The University of Sheffield Students' Union

Committee Details System Documentation

Installation Guide

User Manual

Maintenance Guide

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System Requirements

- Computer with internet connection
- Server with PHP, MySQL support
 - Please be aware, that in case your server does not support JSon, the system will not be able to work correctly.
 - If your version of PHP does not support JSon, please follow this installation guide on how to install it and set it up.

http://www.php.net/manual/en/json.setup.php

- Web browser (**Chrome** is highly recommended, Internet Explorer 7 or higher) with JavaScript support enabled
- At least 10 MB of free server space

How to install

In case you do not know what these types of data mean, please consult the Glossary of terms.

Before you begin the installation process, please make sure your computer is connected t the internet. Insert the installation disc into your CD/DVD-ROM and open the

"The University of Sheffield Students' Union Societies Manager"

folder on the disc.

Now copy the whole content of this folder to your desired place on your server

eq. using /www/yourlocation folder

will result in the system being accessible with the address

www.yourserver.ac.uk/yourlocation

Once the content has been copied, follow these steps to set up the system:

1. Set up database connection

Open file

application/config/database.php

with text editor and scroll down to the bottom of the file. Now change these settings on lines 44 - 47

```
$db['default']['hostname'] = '';
$db['default']['username'] = '';
$db['default']['password'] = '';
$db['default']['database'] = '';
```

so that you fill in required data in the quotes on the right hand side accordingly

eq.

```
$db['default']['hostname'] = 'yourhostname';
$db['default']['username'] = 'yourusername';
$db['default']['password'] = 'yourpassword';
$db['default']['database'] = 'yourdatabase';
```

Save the file.

2. Set up the user table connection

Open the following file with text editor

application/models/model.php

and change these settings on lines 21 - 24

```
$this->user_table = '';
$this->user_id_column = '';
$this->user_username_column = '';
$this->user_password_column = '';
```

so that you fill in required data in the quotes on the right hand side accordingly

eq.

```
$this->user_table = 'users';
$this->user_id_column = 'id';
$this->user_username_column = 'username';
$this->user_password_column = 'password';
```

Save the file.

If the user table stores users' passwords as encrypted strings, please open the file

```
application/models/User.php
```

and uncomment (remove two forward slashes from the beginning of the line) line number 59. Make sure you are using correct encryption method (MD5 is set by default).

Save the file.

3. Install database tables

Open your browser and type the address of the system followed by forward slash (/) and the installation file (install.php)

eq. (using the example above)

```
www.yourserver.ac.uk/yourlocation/index.php/install
```

Type in the default super administrator username and click the "Install now" button.

The University of Sheffield Students' Union Societies Hanagement System
S Brinner Hann
The university of Shffield Students' Union Societies Management System Installation Wizzard To start the installation process please enter the default super administrator to use the system and click (instal new).
Usemame of default super administrator
© 2013 The University of Deeffeld Zhudenin Usery, All Rights Reserved &

4. Delete install file

Delete this file

application/controllers/install.php

The installation is now complete.

Features

This system covers all the **features** that were discussed, covered and agreed on the requirements document. These include:

- Login
- The three user views (administrator, super administrator and general user)
- Inventory that can be exported to Excel
- Customisable forms
- Search and sort features for displayed records

• General user

- Filter records according to their category
- Sort records by any accessible column in the table header
- Search for strings contained in the records' details

• Administrator

- In addition to General user features
- Export displayed records to CSV file
- Compose email to different societies' members
- Create a new society
- View notifications about missing data in records

• Super administrator

In addition to Administrator features

- Add new admin
- Delete an existing society
- Manage society positions
 - o create new
 - o set/unset mandatory
 - o remove
- Manage society categories
 - o create new
 - o remove

How to use

All relevant locations every feature has been circled in red in each screenshot.

Login

To start using the application, the user – super administrator must first login. The default login details for super administrator are to be specified during the installation process.

The University of Sheffield Students' Union Societies Hanagement System	
Statements there are a second and a second and a second area and a	
Login	
Username:	
Password:	
© 2011 THE UNIVERSITY OF STRETTER UNDER AN INGRES RESERVED ©	

Main page

When the user logs in, they will see the list of their societies currently stored in the system. The view can be modified, using different filtering features, to suit the needs of the viewing administrator.

The administrator can see all the societies currently stored in the system. The menu on the top provides advanced features.

In addition to all the privileges the administrator has, the super administrator also has a **management button**, which will take them to a section where they can tweak the application using a simple tabs layout with options.

The **View all** button is used at any point in time to see all the basic society information at anytime. i.e. Name, Category, Group, Email, Website and date created.

The **View newly created** button is used at any point in time to see all the **recent** basic society information at anytime.

ffield tents' Viewall View newly creater	ated Expt displayed to	csv file Compose an	email Create a new society	View notifications (6)	Super admin managem
neffield Students' Unio	on Societies				Search
olaying: All records 3 record count	t: 6	Texestory	1251-021		
<u>Name</u>	Category	Group	Email	Web site	Date created
Motorola sounds	Mobile phones	Tweaks	mobile@gmail.com	www.mobile.com	15-05-2011
Android Programming Society	Computer games	DCS	cp@yahoo.com	www.androidps.ac.uk	15-05-2011
Kite flyers	Free time	Students' Union	kiters@hotmail.com	http://www.allaboutkiting.net	15-05-2011
Chineese Football Society	Sport	Students' Union	indiansoc@gmail.com	www.indiansoc.com	15-05-2011
ndian Society	Not yet completed	Students' Union	indiansoc@gmail.com	www.indiansoc.com	15-05-2011
Computer programming society	Computer	DCS	comprosoc@gmail.com	comprogsoc.com	15-05-2011
	red View newly crew reffield Students' Unico laying: All records ① record count tame fotorola sounds undoid Programming Society title flyers chineses Football Society ndian Society	old and View newly created Experi displayed to teffield Students' Union Societies laying: All records © record count: 6 tame Category dotorola sounds Mobile phones udoid Programming Society Computer games tite flyers Free time Chineses Football Society Sport Not yet completed	and View newly created Exp. displayed to csv file Compose an reffield Students' Union Societies laying: All records • record count: 6 • record count: 6 tame Category froup fotorola sounds Mobile: phones Tweaks undroid Programming Society Computer games DCS šite flyers chineses Football Society Sport Students' Union chineses Football Society Not yet completed Students' Union	And View View	Main Society View newly created isplayed to csv file Compose an email Create a new society View notifications (6) reffield Students' Union Societies Iaying: All records I record count: 6 Iaying: All records I record count: 6 <

Searching and Sorting Features

The user can filter the information in the system to what they are looking for using the search feature. The society records shown at any time can also be sorted alphabetically (ascending and descending) for every column.

e University of Sheffield Students' Unio	n Societies Management System				Welcome, edgaras Logou
Sheffield Students' View all Export	displayed to csv file Compose an	email Create a new s	ociety View notifications (6)		Super admin management
Sheffield Students	Union Societies				Search
Displaying: All records (1) records	ord count: 6	Group	Email	Web site	Date created
1 Android Programming Society	Computer games	DCS	cp@yahoo.com	www.androidps.ac.uk	15-05-2011
2 Chineese Football Society	Sport	Students' Union	indiansoc@gmail.com	www.indiansoc.com	15-05-2011
3 Computer programming society	2 Computer	DCS	comprosoc@gmail.com	comprogsoc.com	15-05-2011
4 Indian Society	Culture	Students' Union	indiansoc@gmail.com	www.indiansoc.com	15-05-2011
			Liter Obstand see	http://www.allaboutkiting.pot	10000
5 <u>Kite flyers</u>	Free time	Students' Union	<u>kiters@notmail.com</u>	http://www.anaboutkiting.net	15-05-2011

Top menu

Top menu will provide the administrators with buttons for various functions.

The University of Sheffield Stud	lents' Union Societies Mar	nagement System				Welcome, edgaras Logout
Sheffield Students View all	View newly created	Export displayed to csv file	Compose an email	Create a new society	View notifications (5)	Super admin management

Exporting to .csv file

To export displayed records to .csv file, press the corresponding button in the top menu.

The University of	Sheffield Stu	dents' Union Societies Man	agement System				Welcome, edgaras	ogout
Sheffield Students'	View all	View newly created	Export displayed to csv file	Compose an email	Create a new society	View notifications (5)	Super admin managem	nent
CHION						in the second se		

Composing email

This function enables fully customisable mailing lists for the different societies to be created. There are predefined default mailing lists that cannot be removed. These are the lists of all members of all societies and lists of all members occupying a mandatory position.

The University of Sheffield Studen	ts' Union Societies Management System		Welcome, edgaras Logout
Sheffield Students' View all	View newly created Compose an email Create a new society View notifications (6)		Super admin management
Compose a nev	v email	_	
Subject:	Welcome	Choose a mailing list	Create a new mailing list 💌
Your message:	Dear user,	Choose the society:	Indian Society
	welcome to the University of Sheffield Students' Union. Your administrators	f Sheffield Students' Union. Choose the President r	President 💌
			Add
		Recipients:	
		Society	Position
	Send	List name	Save
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Creating a new society

This button initiates the creation of a new society. The name of the society and the president's username are created with this button.

The University of Sheffield Students' Union Societies Management System	Welcome, edgaras Logout
Sheffield Students View all View newly created Compose an email Create a new society View notifications (5)	Super admin management
Create a new society	
Society name:	
President's username:	
Create new society	
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Notification System

This gives the admin and super admin updates on recent activity per society that occurs in the system. It shows any missing data in every society.

e University of Sheffield Students' Union Societies Management System	Welcome, edgaras Logout
Shoffield Students View all View newly created Compose an email Create a new society View notifications (5)	Super admin management
Notifications Computer programming society	
X Secretary position has not been assigned to any member yet	
Indian Society	
The category has not been selected yet Secretary position has not been assigned to any member yet	

Delete society

As well as a society can be created, it can be deleted in the super administrator's view. Start the delete process by clicking on a society you want to delete and then click on **Delete this society** button in the top menu. Confirm your action.

e University of Sheffield Students' Union Societies Management System				Welcome, edgaras	Logout
Sheffield Students' View all View newly created Delete this soc Union	iety Compose an email Create	a new society View notific	ations (6)	Super admin mana	gement
Chineese Football Society					
Info Positions Inventory Activities Risk assess	nent				
Edit Category:	Sport				
Group:	Students' Union				
Email:	indiansoc@gmail.com				
Web site:	www.indiansoc.com				
2011 <u>The University of Sheffield Students' Union</u> , Al Rights Reserved ® e University of Sheffield Students' Union Societies Hanagement System				Welcome, edgaras	Logout
Sheffield Sudents View all View newly created Compose an e Union	mail Create a new society View	v notifications (6)		Super admin mana	gement
▲ Do you really want to delete this society?					
Chineese Football Society					
Yes, delete it			No, keep it		

Super admin management

This button provides the super admin access to the tabs that enable the addition of new administrators and management of society **positions**, **categories** and the **risk assessment form**.

The University of Sheffield Students' Union Societies Management System	Welcome, edgaras	Logout
Sheffield Students' View all View newly created Compose an email Create a new society View notifications (6)	Super admin mana	gement
Management		
Add new admin Positions Categories Risk Assessment Create a new administrator		
Admin usemame:		
Super admin		
© 2011 The University of Sheffield Students' Union, All Rights Reserved ®		

Creating a new (super)administrator

To create a new administrator/super administrator, simply click corresponding button in the management view. Insert their username and specify (by ticking a checkbox) whether they are super administrator or administrator.

Managing categories

In the **Categories** tab, the super administrator can create new categories, change the existing ones or remove categories.

Managing positions

In this tab, the super administrator can create new positions and set these to be mandatory. All mandatory positions must be occupied by a society member.

Creating custom risk assessment form templates

The super administrator can create custom templates for risk assessment form. To do it, whilst inside the **Super admin management** section, click on the **Risk assessment** option. A page will show which allows the super administrator add new fields into the form. You add new fields by pressing **Add field** button. These fields include:

- Check boxes
 - o Element that can be ticked.
- Combo boxes
 - o Drop –down list which enables users select a value inside it.
- Tables
 - o Table with header for column names and rows
- Text boxes
 - o Text field enabling a user insert a text

The super administrator can add as many of these fields as they like.

University of Sheffield	Students' Union Societies M	anagement System			Welcome, edgaras Logout
Sheffield Students' View a Union	all View newly created	Compose an email Cr	eate a new society	View notifications (1)	Super admin management
M					
wanageme	m				
Add new admin	Positions Categories	Risk Assessment			
Manage risk	assessment for	n template			
h	i j	k 1	m	n	× <u>Remove</u>
text box:					× Remove
comboBox: g 💌					× Remove
checkBoxes: 🔲 c🔲 b	a a				* Remove
Save					
011 The University of Sheft	field Students' Union, All Rights Ri	served ®			

When the super administrator is done editing, **do not** forget to press save button at the bottom for any change to take effect. After saving the template, the added fields will be displayed in a more neat way so that the super admin can easily check the template is correct and possibly remove some existing fields. This option is enabled for every existing field, so to remove, press **remove**.

Logout

This button is used to sign the user out of the system.

Ur	udents' View all Export displaye	d to csv file Compose an	email Create a new s	ociety View notifications (6)		Super admin manageme
S	Sheffield Students' Unic	on Societies				Search
Di	splaying: All records 1 record count	E 6	Group	Fmail	Web site	Date created
	Android Programming Society	Computer games	DCS	cp@yahoo.com	www.androidps.ac.uk	15-05-2011
	Chineese Football Society	Sport	Students' Union	indiansoc@gmail.com	www.indiansoc.com	15-05-2011
	Computer programming society	Computer	DCS	comprosoc@gmail.com	comprogsoc.com	15-05-2011
	Indian Society	Culture	Students' Union	indiansoc@gmail.com	www.indiansoc.com	15-05-2011
	Kite flyers	Free time	Students' Union	kiters@hotmail.com	http://www.allaboutkiting.net	15-05-2011
		Mobile phones	Tweaks	mobile@gmail.com	www.mobile.com	15-05-2011

In the unlikely event that the application causes problems, please consult the server's administrator or contact the development team on

aca09ep@shef.ac.uk or aca09vh@shef.ac.uk or aca09ock@shef.ac.uk

Maintenance Guide

This section describes the system's design along with details about how to expand it.

The system is based on the Codelgniter framework

http://codeigniter.com/user_guide/

and it uses the MVC architecture.

Models

The files managing data manipulation in the database are stored in the model folder in the main application folder. Every existing model that the system is using (Positions, User, Society, Category, Activities, Assessment, Inventory, Mailing_list) inherits from the "model.php" file which provides predefined functions for easy querying and data manipulation. This is achieved inside loadClasses() function in model.php. Inside this file, there are also variables storing the user table name and id, username and password columns. These settings are necessary to maintain the connection to the user table and therefore are crucial for correct user login functions. Every model, as their names already specify, is used to manipulate different tables in the database and used only for the purpose specific for its logic.

Views

The view files contain HTML and JavaScript code to generate a page using PHP data as variables passed from operating controller. These view files are distributed over the **view** folder itself and **society and manage** subfolders. **Society** subfolder corresponds to views displaying the society data and options for members. **Manage** subfolder corresponds to views displaying the options for super admin in **Super admin management** section.

Controllers

Controllers, as connection between models and views, incorporate the main application logic. All existing controllers are, as explained in the CodeIgniter's specifications, inherited from the default controller provided by the framework itself.

Expanding of the system

In the need of expanding the system, it is necessary to keep the described design unchanged and only create new views, models and controllers. It is highly recommended that each new model is inherited from the super class **model** located in the **model.php** file. Also, newly created controllers need to be inherited from CodeIgniter's default controller class.

Client/server-side communication

The communication between the server and client's browser is done in two ways:

- Simple form post and PHP script for generating dynamic web-pages
- Ajax using JSon library

- Ajax feature has its own controller in MVC architecture which allows manipulating data in the database. This is done in four main functions
 - getData()
 - Reads and returns data from the database.
 - add()
 - Data are be added to the database using this function.
 - remove()
 - All remove operations being applied to data are achieved with this function.
 - edit()
 - Simulates update queries on data changing in the database.

Error handling

There are four types of error messages in Codelgniter divided into four php files:

- error_404.php
- error_db.php
- error_general.php
- error_php.php

The file **error_404.php** contains the template for the info page appearing when a requested page could not be found and therefore 404 error is displayed. For the purpose of keeping the database table names and their column names hidden from the general users, in case an error message should be displayed the script in corresponding file redirects the page to non existing **404_error** page causing 404 error to be displayed.

Database design



Glossary of terms

• Database

A set of tables with records where data is stored.

• Login/Logout

Function that enables registered users to access the data.

Record

An item (society) displayed in the main page view.

• General user

Member of a society who can only view societies they are a member of and manage data if their position is mandatory.

• Administrator

User who has more privileges than the General user does. Administrator can manage any data in any society, send emails to societies, export records to csv file, create new societies and see notifications about not completed societies.

• Super Administrator

User with absolute privileges. This type of user has their own section where thay can create new administrators, change forms' templates and manage society positions and categories.

CSV file

File format is a set of file formats used to store tabular data in which numbers and text are stored in plain textual form that can be read in a text editor.

For Step 1 of Installation guide

• yourhostname

The hostname of your database server.

• yourusername

The username used to connect to the database.

yourpassword

The password used to connect to the database.

• yourdatabase

The name of the database you want to connect to.

[Codelgniter application/config/database.php file]

For Step 2 of Installation guide

• users

Table in the database where all users (general users, administrators, super administrators) are stored.

• id

Column in users table which contains unique identifiers of users.

• username

Column in users table which contains users' usernames. These are used for logging into the system.

password

Column in users table which contains users' secret passwords.

Text editor

A text editor is a type of program used for editing plain text files.

[http://en.wikipedia.org/wiki/Text_editor]