15. Detailed Design:

Void application home page (void) {

While(True) {

If (register new member button is clicked) {

Registration window opens;

The user should start entering the new member's

name, age and ID;

The user chooses if the new member is a professor

Or a student then clicks submit;

If (Student radio button is clicked)

{

A new student with the entered data is added to

The students' system array list;

}

If (Professor radio button is clicked)

{

A new professor with the entered data is added

To the professors' array list;

}

Else {An error message is displayed;}

}

If (Reserve an empty classroom button is clicked)

{

The user should enter the desired day and time;

If (Submit button is clicked)

{

If (the user entered desired times)

{

The system pops up a message with the

Reserved classroom's name;

}

Else {the system pops up an error message;}

}

}

If (Add a new course button is clicked)

{

The user is asked to enter the course details;

The user must choose whether he wants to

Open that course as a new one or close it;

If (Submit button is clicked) {

If (the user entered all the desired data)

{

The system adds a new course with

The entered data to its array list of

Courses;

}

Else {the system pops up an error message;}

}

}

If (Add/Drop button is clicked)

{

The user is asked to enter the student

Data and the course code;

The system checks if the entered data

Is related to a current student or not

And so, does with the course code;

If (Submit button is clicked)

{

If (the student credit hours < 20 for

A GPA of 2.0 or more OR

The credit hours < 16 for

A GPA less than 2.0)

{

The system adds the student with the

Entered data to the course whose code

Is entered array of students;

}

Else {The do nothing;}

}

}

}

}