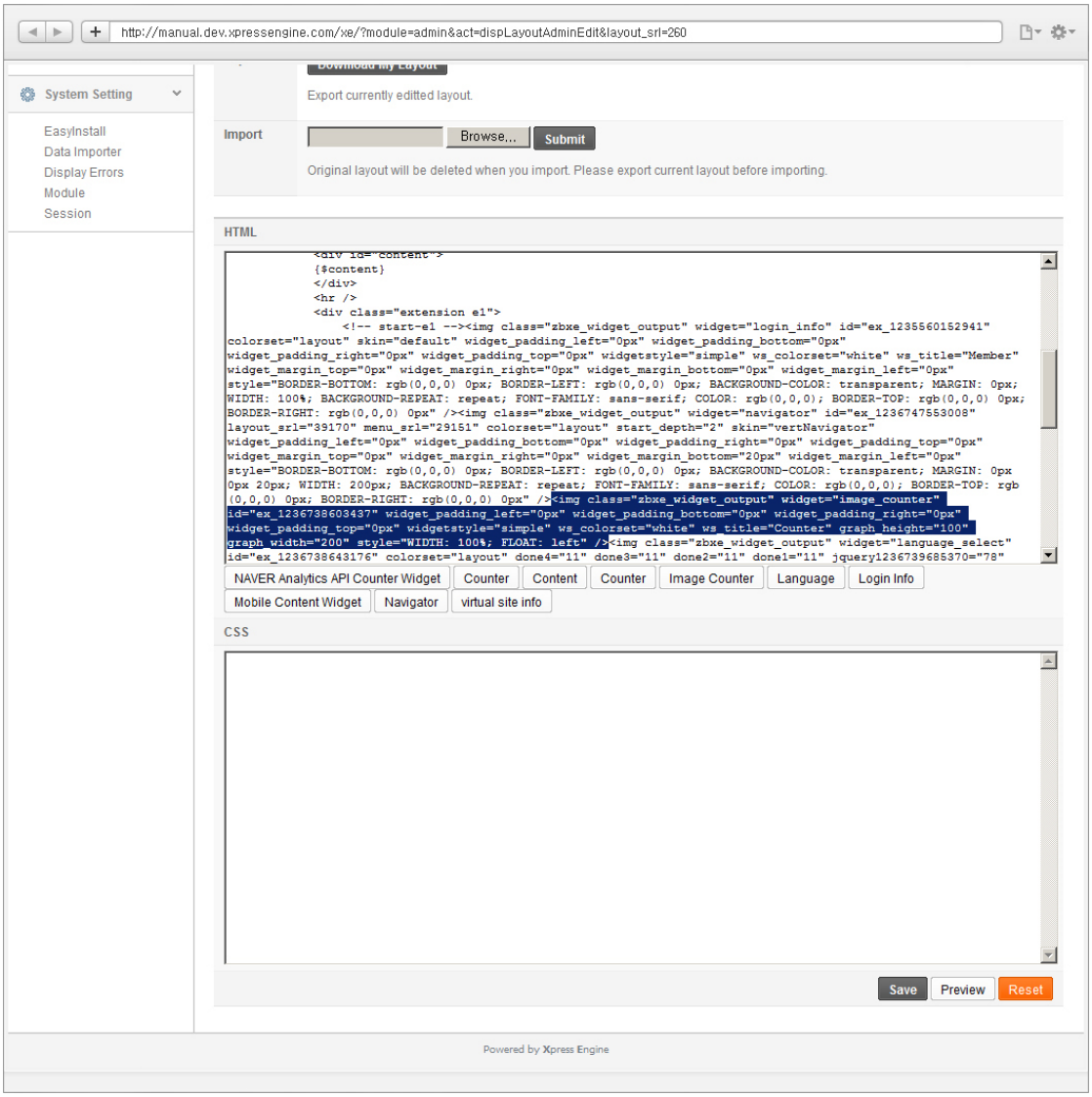
1. Click the Setting icon ( ) at the right side of the layout title created.
2. To display logo contents at the top left of the cafe main page, enter *Introduction to CafeXE* to the **Logo characters** field and click **Save**.

If you want to display the current visitor status, you must add the Image Counter widget to layout.

3. Click **Image Counter** widget of available widget list buttons displayed under the HTML field at the bottom of the **Edit Layout** tab.
4. Set **Theme** to **default** in the **Generate Code** window, and click **Generate Code**.
5. Copy a HTML code to insert the created widget to the **Code** at the bottom of the popup window, and exit the popup window.



6. Search the div tag where 'extension e1 css' is set, paste the copied image counter widget code right above the 'language_select' tag, and click **Save**.



Checking CafeXE Management Menus

You can see **CafeXE** created at the top of the XE Admin Page. Click this button, and the **CafeXE Management** page appears.

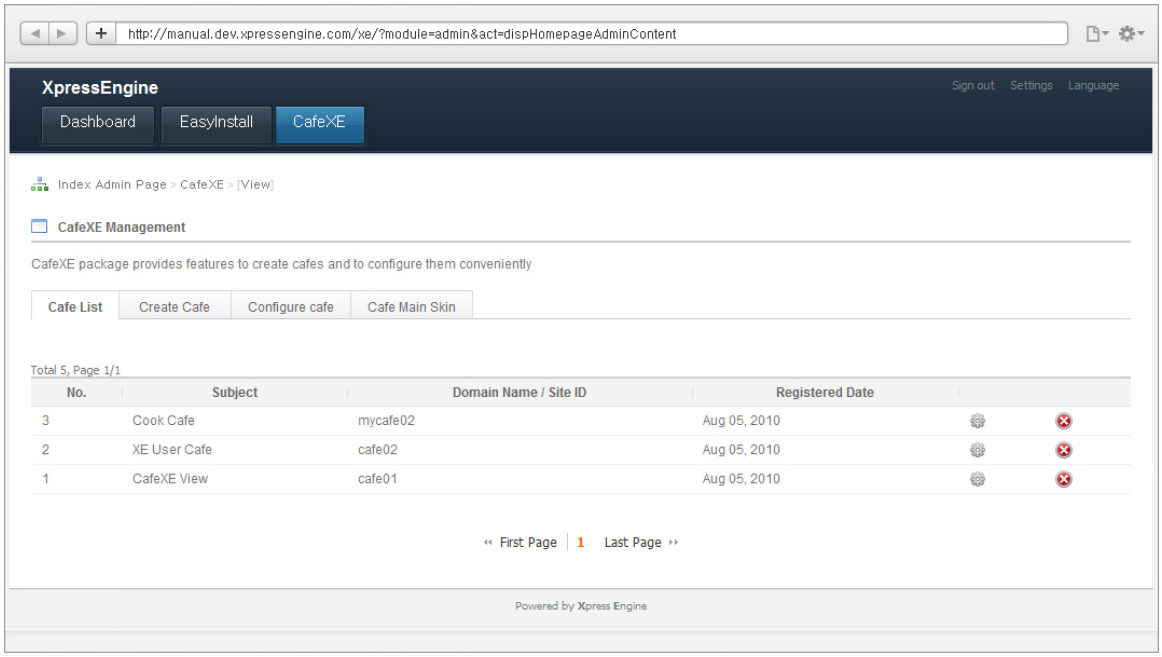


Figure 5-4 Cafe List Managed by CafeXE

The CafeXE Management page is composed of four tabs as follows:

- Cafe List: You can see the list of the created individual cafes.
- Create cafe: You can create new cafes.
- Configure cafe: You can configure the access IDs for Cafe's main screen and manage the settings required for individual Cafe website.
- Cafe Main Skin: You can build the main page screen of CafeXE. This menu is used to enter the title and description of the main page and introduce specific cafes.

5.2.3 Creating a Cafe

1. Move to the **Create cafe** tab from the CafeXE Management page.
2. Create a cafe by setting as follows:
   - Title of cafe: Name of a Cafe to be created. Enter *CafeXE Introduction Cafe*.
   - Access Type: ID to access the corresponding Cafe. Since this example does not use a separate domain, select **With Site ID** and enter *cafe01*.

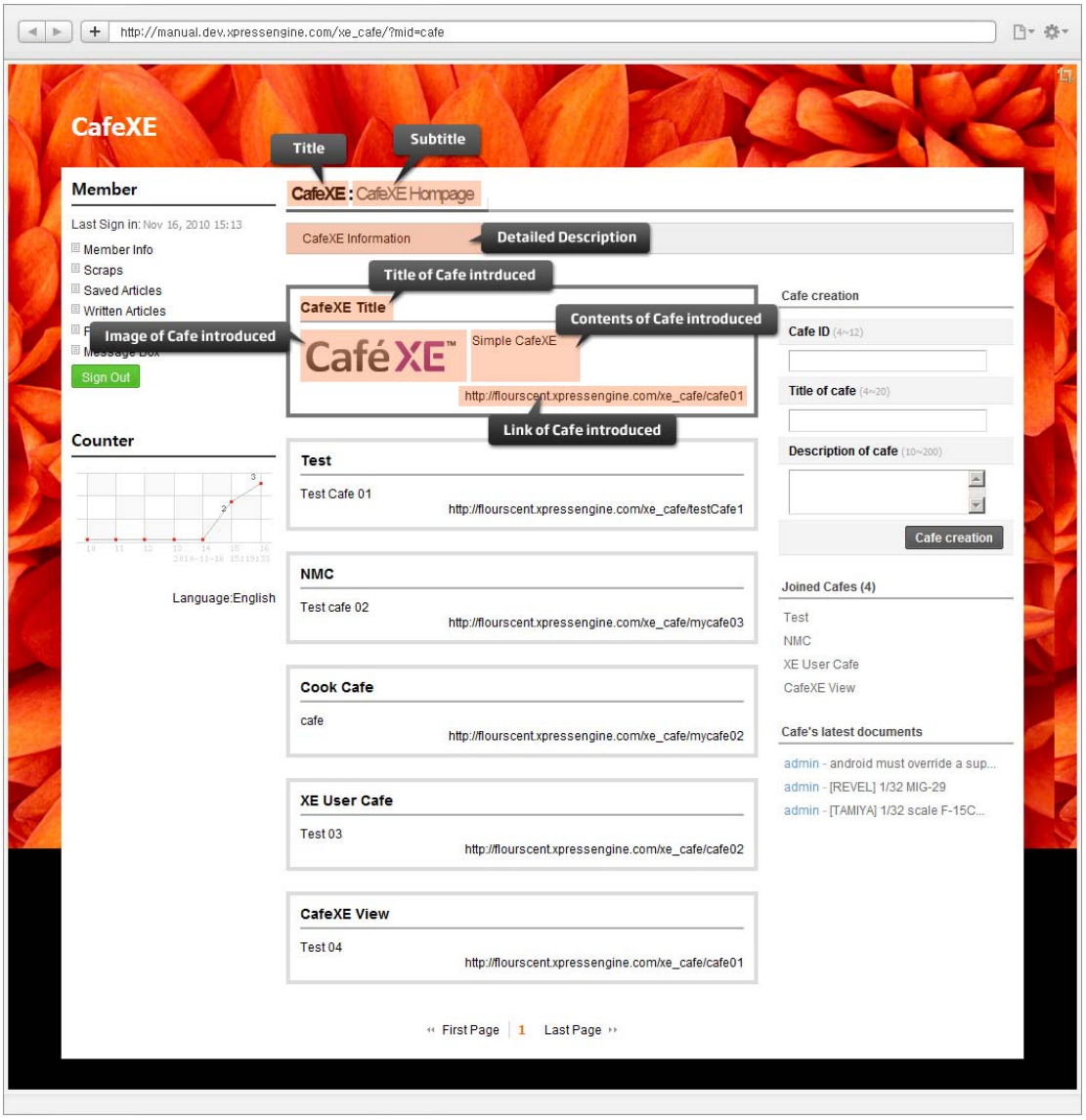
> **Note**
>
> You can access a website in two ways:
> - **With Domain Name** enables you to create and connect with a sub-domain of the domain where XE is installed and use additional domain address in use (example: http://domain.example.com).
> - **With Site ID** enables you to create a mid (module ID) like a separate module that is installed in XE and link it to a sub-page of the current website (example: http://www.example.com/ID). At this time, the mid must not be the same as that of other modules installed in XE.

5.2.4 Configuring a Cafe Main Skin

The procedure used to set a Cafe main skin is as follows:

1. Navigate to the **Cafe Main Skin** tab from the CafeXE Management page.

2. Check the contents for each area in the figure below and enter the contents to be used for the Cafe main page.

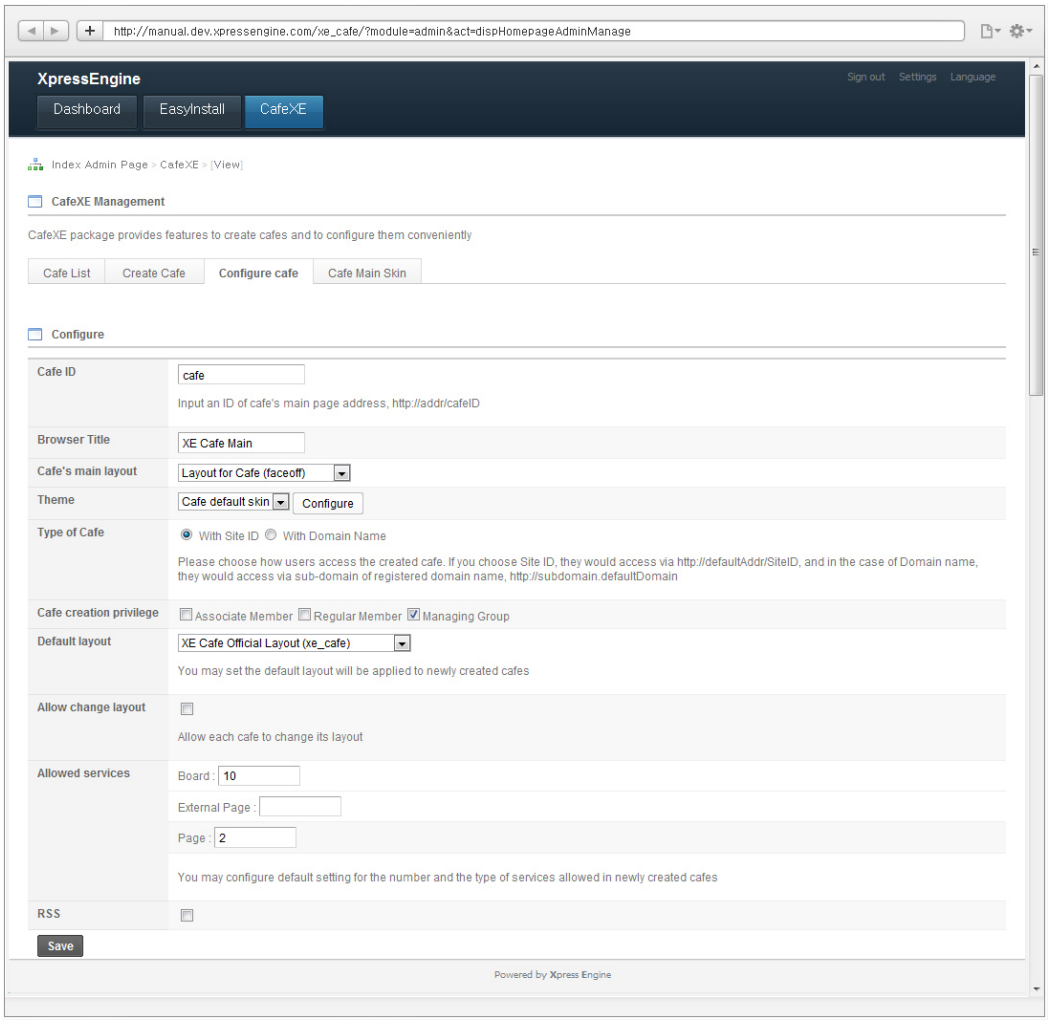


5.2.5 Configuring a Cafe

The procedure used to set a cafe is as follows:

1. From the CafeXE Management page, move to the **Configure cafe** tab.
2. Enter the following information and click **Save** at the bottom of the window.
   - Cafe ID: ID required for connecting the main page. For this example, set the ID of the corresponding module to *cafe*.
   - Browser Title: Text to be displayed on your browser when accessing the main page.
   - Cafe's main layout: Layout to be used for the main page. The list of all created layouts is displayed. Find and select **Cafe Main Layout** previously created.
   - Theme: Skin to be displayed in the text area of the Cafe main page. Select and enter the skin created in "Configuring a Cafe Main Skin."

- Type of Cafe: Select the method to use to access the Cafe main page. For the descriptions about website ID access and Domain ID access, see the Note section in "Creating a Cafe."
- Cafe creation privilege: Authority level for website members to create cafes
- Default layout: A layout to be integrated when the individual cafe is created. Select the previously created *XE Cafe Official Layout*.
- Allow change layout: Once the check box is activated, an individual cafe manager can separately modify his or her own cafe layout.
- Allowed services: You can limit the default service to be used in an individual cafe. If no value is entered in the relevant field, contents can be created without limit. Therefore, it is recommended to specify a value only after sufficient consideration. For this example, enter *10* for **Board** and *2* for **Page**, separately.



5.2.6 CafeXE Main Page

The cafe main page is the page that is the center of several individual cafes created. In other words, it can be considered as the main page in Internet portal service. The cafe main page of CafeXE module shows the list of the currently created cafes and the list of the latest posts registered in each cafe.

However, the most important feature is to provide the passage that the users with Cafe creation privilege can create cafes. To create any cafe, just enter **Cafe ID, Title of cafe,** and **Description of cafe** at the top right of the page.

The procedure used to insert any background to the main page is as follows:

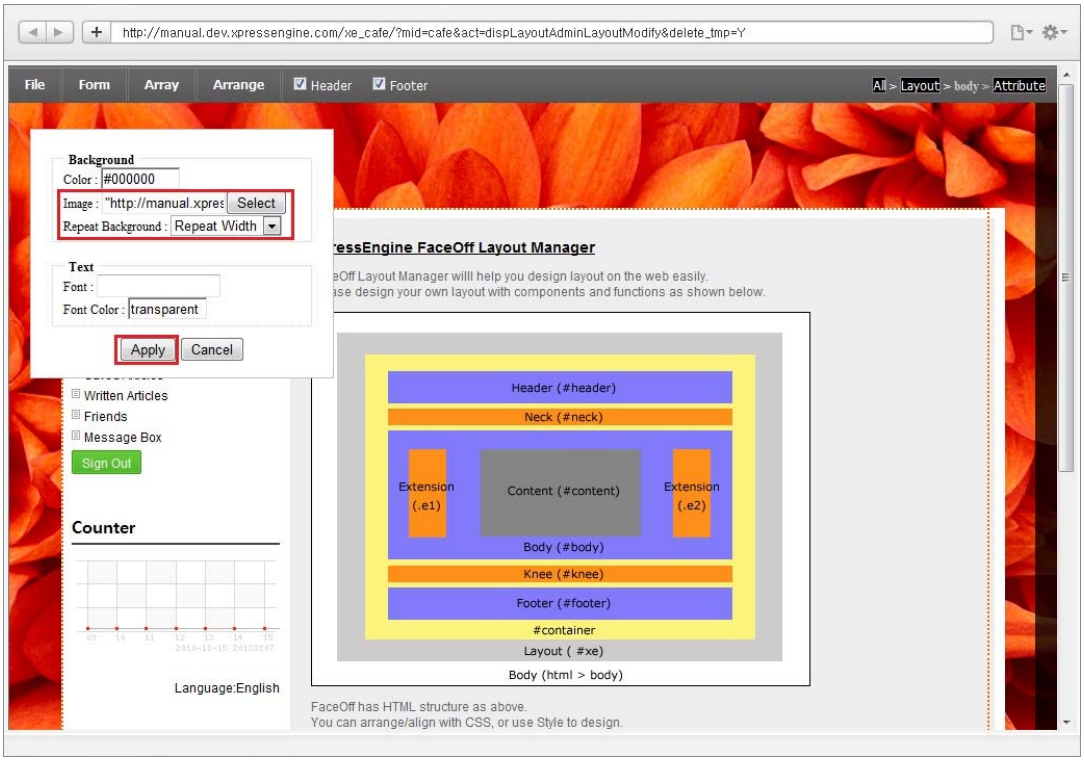
1. Access the main page following the Type of Cafe set out in "Configuring a Cafe."

> **Note**
> When using **With Site ID**, enter http://www.example.com/siteID with mod_rewrite enabled or http://www.example.com/?mid=siteID with mod_rewrite disabled to access to the main page.

   For this example, **faceoff** layout is used. Unlike other layouts, this layout allows you to easily modify design elements into desired types.

2. Click the Edit Layout icon ( ) at the top right of the main page to configure the layout.
3. If the menu bar below appears at the top of the page, click **All** at the right side of the menu bar.

4. After uploading any background image to **Image** in the settings window, specify the **Repeat Background** attribute as **Repeat Width** and click **Apply**.



5.2.7 Managing Individual Cafes

The users with individual cafe management authority can see **Configure cafe** at the top right of individual cafe window. Click this button to move to the management window of each Cafe.

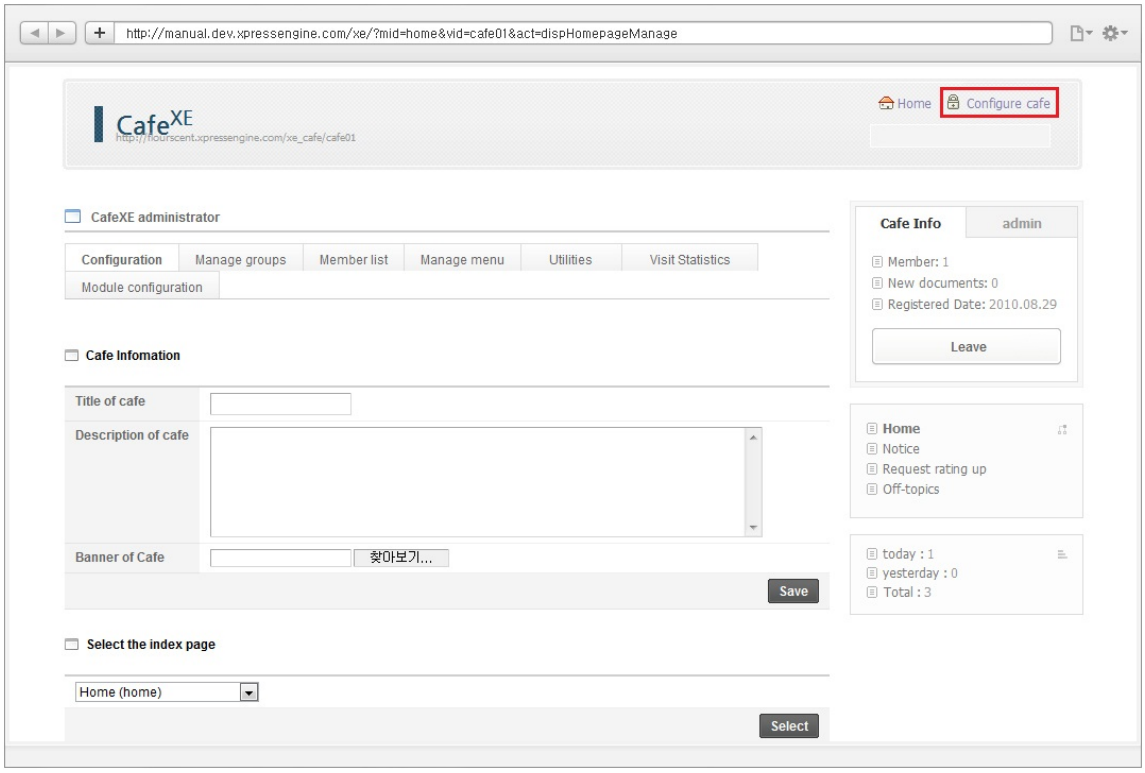


Figure 5-5 Individual Cafe administrator Window

Individual Cafe administrators can set the following items:

- Configuration: Cafe administrators can modify and register Cafe names, descriptions and banner images.
- Manage groups: Cafe administrators can create member groups and set default groups for new members.
- Member list: Cafe administrators can check the current members, change member groups and have members secede from their cafes by deleting the members.
- Manage menu: Cafe administrators can add or remove boards to be used in their Cafe or services such as pages.
- Utilities: Cafe administrators can activate editor components and addons or change settings.
- Visit Statistics: Cafe administrators can view the statistics about their cafe visitors.
- Module configuration: Cafe administrators can change detailed settings about each board and page included in their cafes. In addition, they can exchange cafe boards and pages with different cafes or default websites.

5.3 Creating a Blog Type Website

You can easily build blog type websites by using the Textyle module. The Textyle module performs dedicated blog features in XE. It provides very powerful contents production and publication features, such as Textyle editor and writing material box.

Like CafeXE, Textyle provides the virtual website functionality, so you can create and distribute new Textyles and operate blog communities.

The blog type website to be created in this section is shown in the figure below.

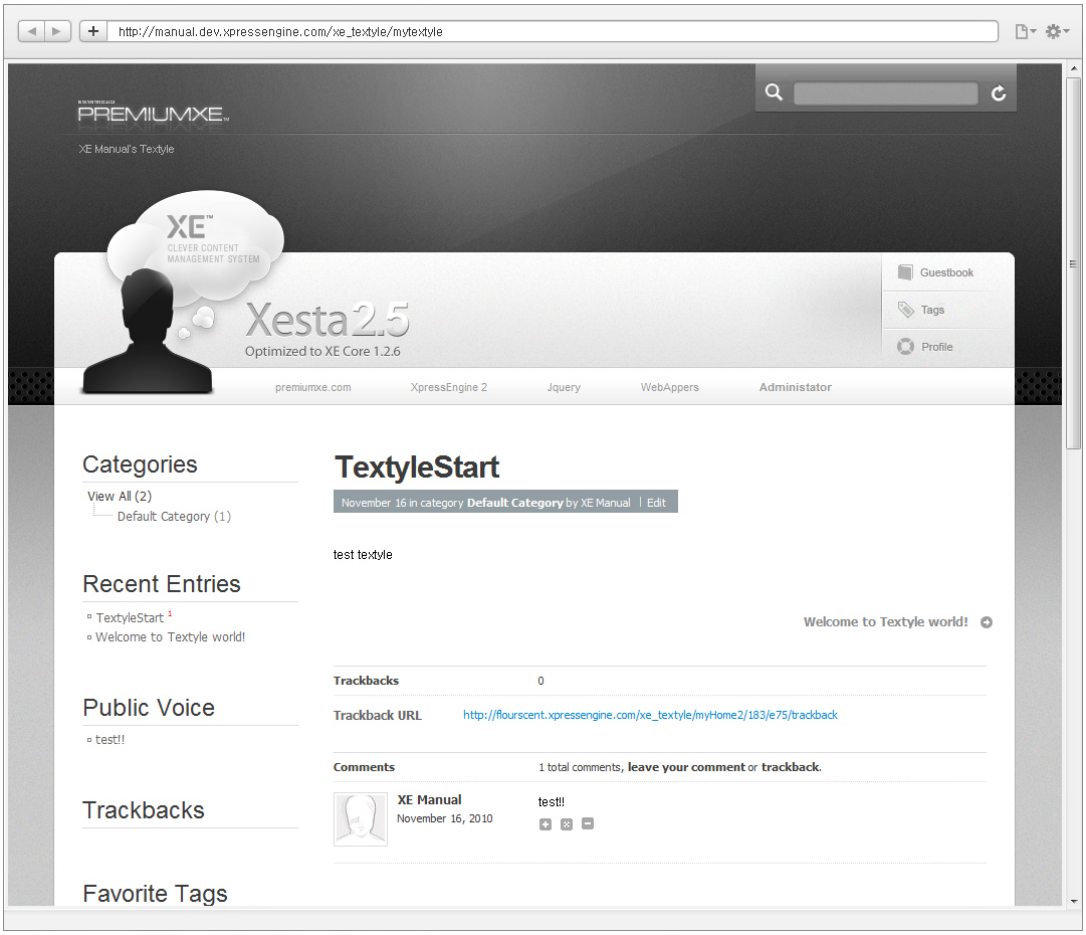


Figure 5-6 The Blog Type Website using Textyle

5.3.1 Installing Additional Features

In this section, you need the following modules, layouts and skins for the construction of a blog type website. Install the following items by referring to "How to Install Additional Features."

Installing Modules

- Textyle module
- Writing Material Module

Installing Widgets

- Tag list
- Category mark

Installing Skins

- Textyle editor

5.3.2 Textyle Management Page

Once you install additional features required, you can see the **Textyle** button at the top left of the XE Admin Page. Click **Textyle** to display the Textyle Management page as shown in the figure below.

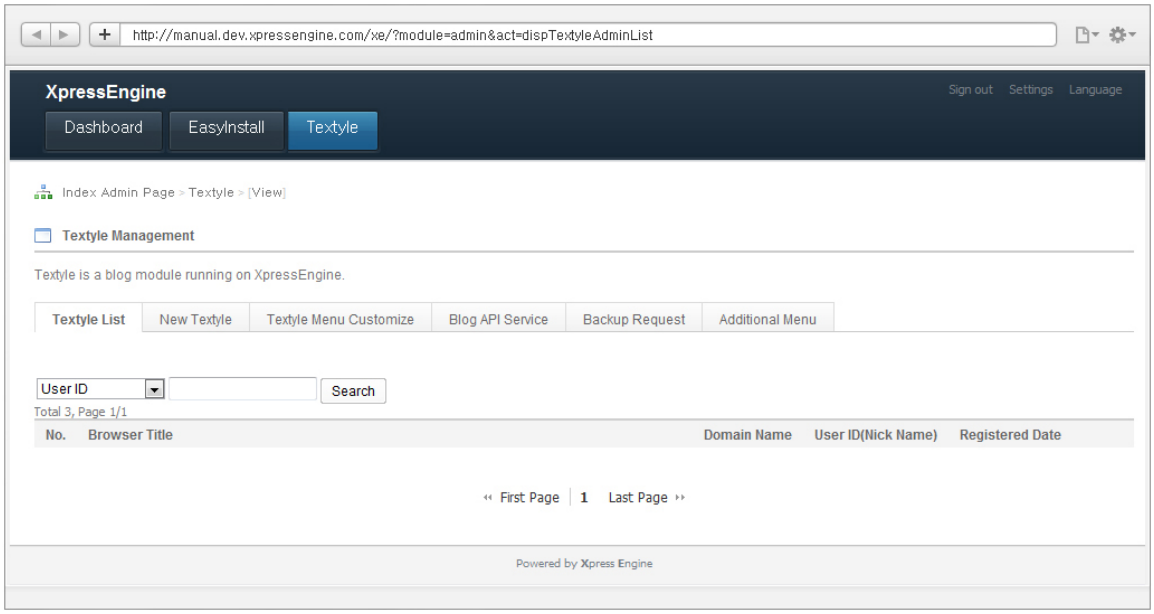


Figure 5-7 Textyle Management Page

The Textyle management menu is composed of six sub-menus.

- Textyle List: You can see the created Textyle list.
- New Textyle: You can create Textyle by entering access method and administrator ID.

> **Note**
>
> You can access the Textyle module in two ways: If you have a domain address in use after installing XE, you can connect the website with the domain or create new URL by adding an ID to the website address. It is recommended to use the second method when adding Textyle to your website in use.

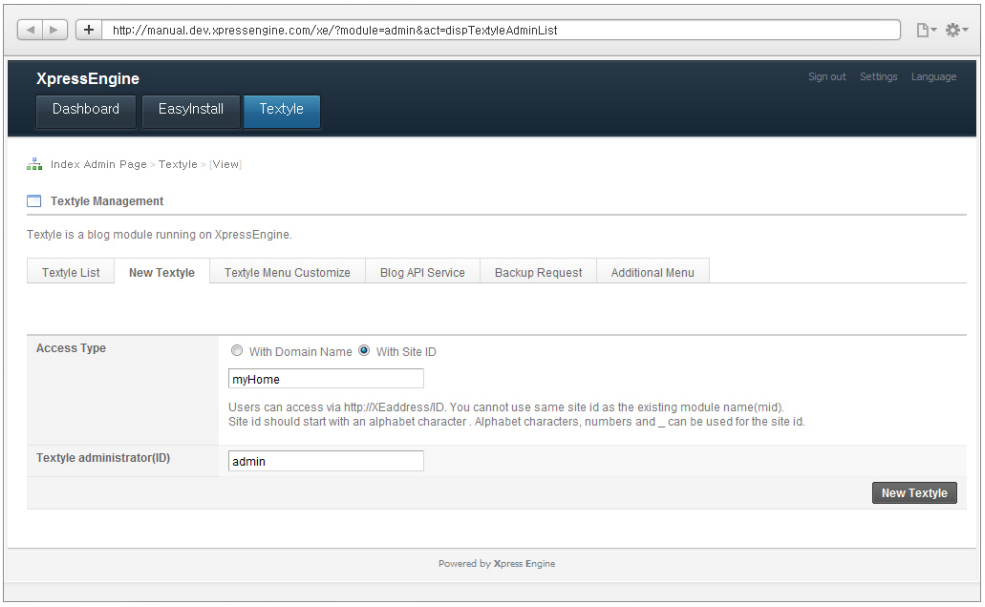
- Textyle Menu Customize: You can hide default menus or develop pages or features other than default property to add in menus. The menus hidden or added by using this menu are applied to all the distributed Textyles in a batch.
- Blog API Service: Blog API handles the remote publication of posts from any other application, and not the administrator's blog. You can post Textyle posts to any blog supporting Blog API in remote locations.
- Backup Request: You can check the backup request history requested from the distributed Textyle. The administrator of the distributed Textyle can perform the Textyle backup in Textyle administration mode and the website administrator can back up all the distributed Textyles directly.

- Additional Menu: You can see the list of other modules that can be added to Textyle. This menu can limit the number of modules available for each individual. If this value is empty, each individual to whom Textyle is distributed can use the corresponding module without any restriction.

5.3.3 Creating a Textyle

The procedure used to create Textyle is as follows:

1. Press the **New Textyle** tab in the Textyle Management page.
2. Set **Access Type** and **Textyle administrator (ID)** and click **New Textyle** at the bottom right of the window. The settings for this example are as follows:
   - Access Type: With Site ID
   - Textyle administrator (ID): admin



If Textyle is created, the information in the created Textyle appears in the **Textyle List** tab.

5.3.4 Configuring a Textyle

Open the Textyle main page by clicking the created Textyle, and click **Admin** at the top of the Textyle main page. After logging in to the individual administration screen, you can see the following window.

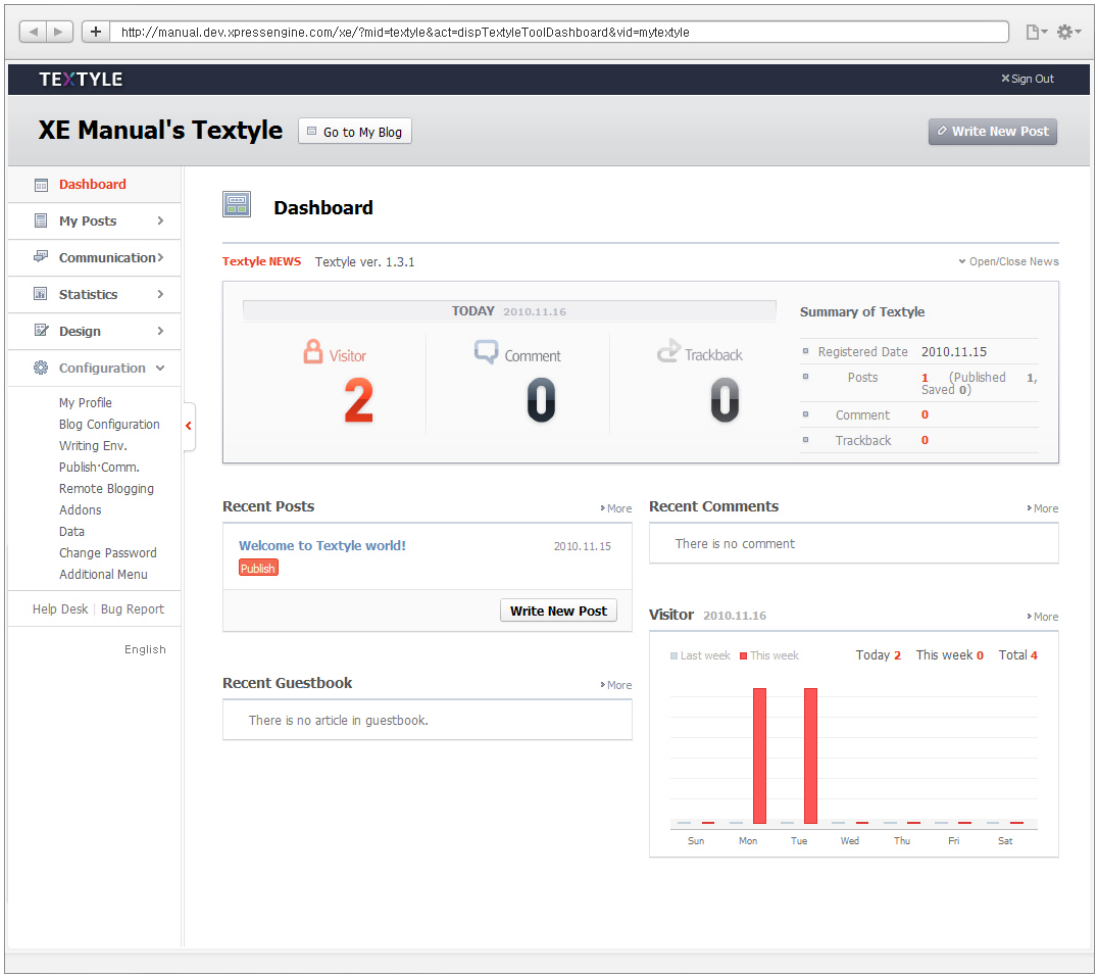


Figure 5-8 Individual Textyle Administration Window

Among Textyle administration menus, the sub-menus related to **Configuration** are as follows:

- My Profile: It is used to set user information. It enables you to write or modify nicknames, E-mail addresses, profile photos and cover letters.
- Blog Configuration: It is used to set blog information. It enables you to enter or edit blog title and one-line introduction, set favicon (Favorites icon attached to the front of website address) or set language or time zone for menu.
- Writing Env.: It is used to set the posting environment. It enables you to, also, set the use of Textyle editor, font, posting header or footnote and remote publication feature to draw up writings to this Textyle in a remote place.
- Publish·Comm.: It enables you to specify targets to be exposed to Textyle's first page and the number of the targets, and set whether to send postings to me2day or twitter accounts. In addition, it enables you to set types to be sent out from RSS or entry forms for writing contents or a guestbook.
- Remote Blogging: It enables you to set the feature to send out postings written in this Textyle to other blogs or boards.
- Addons: It enables you to set the features of addons installed in this Textyle.
- Data: It enables you to back up or resume blog posts or data, or initialize your blog.
- Change Password: It enables you to change Textyle administrator's password.
- Additional Menu: It enables you to add modules installed in XE as Textyle menus.

5.3.5 Setting Textyle Design

You can create a better blog with your unique personality by changing Textyle's skin. It enables you to apply default skins provided when installing Textyle or the skins downloaded from official website. In addition, after the administrator edits the applied skin, you can modify it for your blog. You can also apply blog skins for your mobile unit.

Installing and Applying Skins

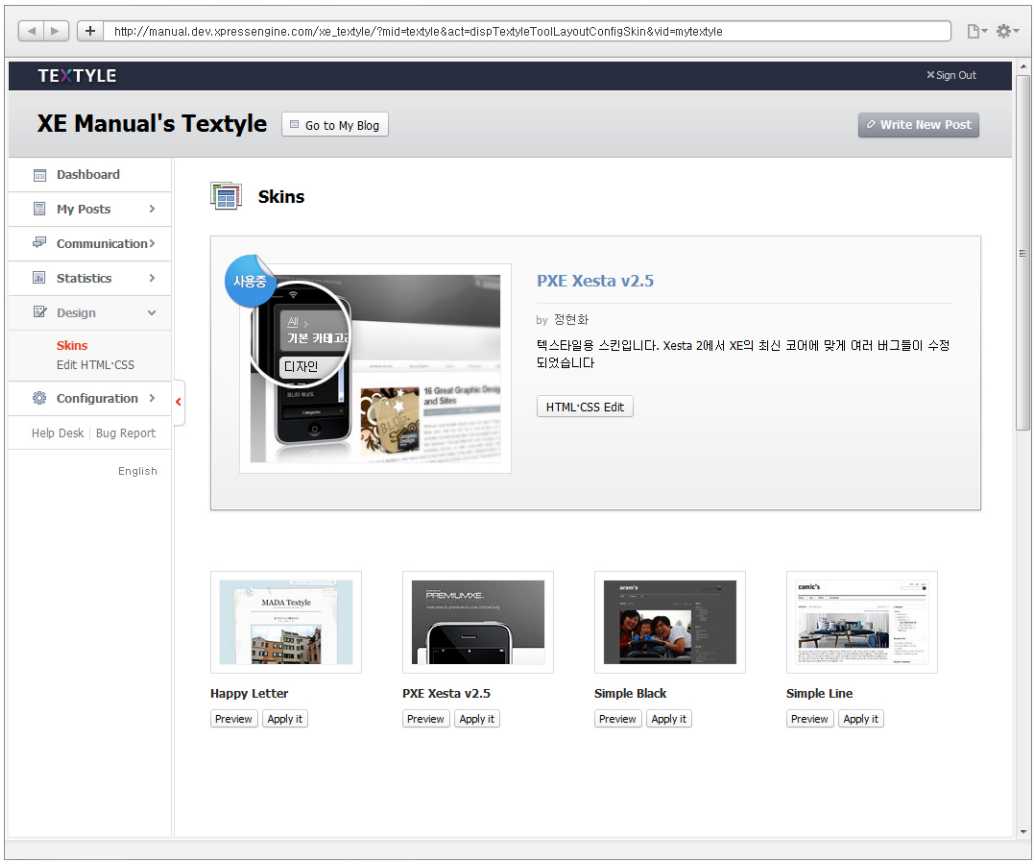
To apply a new skin, you must install the Textyle skin first. You can download various skins from the official XE website (http://www.xpressengine.com/download).

The procedure used to apply Textyle skins is as follows:

1. Click **Design > Skins** from the Textyle administration menu, and then select a skin from the default skins to apply to your website. For this example, let's suppose that you select **PXE Xesta v2.5** skin.

> **Note**
>
> Click a desired skin to check the detailed information on the skin. Since the detailed skin information window provides Textyle screen images applying the skin or the URL address of the Textyle website that the skin is actually applied to, you can confirm the appearance before you apply the skin. Among detailed information items, the installation path indicates the position where you must upload source file during the installation process. If you want to upload source code directly to install skins with no use of **EasyInstall**, you must keep in mind the installation path.

2. Click **Download** in the detailed information window to download the skin file, and then upload the file to the skin installation path of the server. For detailed installation method, see "Installing Additional Features by Uploading Source Files."
3. Select **Design > Skins**, and the information in the installed skin appears as shown in the figure below.



Creating Widgets

Now, we will create three widgets for the applied skin. Let's specify the settings to display the latest posting, reply and trackback list in each widget.

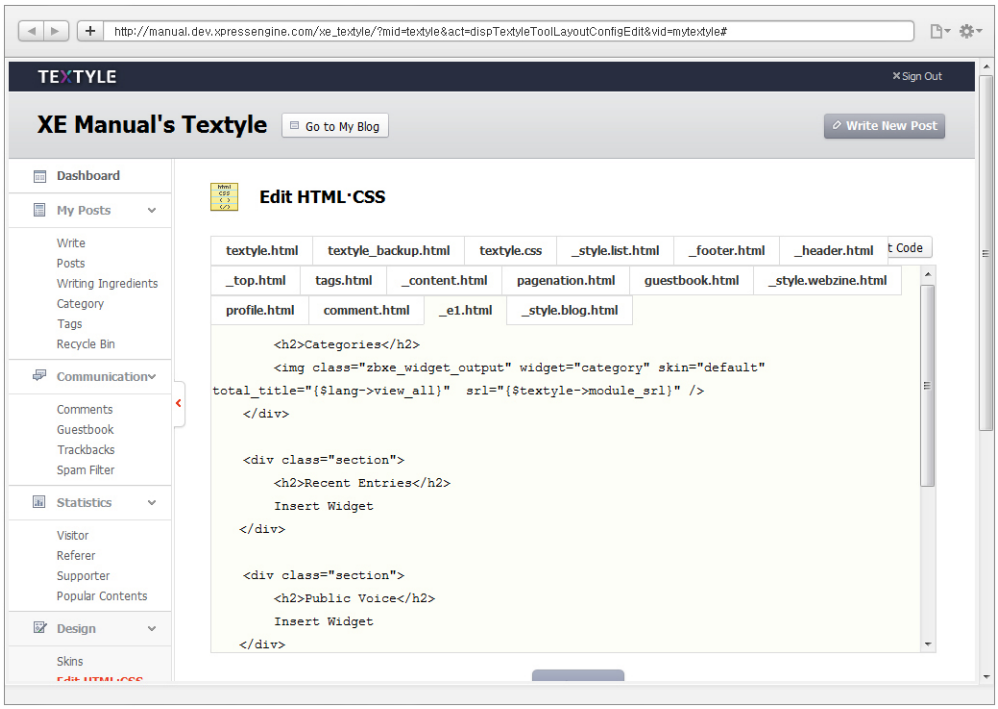
1. Select **Construction > Widget** in the XE Admin Page, and the information in the widgets installed in your website appears.
2. Select **Content** from the default widgets and click **Insert**.
3. After setting each field below, click **Generate Code**. Since the three widgets has the same attributes excluding the values of **Target**, create codes three times after only setting **Target** differently.
   - Widget: Content Widget ver x.x
   - Theme: Content widget default skin (default), Colorset: For white background

> **Note**
>
> To specify colorset, select a desired skin from **Theme** and click **Select**. To create the code correctly, you must specify a colorset after selecting a skin.

   - Cache: 0 min.
   - Target:
     - Latest Post Widget: Post
     - Latest Comment Widget: Comment
     - Latest Trackback Widget: Trackback
   - Content Type: Title

- Tab Type: None
- Display Target and Order: title
- Display Article Name: No Display
- Comment Count: Display
- Trackback: No Display
- Category: No Display
- Icon: No Display
- Target to be sorted: Newest Submitted Order
- Sorting Type: Descending order
- Thumbnail Type: Crop
- Width of Image: (Do not enter)
- Height of Image: (Do not enter)
- Number of Images: (Do not enter)
- Number of Lists: 10
- Page: 1
- Duration of indication for new item: Empty
- Length of Subject: 30
- Length of Content: (Do not enter)
- Target Module: (Do not insert)
- Feed related items: (Do not enter)
- HTML Display Type: UL

4. After copying the created codes, close the popup window.
5. Select the **Design > Edit HTML·CSS** in the left side of individual Textyle administration window.
6. Select the **_el.html** tab, and paste the latest post, the latest comment and the latest trackback widgets to Recent Entries, Public Voice and Trackbacks tags, respectively.



Note

Even though you have made a skin you like by modifying the skin and inserting a widget skin by editing HTML and CSS, the changes will be deleted if you apply another skin. To prevent such case, you must back up the skin. The **Backup skin**, **Restore skin**, **Reset** buttons are located at the bottom of the **Edit HTML·CSS** window.

Backup skin: It enables you to back up the current skin and download the skin again when you want after changing the skin.
Restore skin: It enables you to upload the backup skin again by using the Skin Backup feature and apply its modified skin again.
Reset: It deletes all changes and restores the skin contents into the original status before the skin was applied initially. This feature is used to restore any skin into the original status when you cannot modify the skin.

5.4 Setting a Default Module

After building your website, you must set the first page (default module) that other users access initially. If the default module is not set, the following message appears when other users access:

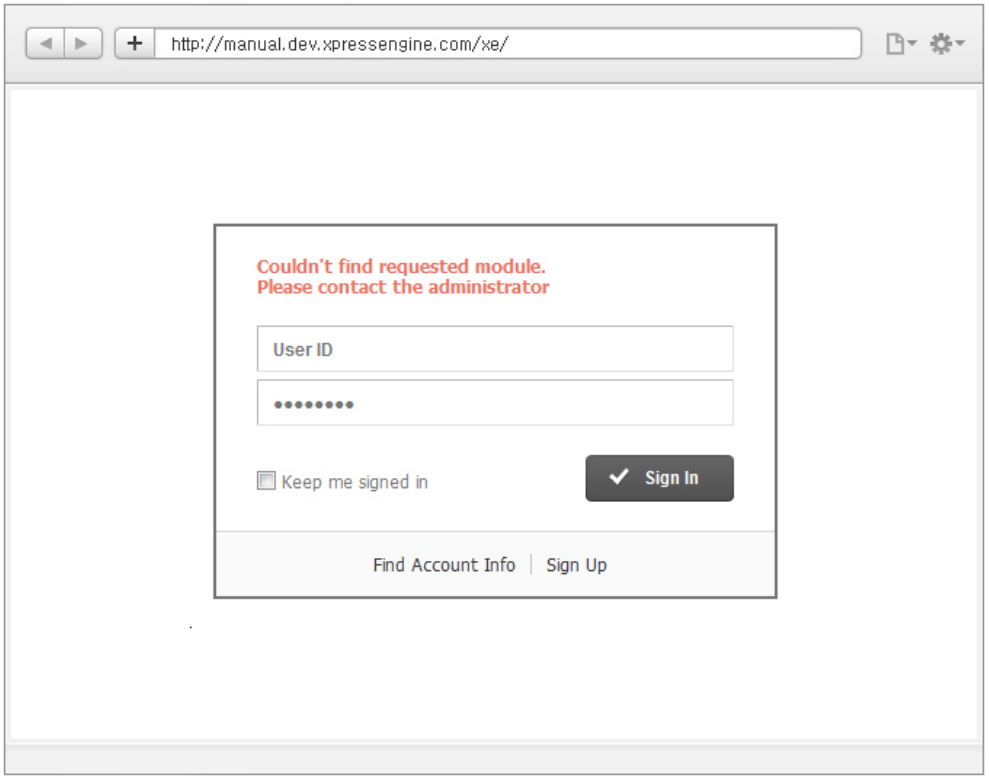
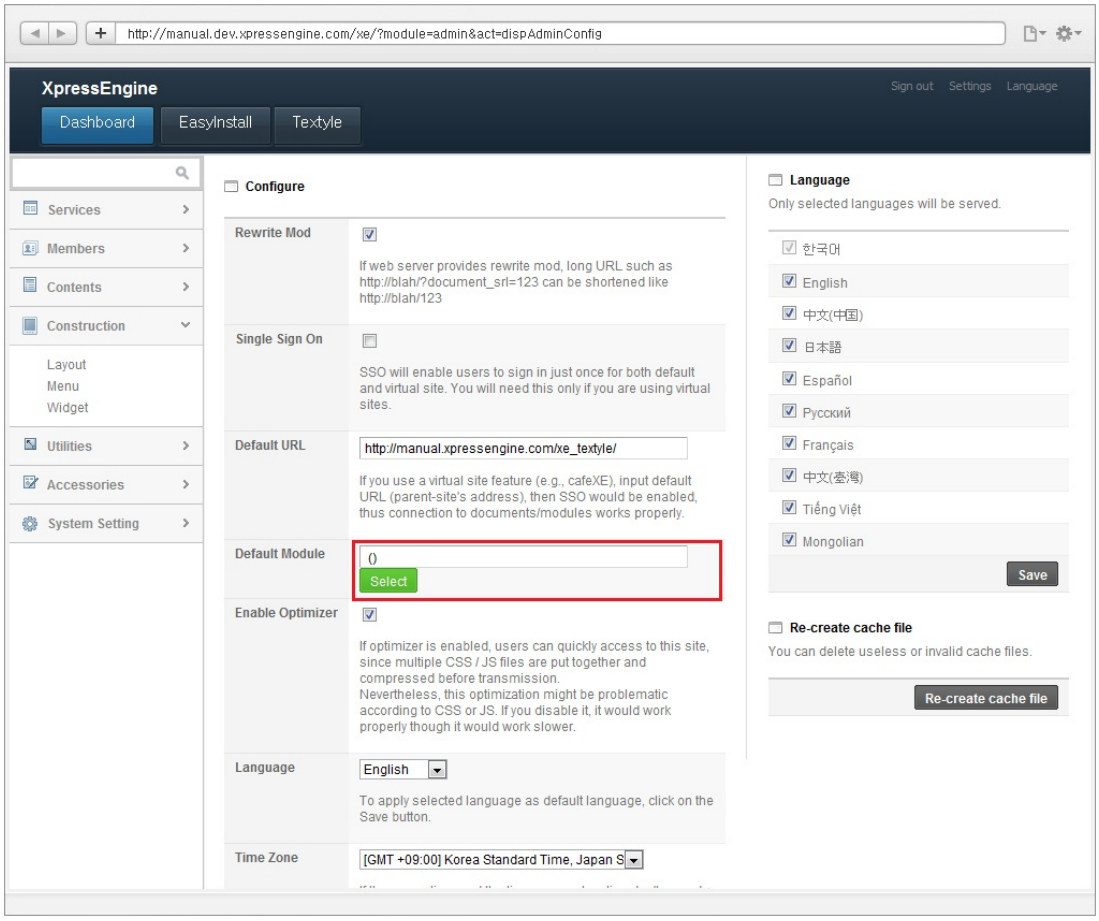


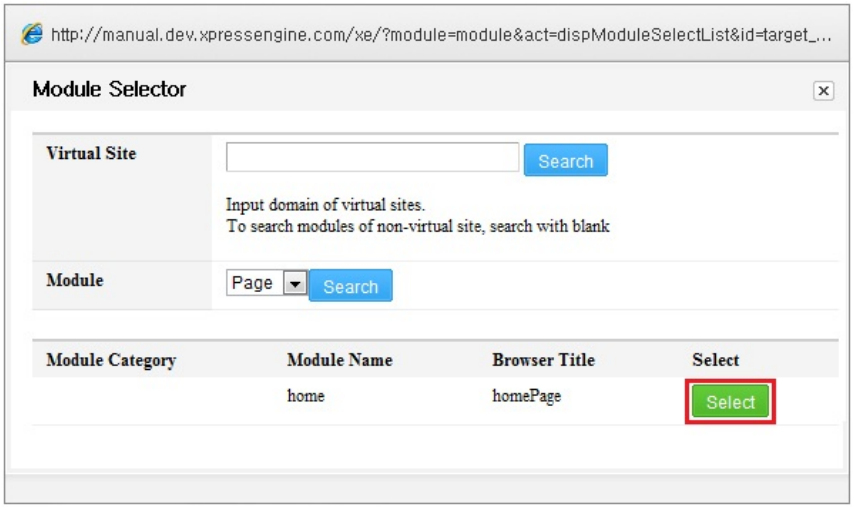
Figure 5-9 Website Access Error When Any Default Module Has Not Been Set

1. To set a default module, select **Dashboard > Construction** in the XE Admin Page or access the Construction page (http://example.com/?module=admin&act=dispAdminConfig).
2. When the Configure window appears, click **Select** in the **Default Module** field.

   If the default module is not set, the entry box is displayed as **()**.



3. Click **Select** at the right side of the module to be set as the default module from the created module list.



6. Appendix

This chapter provides the helpful information to install and use XE.

6.1 Setting Up a Windows Environment

You can use WPI to install XE under Windows environment.

> **Note**
>
> If you install XE by using WPI in Windows XP, you cannot use mod_rewrite to reduce the length of URL to make it easy to remember.
> XE packed in WPI is version 1.4.0.5. If you want to install the latest version of XP, you must separately update into XE core after installing with WPI.

6.1.1 Getting an Account

To install XE into a Windows server, you must have an account to access to the server. For the server account, ask your server administrator. If you administrate the server directly, use the existing account or create a new account.

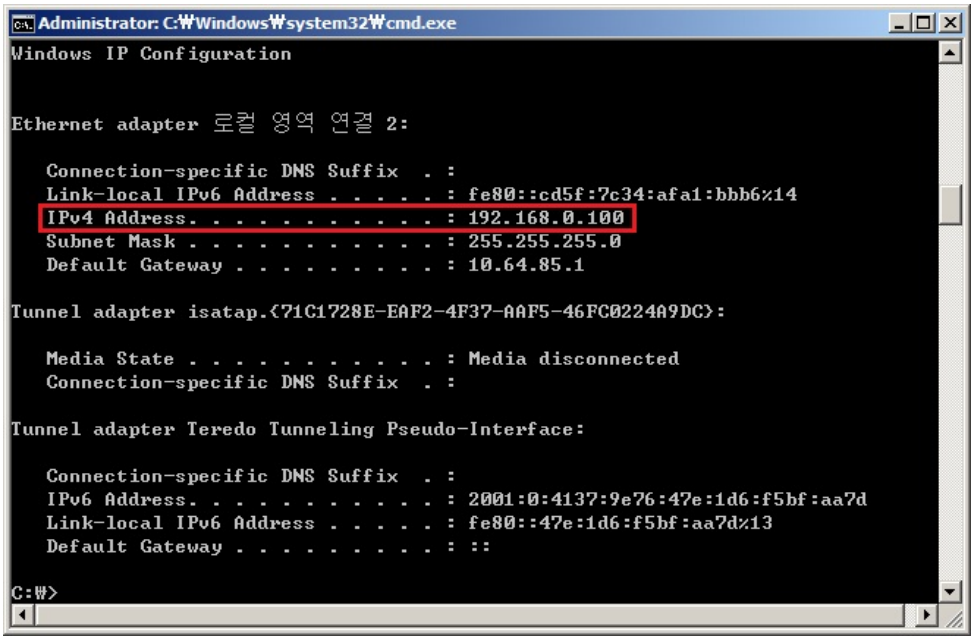
After specifying the account name, you can select the account type. It is recommended to minimize the authority of the account by selecting a limited account to keep the server secure as possible.

6.1.2 Using Remote Desktop Connection

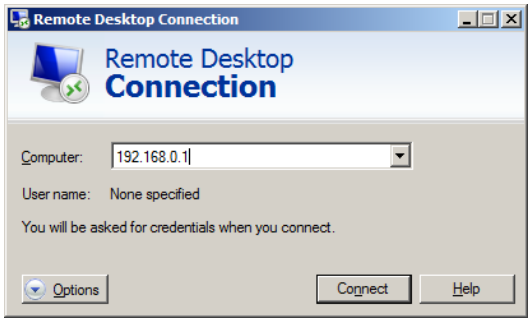
If you cannot manipulate the server directly, you must access and manipulate the server remotely. Windows systems provide the 'Remote Desktop Connection' program to access and manipulate another computer.

To use the Remote Desktop Connection program, you need the server's domain address or IP address. If a domain has been already set, you may access by using the domain. If not, you must use IP address. The procedure to check the server IP address and access to it by using the Remote Desktop Connection program is as follows:

1. Execute the command prompt of your Windows server.
2. Enter the ipconfig command and check the server IP address.



3. Execute **Start > Accessories > Remote Desktop Connection** from My Computer or mstsc in the command prompt.
4. If the Remote Desktop Connection window appears, enter the server IP address to **Computer** and click **Connect**.



5. If a window to enter server account and password appears, enter the account created in "Getting an Account" and log in to the server.

6.1.3 Using WPI

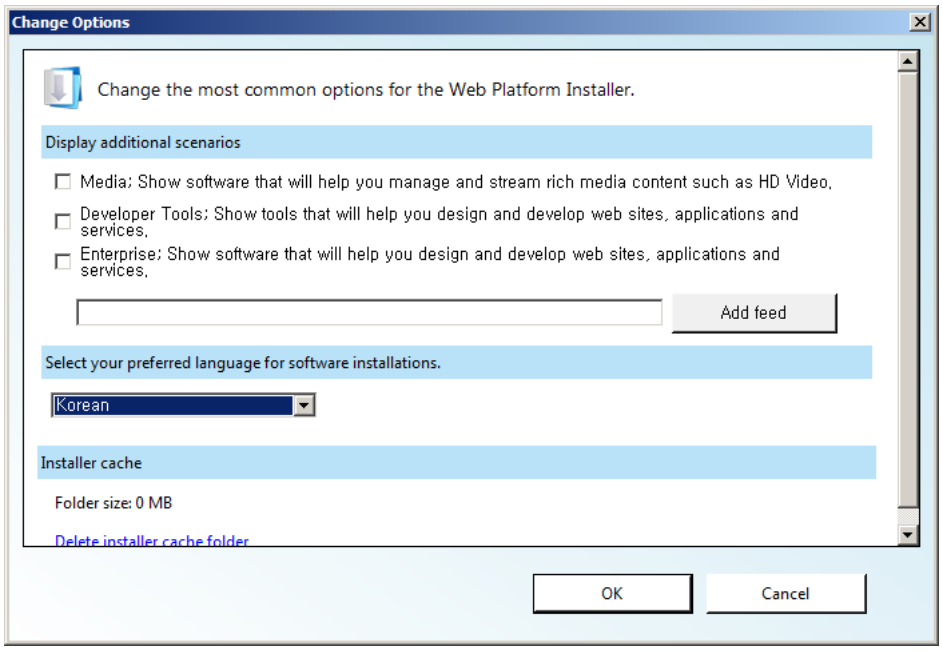
WPI is the tool that Microsoft provides for the convenient use of Web platform products. WPI automatically install and set required components or Web applications.

It installs the components necessary for a Web application when you install the Web application. If, therefore, you use WPI, the programs necessary for the XE installation are installed together when you install XE.

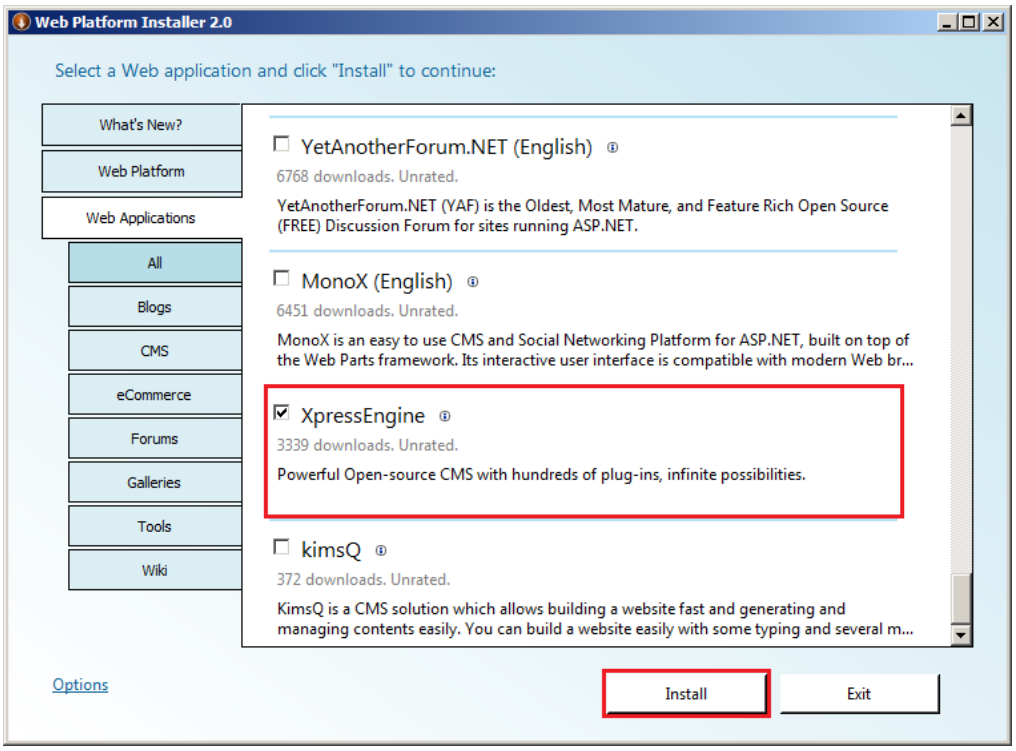
Download WPI installer from the official website for Microsoft Web Platform (http://www.microsoft.com/web/default.aspx).

Executing WPI Installer and Starting XE Installation

1. Execute WPI installer and then select **CMS** in the **Web Applications** tab.
2. Click **Option** at the bottom left of the installer window.
3. Select **Korean** for your preferred language and click **OK**.



4. Find and select **XpressEngine** from the application list in the **CMS** and then click **Install**.



5. To install XE core, check additional components to be installed and set and then click **I Accept**. XE core starts to be installed.

Installing Additional Components

If additional installation components include MySQL DBMS, you must specify a password during installing MySQL DBMS. If a screen to specify administrator password appears, specify password and click **Continue**.

> **Note**
>
> If you specify MySQL administrator password for the first time in WPI, the password must contain both lowercase and uppercase letters, as well as at least one numeral and one symbol. Since the MySQL administrator password is required when installing XE, you must memorize the password.

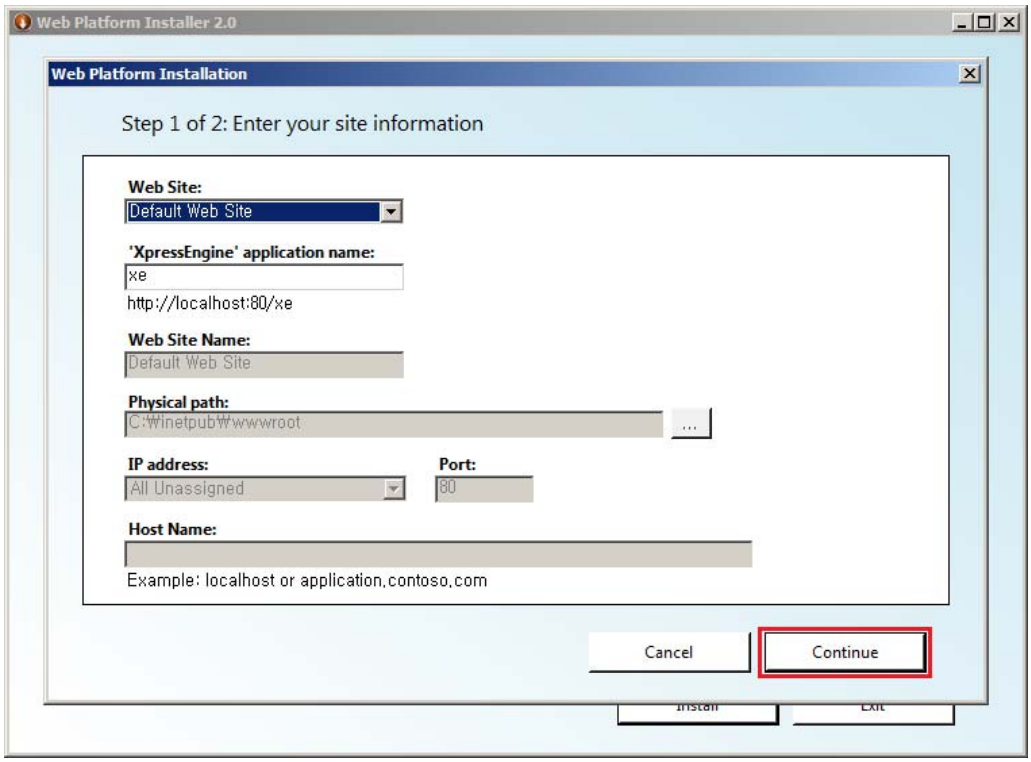
If the account is completely set, components start to be installed.

Entering the Information Required for XE Installation

After the required components for XE are installed, XE starts to be installed.

1. As shown in the figure below, enter the information of the website where XE is installed and click **Continue**.

   Unless you want to set some site information in particular, use the default setting as is.



2. Enter the following information in the XE core installation and click **Continue**.

- Database: A DBMS to be used in XE. Herein, select MySQL.
- Create a new or use an existing database: Select whether to use the existing database or new database for the operation of XE. It is recommended to create new database if possible.
- Database Administrator: A selected administrator ID for the DBMS: Herein, the administrator ID of the MySQL is 'root.'
- Database Administrator Password: A DBMS Administrator's password for the selected DBMS. Enter the MySQL administrator password specified in "Installing Additional Components."
- Database User Name: A user name to access database from XE
- Database Password: A user password to access database from XE
- Database Server: The location where DBMS is installed is specified in URL format. In this document, since the server and the DBMS are operated in the same computer, enter *localhost*.
- Database Name: Your existing or new database name to be used in XE
- Database Table Prefix: A header to be used in table names created in XE
- Set XE Admin ID: An ID of XE administrator
- Set XE Admin Name: A name of XE administrator
- Set XE Admin Nickname: An alias of XE administrator account
- Set XE Admin Password: A password of XE administrator account
- Set XE Admin Email address: An E-mail address of XE administrator E-mail account
- Use URL Rewrite: Whether to use mod_rewrite. If this item is activated, you can reduce the URL length to make it easy to remember.
- GMT Timezone: A local standard time for XE service

Welcome to XE

If you complete all installation processes, access your website by using your web browser. If the installation is completed successfully, the following window appears.

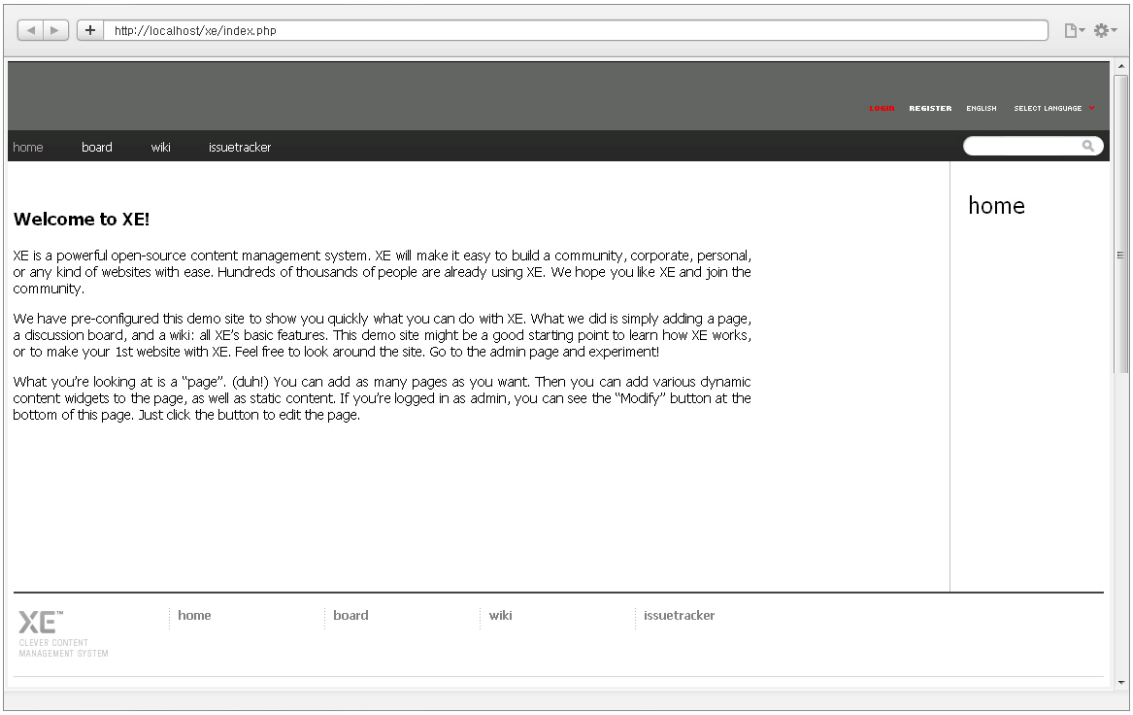


Figure 6-1 Welcome to XE! Window

Note

When you install XE by using WPI, you need to update XE core to its latest version. Download the latest version of XE core from the official XE website, unzip it and then overwrite the contents under the XE site installation directory (C:\Inetpub\wwwroot\xe) with the unzipped files.

6.2 Setting Up a Linux Environment

This section describes basic information necessary for the installation of XE by using a Linux server.

6.2.1 Getting an Account

To install XE, you need the accounts to access the server and the database storing XE information. Check server and database accounts as follows:

1. After logging into the server with the administrator account, create a user account by using the useradd command. For more information on the useradd command, see "Command to Create Accounts - useradd."

   If, however, your server is provided from a Web hosting provider, ask the provider to set up the account.

2. Check the account information of the database to store all data necessary for XE installation and operation. For information on how to create and check the DBMS account in use, see the official website.
   - CUBRID official website (http://www.cubrid.com/zbxe/home)
   - Firebird official website (http://www.firebirdsql.org/)
   - MySQL official website (http://www.MySQL.com/)
   - PostgreSQL official website (http://www.postgresql.org/)
   - SQLite official website (http://www.sqlite.org/)
   - Official website for MS SQL Server (http://www.microsoft.com/korea/sqlserver/2008/default.aspx)

6.2.2 Using PuTTY

To access a server, you need to use PuTTY, which is a remote access program. PuTTY is only available for the servers supporting Telnet or Secure Shell (SSH) protocols.

The procedure used to install and use the PuTTY is as follows:

1. Download the setup file from the official PuTTY website (http://www.chiark.greenend.org.uk/~sgtatham/putty/).
2. After executing the downloaded PuTTY, enter the server IP address to **Host Name** on the PuTTY Configuration window and click **Open** at the bottom of the window.
3. If the login window appears, enter your ID and password in turn.

You cannot check your input information because there is no change when entering password. When, however, pressing Enter after entering the password correctly, you can see whether the authentication request is passed or failed.

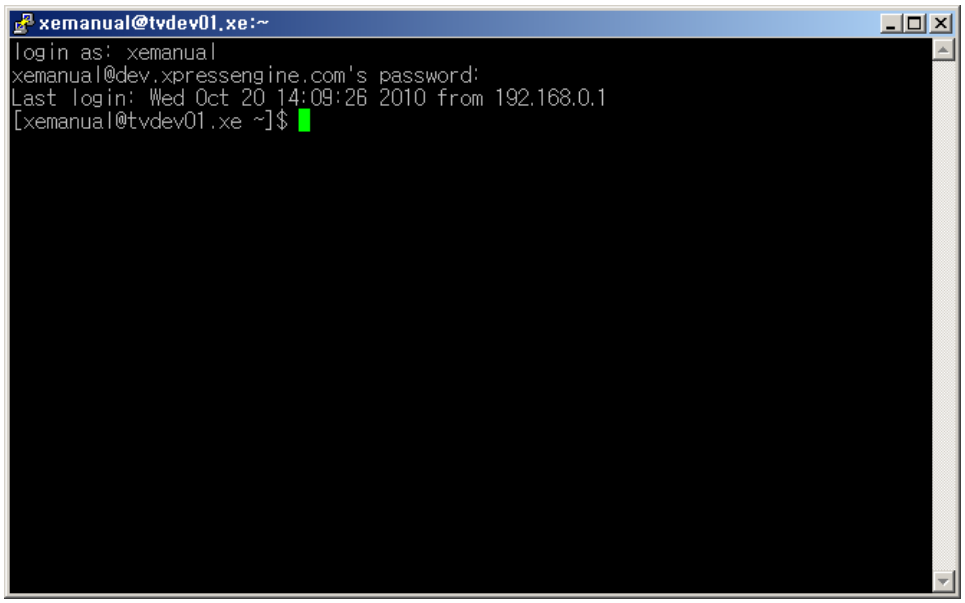


Figure 6-2 PuTTY Login Window

6.2.3 Uploading XE Core Setup File

To upload the setup file stored in My Computer to the web server, you need a File Transfer Protocol (FTP) program. In this document, FileZilla, which is a free and open program, is used. You can get FileZilla from the FileZilla official website (http://filezilla-project.org/download.php?type=client).

With FileZilla, access the server to install XE, and upload the setup file.

- Host: A server domain address or IP address
- Username: An account with server access permission. Enter the account used when getting access to the server by using above described PuTTY.
- Password: An account password
- Port: An FTP port number of the access server. In general, 21 is used as the port number. If you cannot access the server, check the FTP port number of the access server again. The server administrator may have changed the FTP port number.

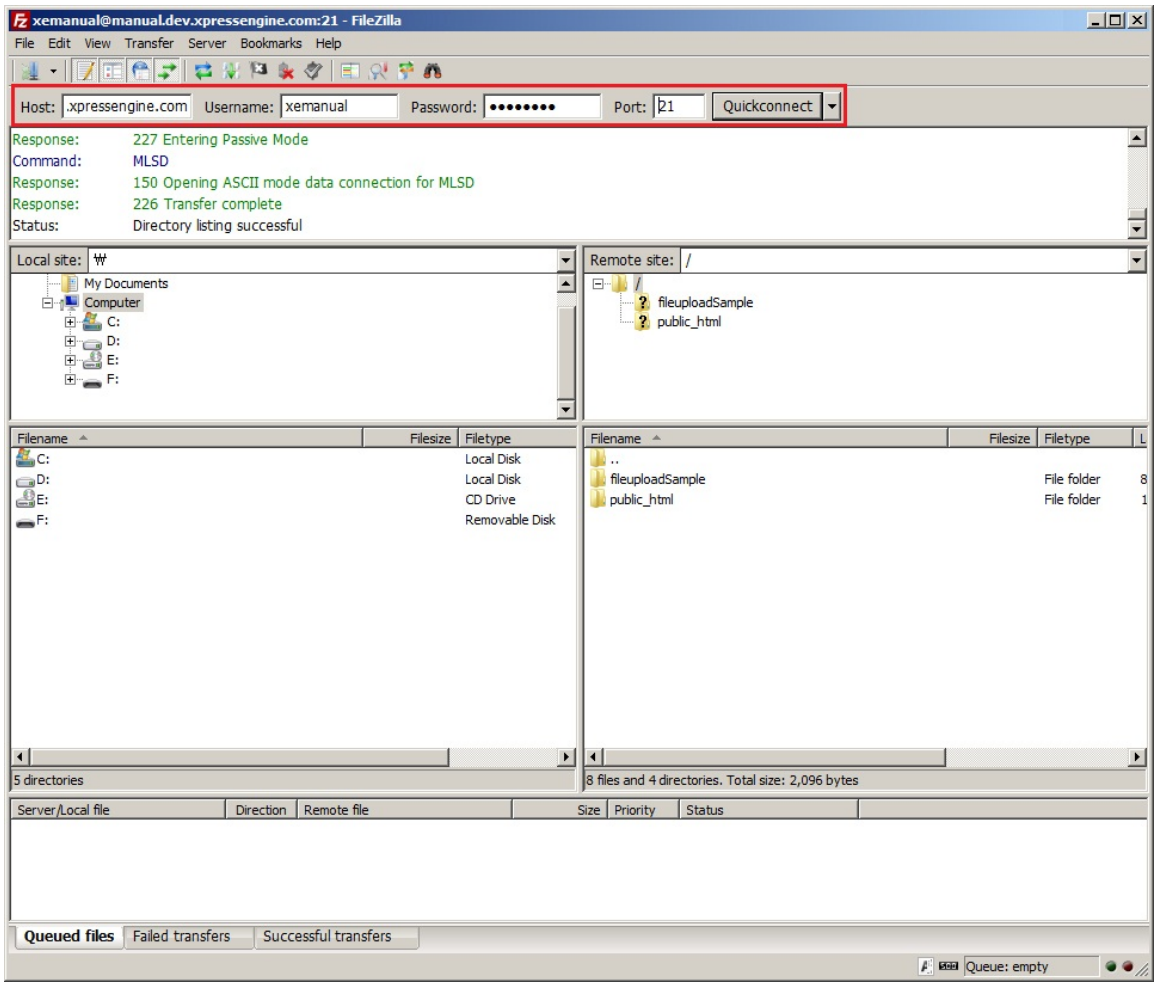


Figure 6-3 FileZilla Screen Shown When Server Access Succeed

6.3 Uploading XE Core Setup File by Formats

You can upload XE core file to a web server in two ways:

- Uploading to the server after downloading and extracting a zip file
- Extracting a tgz file after downloading the file and uploading to the server

Select more convenient method between the two methods.

Uploading a zip File After Extracting

1. Download the XE core setup file whose extension is .zip to My Computer and extract it.
2. Upload the unzipped file included in the xe directory to the server by using FileZilla.

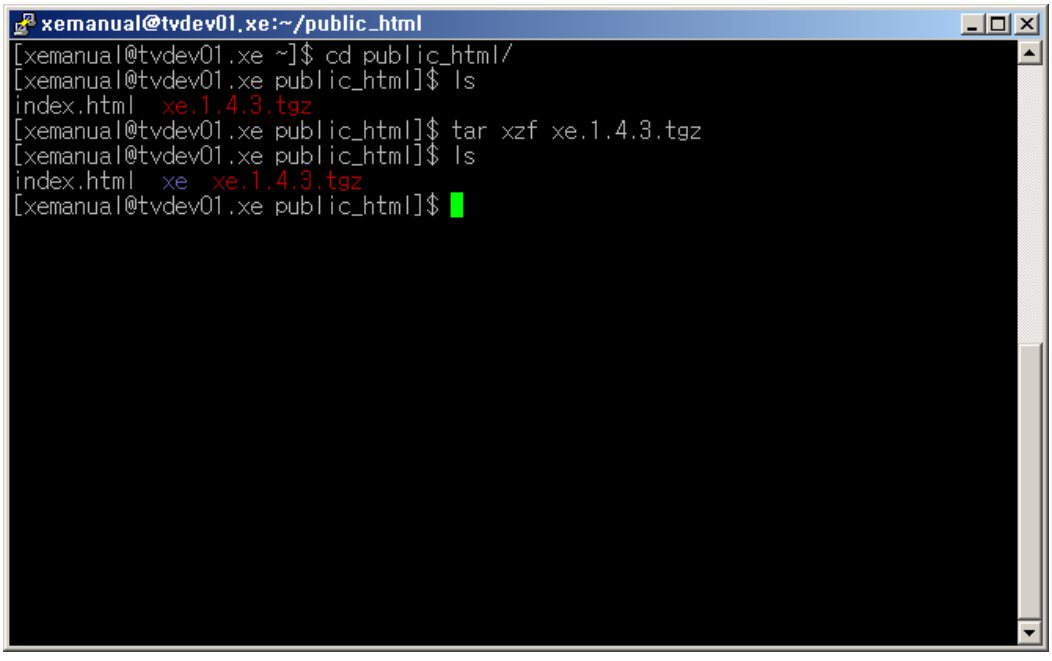
> **Note**
>
> Upload the XE core file to the root directory of the server. If, for example, you upload the xe directory to the root directory of a 'manual.xpressengine.com' server, you must access 'manual.xpressengine.com/xe.'

Extracting a tgz File After Uploading

Under Windows environment, the compressed file is extracted by using a file compression program already installed after uploading the file.

Under Linux environment, the compressed file is extracted after uploading the file as follows:

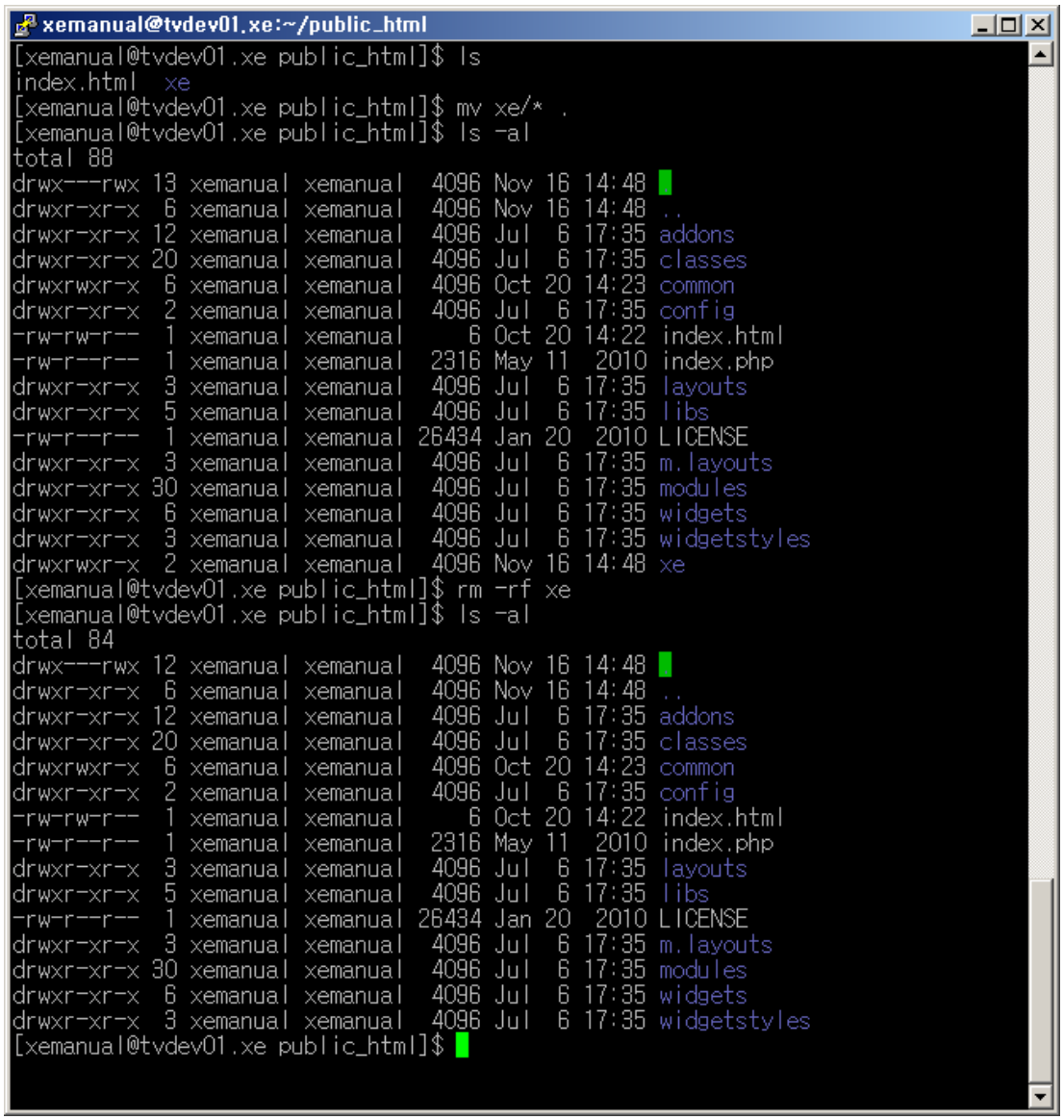
1. Download the XE core setup file whose extension is.tgz to My Computer and upload the file to your server.
2. After getting access to the server by using PuTTY, move to the root directory.
3. Enter the ls command to check if xe.x.x.x.tgz file is uploaded.
4. Extract the compression of a tgz file by using the tar command.



5. Move the files under the xe directory to the root directory by using the mv command. Now, you can access the Web page through the domain path.

```
mv xe/* .
```

At this time, make sure that a dot (.) at the end of the command is not missing.



6. Since you have already extracted the xe.x.x.x.tgz file and have moved all files under the xe directory, delete the xe.x.x.x.tgz file and the xe directory by using the rm command.

Note

For a detailed description about Linux commands, see "Linux Commands."

6.4 Linux Commands

6.4.1 Command to Compress or Extract Files - tar

Command Format: tar <Operation> [Options] (Directory path or compressed file path)

<Operation>

- [-]A: Concatenate a second tar file to the end of the first.
- [-]c: Create a new tar file.
- [-]d: Compare the files stored in tar file with other files. Report any differences.
- [-]r: Append other files to the end of an existing archive.
- [-]t: Print the names of files stored on the archive.
- [-]u: Add files if not in the archive or it modified.
- [-]x: Extract the compressed file
- --delete: Delete from the archive.

<Common Options>

- -C: Specify the directory before beginning tar operation.
- -f: It is used to specify a file name.
- -j: Compress files with bzip2 before archiving them, or uncompress them with bunzip2 before extracting them.
- -p: Keep the attributes such as permission, directory and owner of extracted files the same as the originals.
- -v: Print filenames as they are added or extracted.
- -z: compress into or extract gzip files in a batch.

6.4.2 Command to Remove Files and Directories - rm

Command Format: rm [Option] (File or directory path)

[Option]

- [-]f: Remove write-protected files without prompting.
- [-]r: Remove the entire directory and all its contents, including subdirectories.
- [-]v: Print the name of each file before removing it.

6.4.3 Command to Move Files and Directories - mv

Command Format: mv [option] (File or directory path) (File name of directory path)

[Option]

- [-]b: Back up files before removing.
- [-]f: Force the move, even if target file exists.
- [-]u: Do not remove a file or link if its modification date is the same as or newer than that of its replacement.
- [-]v: Print the name of each file before moving it.

6.4.4 Command to Create Directories - mkdir

Command Format: mkdir [Option] (Directory name)

[Option]

[-]p: Create intervening parent directories if they don't exist.

6.4.5 Command to Change File and Directory Permissions - chmod

Command Format: chmod [Option] <mode> (File or directory path)

[Option]

- [-]c: Print information about files that are changed.
- [-]f: Do not notify user of files that chmod cannot change.
- [-]v: Print information about each file, whether changed or not.
- [-]R: Traverse subdirectories recursively, applying changes.

<mode>

Files and directories have three types of permissions: read (r), write (w) and execute (x). Each permission has its own value and can create a mode with the value that the unique values are added.

User			**Group**			**Others**		
r	w	x	r	w	x	r	w	x
400	200	100	40	20	10	4	2	1
700			70			7		

For example, if you want to assign all permissions, you can use 777, which is the sum of all values within the table, as mode. If you want to assign all permissions to a user, and read and execute permissions to other users, set mode to 755.

6.4.6 Command to Create Accounts - useradd

Command Format: useradd [Option] (account name)

[Option]

- [-]u: A user ID
- [-]g: A group ID or group name
- [-]s: SHELL information
- [-]d: A home directory

6.5 Error Handling

This section describes the errors that can be generated when you install and set XE, and how to handle them.

6.5.1 Insufficient Version of MySQL

- Error: A message that says "XE cannot be installed under the version of MySQL 4.1. Current MySQL version is x.x.x-log" appears.
- Cause: It occurs when the installed version of My SQL version is lower than the minimum supported version.
- Solution: Update MySQL to version 4.1 or higher.

6.5.2 Incorrect DB Account Information

- Error: A message that says "Access denied for user 'xxx'@'xxxx' (using password: YES) xxx" appears.
- Cause: It occurs when DB account does not exist, password is wrong or you do not have the access permission to the database to connect.
- Solution: Check to ensure that you correctly entered account setting, access permission information and database information.

6.5.3 Incomplete Permission Settings When Installing XE

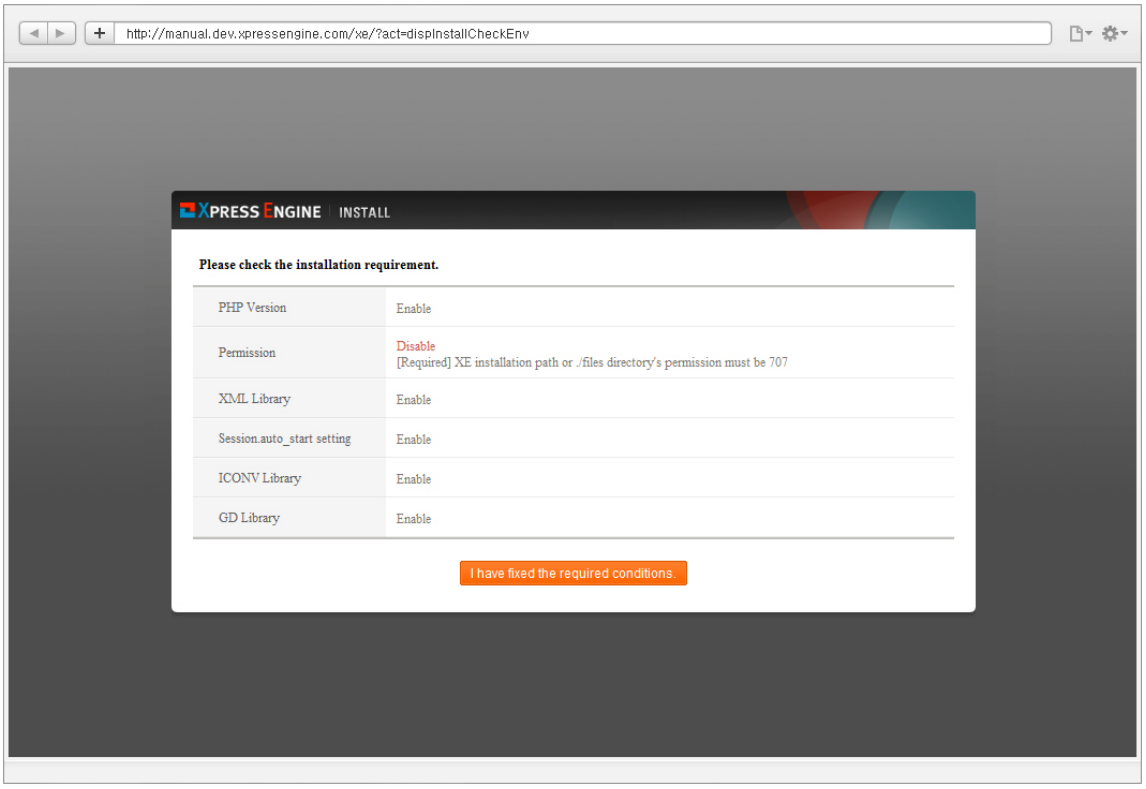


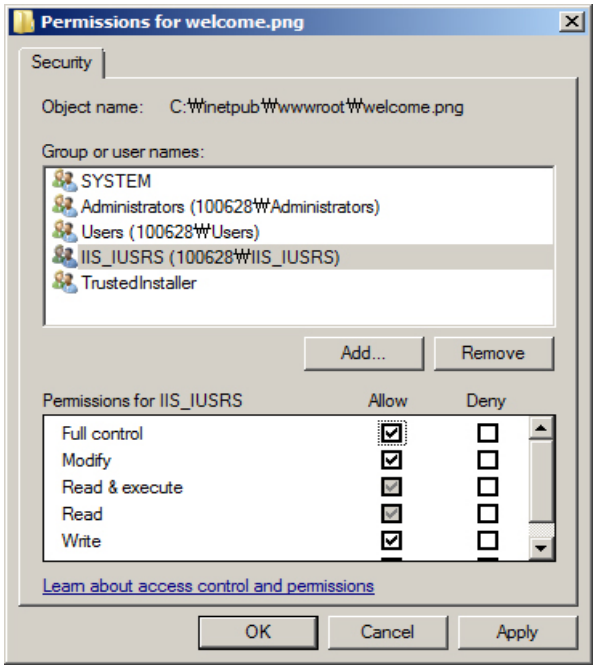
Figure 6-4 Screen Shown When Permission Settings Incomplete

- Error: A message that says "[Required] XE installation path or ./files directory's permission must be 707." appears.
- Cause: It occurs when the files directory does not exist in the XE installation path.

- Solution (Windows): Check whether the files directory exists in the XE installation path.

  In Windows XP, you can install XE without setting the permission for files or folders. In Windows 7 (IIS7), however, you must grant permissions to IIS_ISURS (group) and IUSRS (user) as follows:

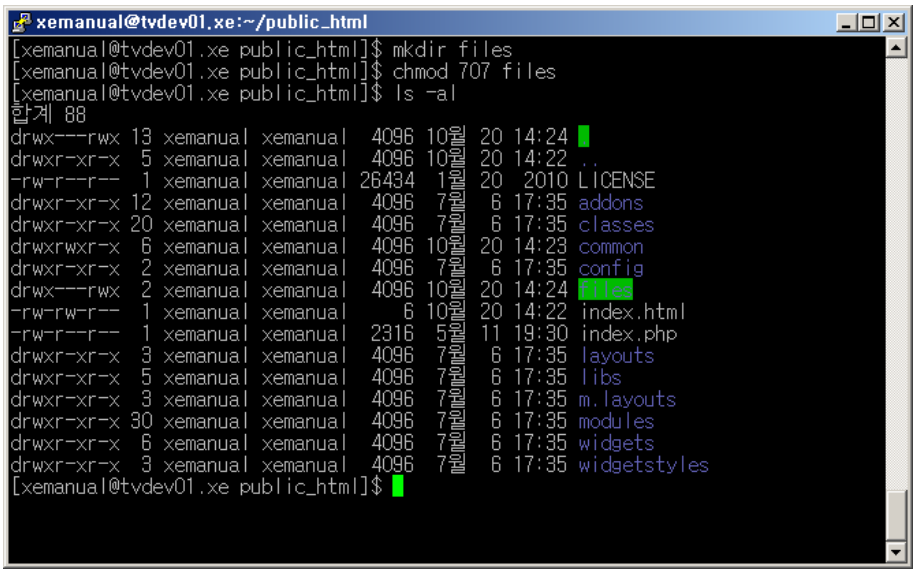
  a. Right-click the XE installation folder (C:\Inetpub\wwwroot\xe) and then select **Properties** from the Context menu.
  b. Select the **Security** tab in the **Properties** window of the folder.
  c. Click **Edit** in the center of the window.
  d. Check that there are IIS_IUSRS group and IUSR user within the **Group or user names** list on **Permissions** window. If not, click **Add**.
  e. In the **Select Users or Groups** window, enter *IUSR* under **Enter the object names to select**, click **Check Names** and then click **OK**.
  f. Click **Add** in the **Permissions** window again.
  g. At this time, enter *IIS_USRS* in the **Select Users or Groups** window, click **Check Names** and then **OK**.
  h. If all users and groups are added, select **IUSR**, click the **Allow** checkbox for **Full control** as shown below and then click **Apply**.



  i. In addition, set for **IIS_IUSRS** in the same manner as above.

- Solution (Linux): Check whether the files directory exists in the XE installation path.

  In the Linux environment, if the files directory does not exist, create the files directory by using the mkdir command and set permissions by using the chmod command.



6.5.4 FTP Home Directory Inaccessible during EasyInstall

- Error: A message that says "msg_make_directory_failed" appears.
- Cause: It occurs when the value of "FTP path setting of the installed XE" in website environment is wrong.
- Solution: After checking the absolute path of the installed XE path, set the value again. You must add '/' at the end of the XE absolute path.