

MCCS390 Graduation Project I

# **Automatic Website Generation System (AWGS)**

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## ***Introduction***

### **Background**

IPM is composing of several schools. If we want to look for some information about some school's course on the webpage, the result is not quite well, such as the contents is not update. Furthermore some school's lecturers may not know how to establish and maintain a web site or, for other reasons, their webpage is very simple, especially not computer course department. So it is not convenient for students to get any information from lecturers when they leave the class. Such as get the hand out of the course, some special day (e.g. test day, dead line of submit assignment, etc.), or visitors want to know more about the course information. We will provide a simple, convenient interface to help lecturers and administrator generate a systematic webpage.

## ***Problems***

The problems of existing are not enough information about programs and courses, inconsistent webpages of each lecturer and some of them may not enough technical knowledge to write and maintain a webpage. Difficult for some lecturers to update their webpage

## ***Scope of project***

Providing an automatically generate website for lecturers and staff of IPM. Information entered by administrator and lecturers through an interface. Providing a control panel (page) to maintain the whole website. Making all the staff or lecturer have a consistent style and many information of their webpage.

## ***Technology adopted***

Because of many data need store and modify information at any time, we will use database and server side script on this system. So we use Active Server Pages (VB Script) to write interface to give user input their information and generate a website automatically. And store data is used MS Access database. (We consider the volume of information will become larger and larger, so the database may upgrade to MySQL or MSSQL )

## ***Function of Automatic Website Generation System***

We will provide two interfaces for administrator and user to input / edit the information. Using Active Server Pages (ASP) to write these two interfaces to give administrator and user input their information and link into the database (Access).

For administrator:

- ✧ The input / edit information of user
  - User Id, name, which school, job title, office room, office telephone number, office hour, e-mail, URL, password.
- ✧ The input / edit information of course
  - Course Id, which school, name, year, language, condition, goal
- ✧ The input / edit information of school
  - School Id, name, director, introduction, address, telephone, fax, e-mail, URL, order
- ✧ The input / edit information of subject
  - Subject Id, name, credit, introduction, semester

For user:

- ✧ The input / edit information of personal
  - Academic qualification, research, related working experience, selected publication, professional affiliation, other

The system is also including an identify page.

We also provide a function to generate a website automatically and the data from the database (Access) that input to the system by the user before. and a main menu let people to select which school and lecturer that he/she wants to browse. According to the above information to generate a website for every lecturer. (Include personal detail, teaching course at present, etc.) And support a link when people click on the course, it will redirect to the information about the course. Every section can set the name of the topic by the user.



## *Comparison with existing system*

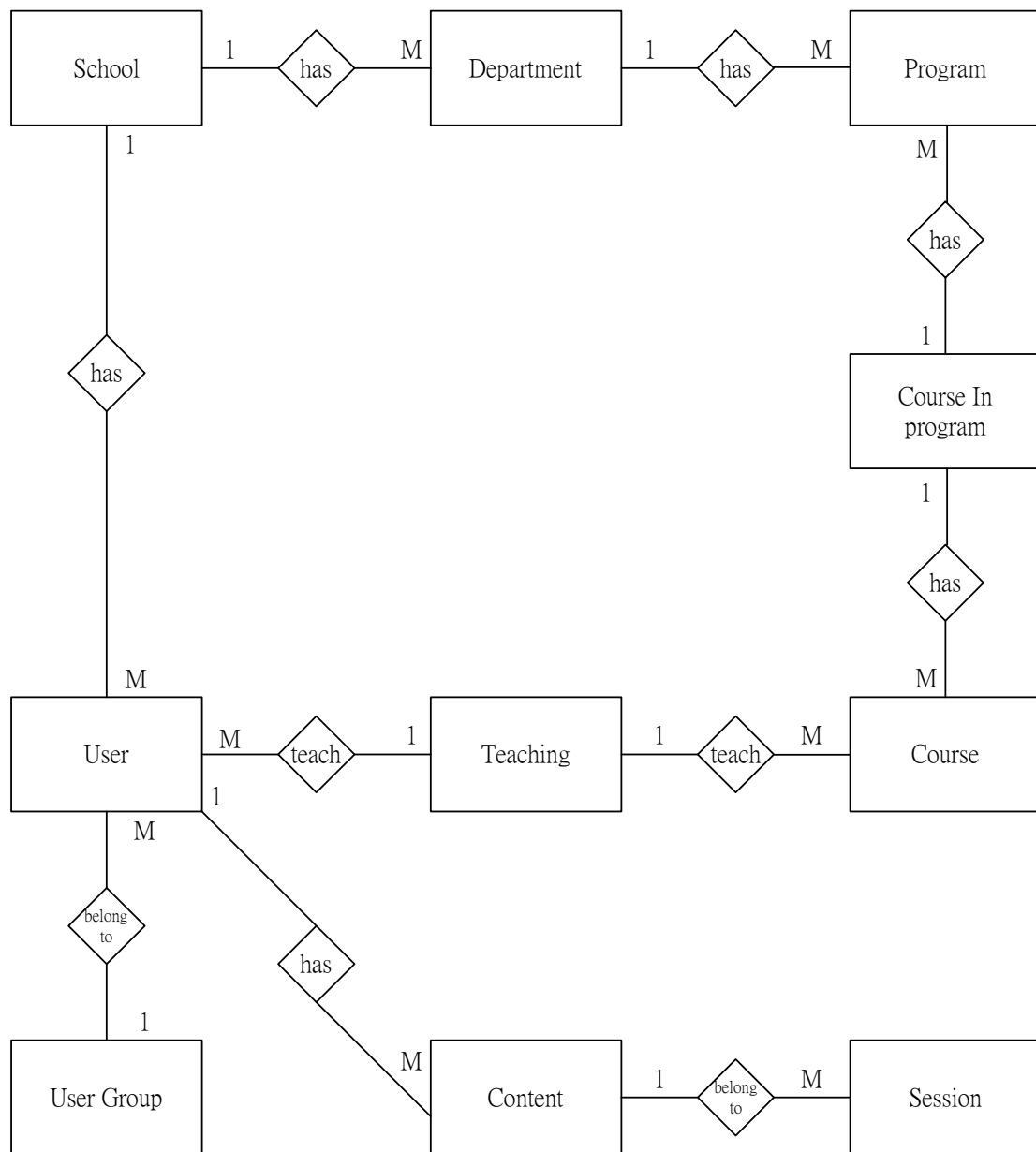
Now we compare the existing system with using AWGS, and to see which is effective.

	Using existing system	Using AWGS
Modify website structure or style	Depend on how many webpages it has	only maintain 6 pages

According to the above table, we will know that the existing system is lower effective. Because if there are 300 webpages need to modify structure, we will modify 300 times. But if use AWGS, we only modify 6 pages. So using AWGS will save time on maintain.

## System structure

### Entity-Relationship diagram of AWGS



**Attribute:**

school

Field Name	Type	Length
<u>SchoolId</u>	Char	5
CName	Char	30
EName	Char	80
Director	Char	30
Intro	Memo	...
Add	Char	255
Tel	Char	30
Fax	Char	30
Email	Char	255
url	Char	100
Order	Char	3

program

Field Name	Type	Length
<u>programId</u>	Char	10
shcoolId	Char	5
deptId	Char	50
cName	Char	50
eName	Char	50
ProgCoOrdinator	Char	10
intro	Memo	...
year	Char	50
language	Char	50
condition	Memo	...
goal	Memo	...
current	Selection	Yes / No
order	Char	2

## department

Field Name	Type	Length
<u>DeptId</u>	Char	10
CName	Char	50
EName	Char	50
Schooled	Char	5

## user

Field Name	Type	Length
<u>userId</u>	Char	10
cName	Char	50
eName	Char	50
school	Char	5
jobTitle	Char	50
officeRoom	Char	30
officeTel	Char	30
officeHour	Char	50
uerGroup	Char	5
tel	Char	30
mobile	Char	30
fax	Char	30
email	Char	50
url	Char	255
icq	Char	50
password	Char	32
photoPath	Char	255

## userGroup

Field Name	Type	Length
<u>userGroupId</u>	Char	5
description	Char	50

## content

Field Name	Type	Length
<u>contentId</u>	Auto	Long integer
sessionId	Char	10
userId,	Char	10
content	Memo	...
url	Char	255
order	Char	3

## session

Field Name	Type	Length
<u>sessionId</u>	Char	10
eName	Char	255
cName	Char	255
order	Char	3

## course

Field Name	Type	Length
courseId	Char	10
cName	Char	255
eName	Char	255
credit	Char	2
intro	Memo	...
EnL	Selection	Yes / No

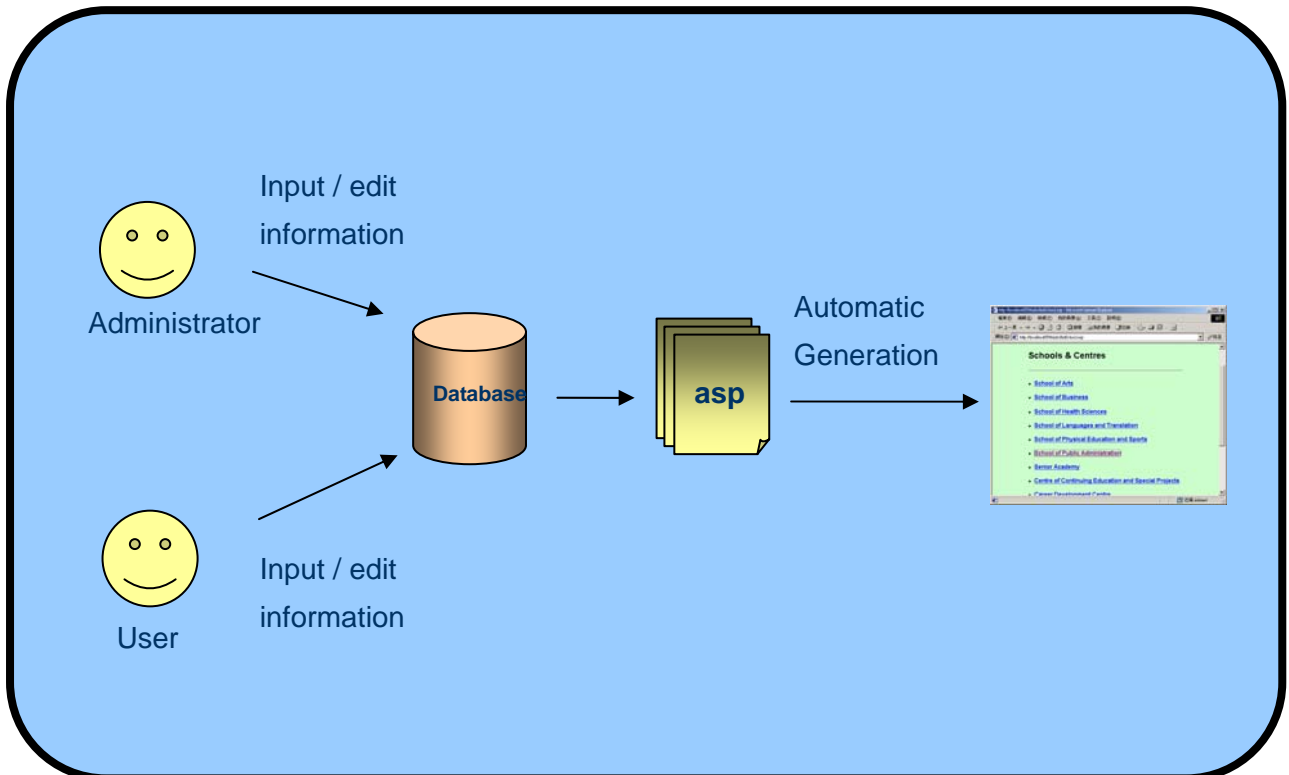
## courseInProgram

Field Name	Type	Length
<u>programId</u>	Char	10
courseId	Char	10
semester	Char	10

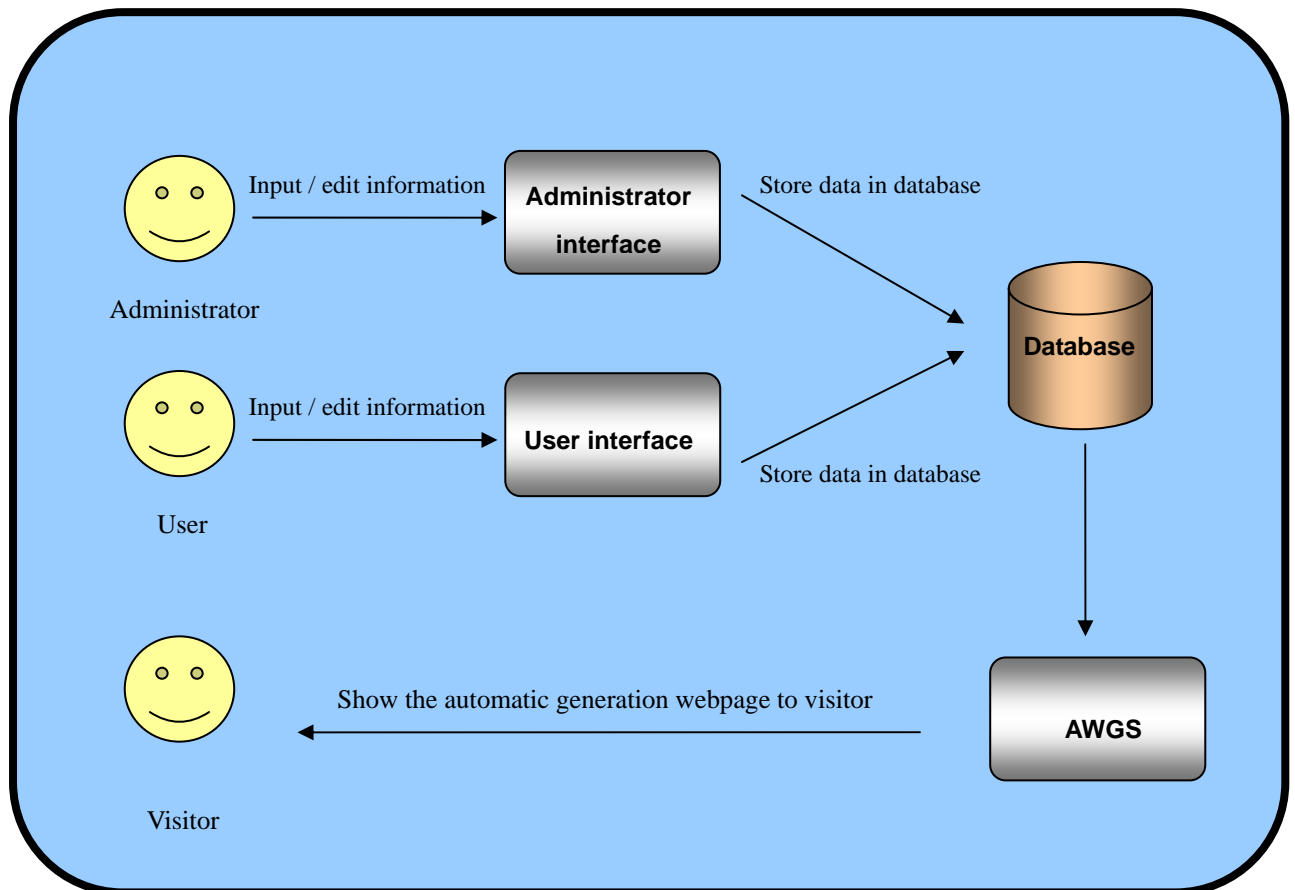
teaching

Field Name	Type	Length
courseId	Char	10
userId	Char	10

## Structure of AWGS



## Structure of AWGS





## *System requirement*

For AWGS:

Before using the AWGS must have Windows98 (PWS), Windows2000 (IIS), or higher. (Suggestion Windows2000 Server)

For administrator:

Any PC or notebook that can browsing internet.

For user:

Any PC or notebook that can browsing internet.

For visitor:

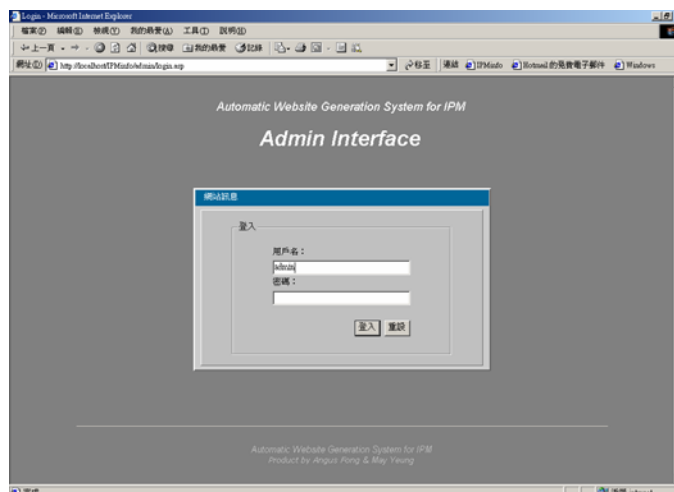
Any PC or notebook that can browsing internet.

# User manual

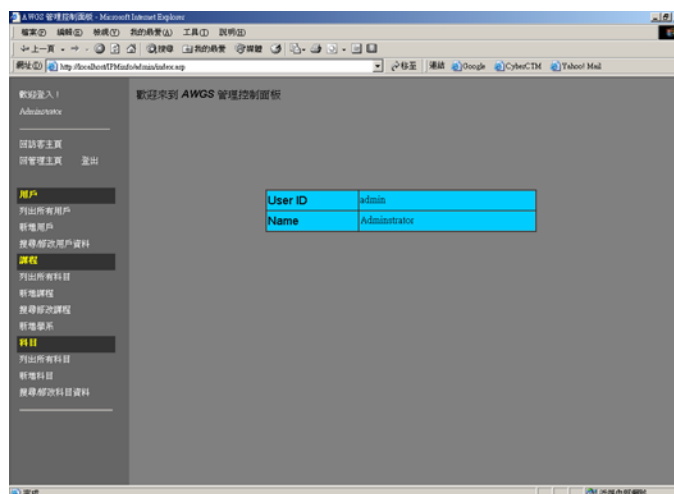
## For administrator

Typing “admin” in user name and password field, that is default value to enter the system.

Suggestion when you enter the system, change your password, but the password’s length mustn’t longer than 10 character.



According to your need to select the suitable item in left hand side. Such as search person, add new user, add or modify information.



Typing characters or user name or ID in suitable field to search the user. Like next picture. (if not input anything and click on search, that will list all user name.)



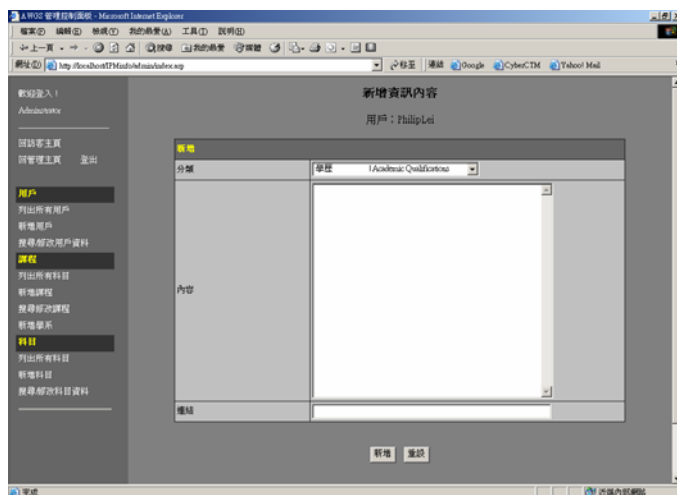
When you search your target user, you can add, delete or modify the user any information. Like next picture.



You can modify all user information, and only admin can change the user name, user ID, user group and belong to which school

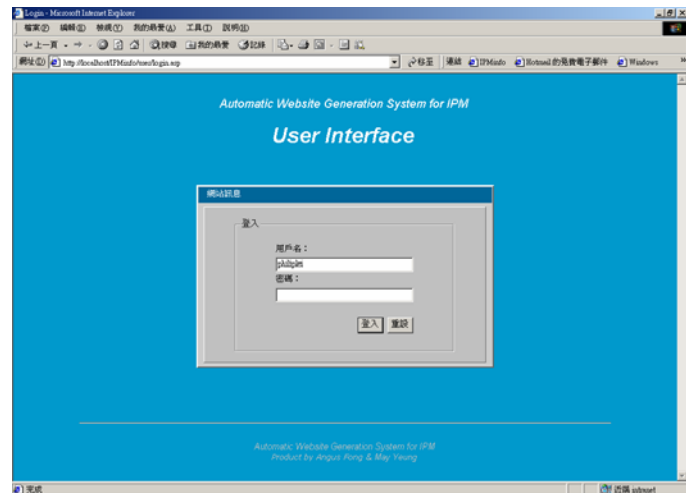


You can help user or yourself add more different kind of information and a link if you need

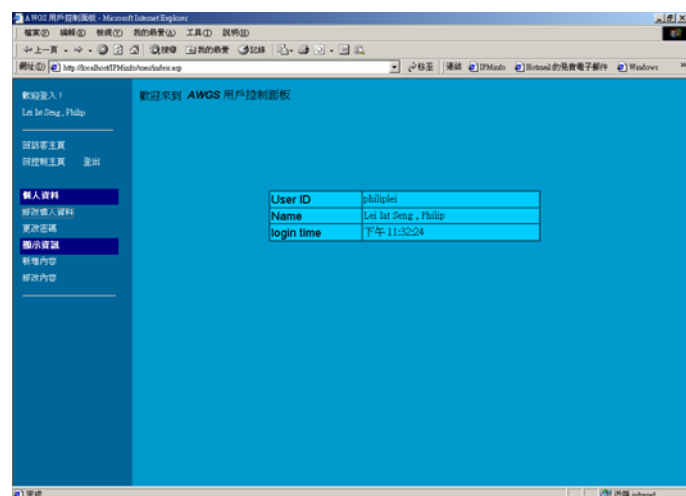


## For User:

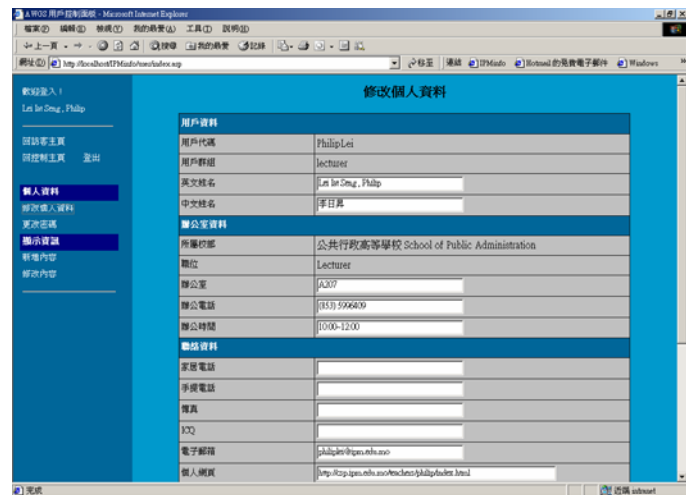
Typing your user name and password that provide by the administrator.



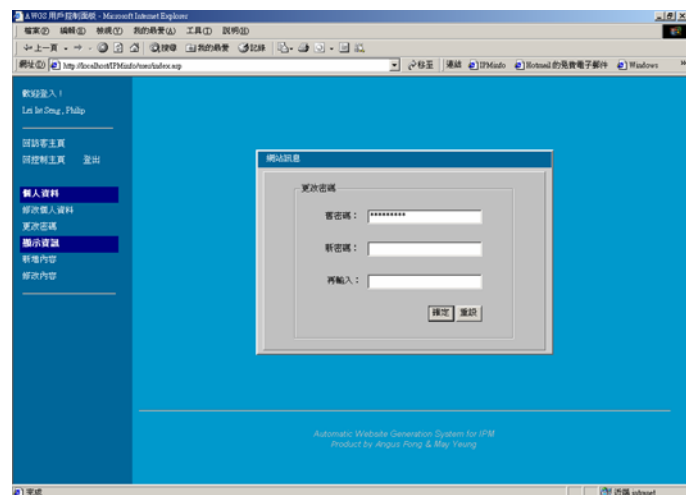
According to your need to select the suitable item in left hand side. Such as change password or personal information, add or modify information.



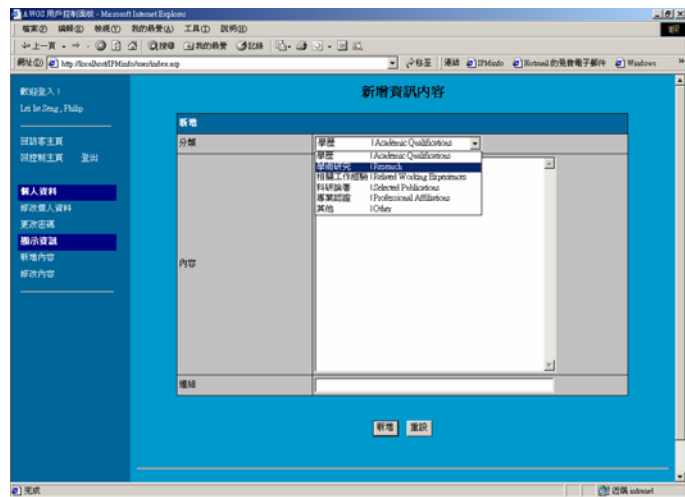
You can modify all your personal information, but you can't change the user name, user ID, user group and belong to which school



Suggestion to change your password when you receive from the administrator. But the new password length must not longer than 10 character.



You can add more different kind of information and a link if you need



You can delete or modify your information and input a number in an order column when you want to arrange information in order.

