

# **User Interface Project**

## **SMU Access System**

Group Member: Yenyi Huang,  
Bandar AlTuraif,  
Qiang Dai

Date: 2013/5/11

## Content

I. Vision .....	4
a. Description .....	4
b. Design Decisions .....	4
c. Assumption.....	5
d. Future Tasks .....	6
II. Task Analysis .....	6
1) Data Model.....	6
2) Task Analysis.....	9
i. Eliciting tasks:.....	9
ii. High-level Tasks:.....	9
iii. Task descriptions:.....	10
3) Use case and Scenarios.....	33
1. Use Case Diagram.....	33
4) Hierarchical Task Analysis.....	34
III. Initial Design.....	44
1) Credo Matrix.....	46
2) Low Fidelity Prototype.....	47
4) Gestalts.....	53

5) Data Presentation.....	54
6) Usability Testing .....	55
IV. Detailed Prototype.....	60
1. Function Design.....	60
2. Error Message.....	66
3. Prototype.....	71
1) Login Interface.....	71
2) Home Page.....	72
3) Academic -Class Schedule.....	73
4) Academic-Class Search.....	74
5) Academic-Class Catalog.....	75
6) Academic-Class Drop.....	76
7) Academic-Grades.....	77
8) Financial Information-Account Summary.....	78
9) Financial Information-Financial Aid.....	79
10) Financial Information-Transaction Detail.....	80
11) Personal Information-Address.....	81
12) Personal Information-Address Add.....	82
13) Personal Information-Name.....	83

14) Personal Information-Name Add.....	84
15) Personal Information-Phone Number.....	85
16) Personal Information-Phone Number Add.....	86
17) Personal Information-Emergency.....	87
18) Personal Information-Emergency Add.....	88
19) Personal Information-Demographic.....	89
20) Personal Information-Ethnicity.....	90

# I. Vision

## a. Description

Students are automatically assigned an Access.SMU account during the initial account creation process. This allows them to view their personal information, emergency contact information, register for AARO (if applicable), view class schedule, enroll in classes, add/drop classes, view grades and view financial aid packages.

## b. Design Decisions

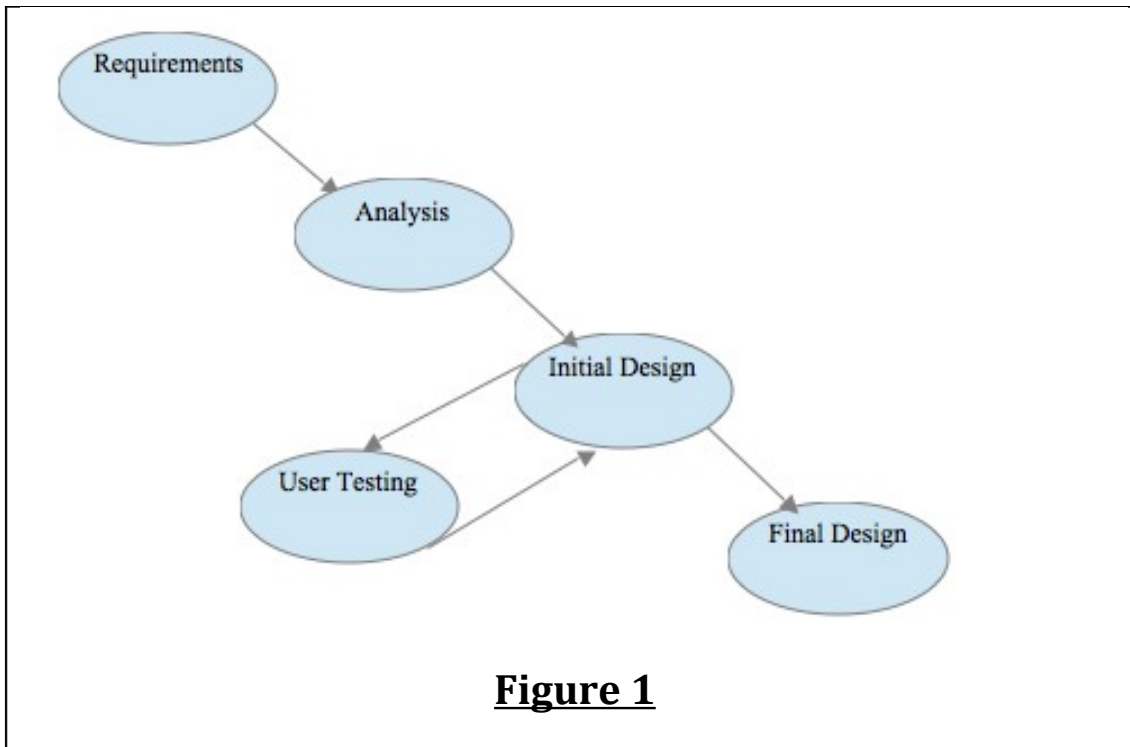
**Requirement:** This is first step of the project. We determine the main goal and fundamental functions of the project.

**Analysis:** We do investigations from our objective users, including students, faculties and parents. After getting the feedbacks from them, we change the initial requirement statement and add more functions according to the requirement of users.

**Design prototype:** This is the first design of windows for each functional part.

**Final UI Design:** After we finish the first prototype, we do usability test for it. For convenient and understandable goal, we change partial design of prototype and finish the final user interface design.

Four states above is the whole design procedure, and their relationship can be draw in the diagram as the “Figure 1” below.



### **c. Assumption**

In this project, we assume that students' account has been established and the password has been set.

Another important assumption is that the account of library and blackboard can cooperate with the access accounts which means once we login the access system, we can directly go to cooperate hyper links without login again.

## **d. Future Tasks**

Only the user interfaces for student role are addressed in this project; therefore, user interfaces for employees, parents, and administrators need to be done in the future. Another future task is to provide new, useful features, such as library access, campus activity information, open hour of gym and offices, parking notice, and access to job postings.

# **II. Task Analysis**

## **1) Data Model**

As can be seen, the data model for this project will consist of four primary Entities: Student, Financial Info, Academics, and Personal Info. The student Entity has five attributes: Student ID, Gender, DOB, Nation ID, and Religion. This student Entity consists of one Financial Info Entity, Academics Entity, and Personal Info Entity.

A Financial Info Entity could have multiple financial aid Entities to document financial aid records and multiple account Entities to keep summary of financial information, while each financial aid and account Entity can belong to one specific financial info Entity. An account Entity may have multiple transaction Entities to store detailed data for each transaction, but each transaction Entity could only belong to one account Entity.

A personal info Entity could have multiple name, phone number, address, emergency contact, citizen information, ethnicity Entities. Each of them keeps a specific category of personal data and could only belong to one personal info Entity.

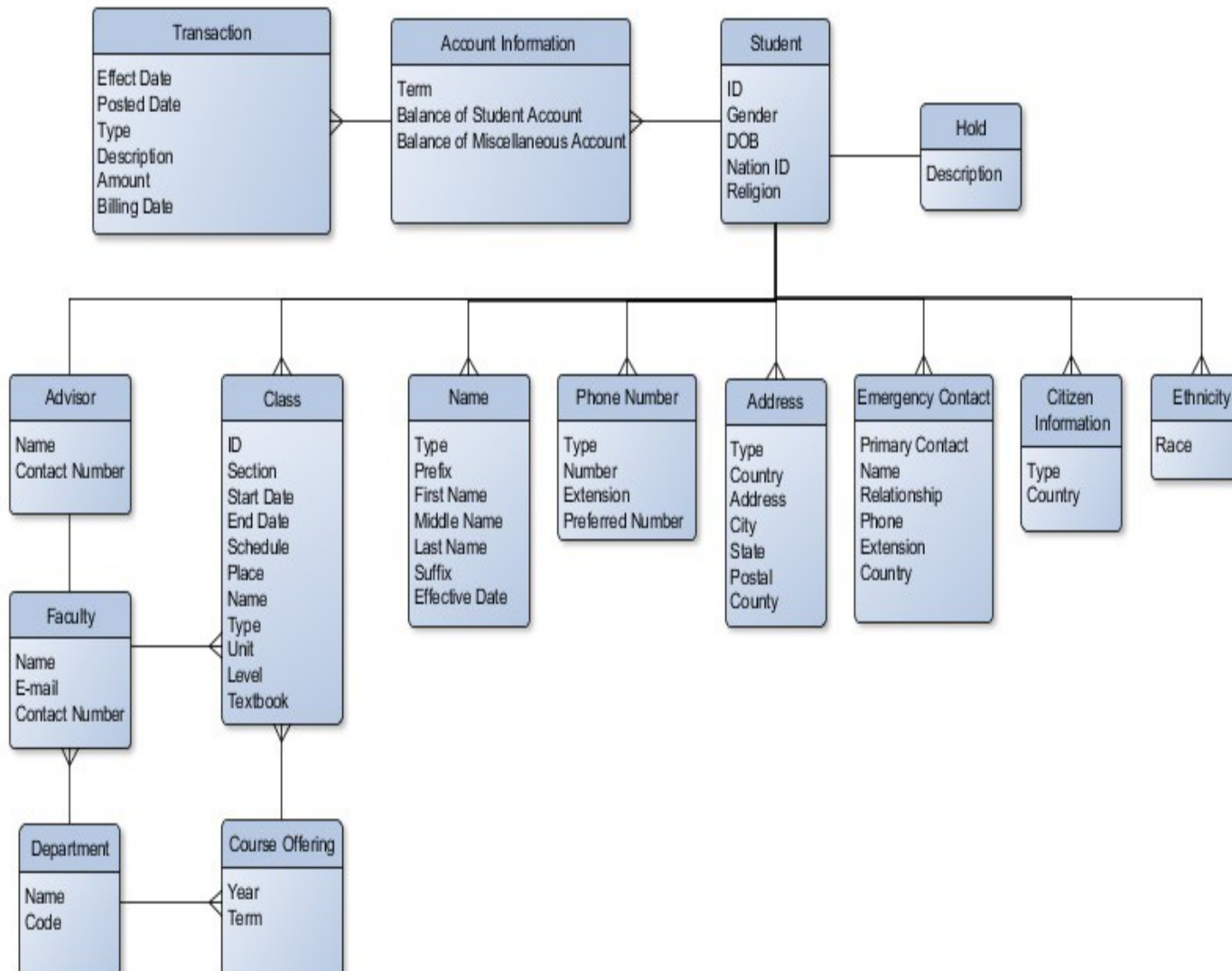
As for academic Entity, it could have multiple class Entities, multiple record Entities, and only

one transcript Entity. A class Entity has 15 attributes to store description data for a specific course and each class has a record Entity to store the grading information. Multiple record Entities could be associated to one transcript Entity.

Since a department could have many faculty members and offer many courses, a department Entity has multiple faculty Entities and courses Entities. Each course Entity could have multiple class Entities, for example, one course may have different classes, given each different section IDs.

Besides student Entity, an academic Entity could also belong to Advisor and Hold Entity, which means an advisor or a hold can be assigned to many academics records. For example, several students can have the same advisor. In addition, it is one to one relationship between advisor and faculty.





## **2) Task Analysis**

### **i. Eliciting tasks:**

The following is a list of techniques we will use to elicit task information from our prospective customers.

#### **1. Customer interviews:**

These can be done on a one on one level or with a group of potential users of this system. These will be informal and consist of five to six questions at the most.

#### **2. Questionnaires and Surveys:**

These will be sent to the customer to hand out to perspective users of this system. This can reach a larger number of users and should be less than one page.

#### **3. Customer observation:**

Time will be spent at the customer's location observing how the potential users perform some of the defined tasks now.

### **ii. High-level Tasks:**

The system will perform the following high-level tasks:

- 1 View/Edit personal information
  - 1.1 Edit/View Addresses
  - 1.2 Edit/View Names
  - 1.3 Edit/View Phone Numbers
  - 1.4 Edit/View Emergency Contact Information
  - 1.5 Edit/View Demographic Data
  - 1.6 Edit/View Ethnicity
- 2 View/Edit Academics Information
  - 2.1 View Class Schedule
  - 2.2 Search for Classes
  - 2.3 Browse Course Catalog
  - 2.4 View Grades
  - 2.5 Enroll in Classes
    - 2.5.1 Add Classes
    - 2.5.2 Drop Classes
- 3 View Financial Information
  - 3.1 View Account Summary
  - 3.2 View Transaction Details
  - 3.3 View Financial Aid

### iii. Task descriptions:

For the View/Edit Personal Information task we have the following subtasks:

- 1.1. Edit/View Addresses: personal information in this use case is address.
  - a) Task description: This use case describes how a Student uses the system to view the personal information held by the University and submit a request to change the personal information.
  - b) Actors:
    1. **Student:** The Student is registered on a course at the University and can view

personal information about the Student held by the University.

2. **Student Information System (SIS)**: The system storing the student personal information.
  3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
  2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
  3. Display Personal Information: The **SIS** displays personal information and an option to change personal information.
  4. Change Personal Information: The **Student** selects to change personal information. The **SIS** displays editable personal information and options to cancel or submit a change request.
  5. Edit Personal Information: The **Student** edits the personal information.
  6. Submit Change Request: The **Student** selects to submit a change request to the **SIS**.
  7. Update Personal Information: The **SIS** is updated with the changed personal information for the **Student**.
  8. Acknowledge Change Request Submission: The **SIS** displays a message to inform the **Student** that a change request has been submitted and an acknowledgement option. The **Student** selects to acknowledge the change request message. The system displays the personal information and an option to change the personal information.

9. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Change Request Cancelled: At **step 5** or **step 6** if the **Student** selects to cancel the change request, the use case resumes from **step 3**.
2. Handle communication failures: At **step 3**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 3**. If there is still no response from the **SIS**, an event log entry will be created to record the failure of the communications link to the **SIS**. The event log entry includes the type of failure. The event log will be sent to the **Service Administrator** to inform them that communication with the **SIS** has been lost. Resume the basic flow at **step 9**.

1.2. Edit/View Names: same as use case 1.1, personal information in this use case is names.

- a) Task description: This use case describes how a Student uses the system to view the names held by the University and submit a request to change the names.
- b) Actors:
  1. **Student**: The Student is registered on a course at the University and can view names about the Student held by the University.
  2. **Student Information System (SIS)**: The system storing the student names.
  3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
- d) Postconditions: The transaction terminates normally with no system failures.

e) Basic Flow of Events:

1. Launch System: The use case begins when the actor *Student* launches the URL of the system in a web browser.
2. Authenticate Student: The *SIS* will authenticate the user name and password entered by the *Student*.
3. Display Names: The *SIS* displays names and an option to change names.
4. Change Names: The *Student* selects to change names. The *SIS* displays editable names and options to cancel or submit a change request.
5. Edit Names: The *Student* edits the names.
6. Submit Change Request: The *Student* selects to submit a change request to the *SIS*.
7. Update Names: The *SIS* is updated with the changed names for the *Student*.
8. Acknowledge Change Request Submission: The *SIS* displays a message to inform the *Student* that a change request has been submitted and an acknowledgement option. The *Student* selects to acknowledge the change request message. The system displays the names and an option to change the names.
9. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Change Request Cancelled: At *step 5* or *step 6* if the *Student* selects to cancel the change request, the use case resumes from *step 3*.
2. Handle communication failures: At *step 3*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 3*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the

communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 9*.

- 1.3. Edit/View Phone Numbers: same as use case 1.1, personal information in this use case is phone numbers.
- a) Task description: This use case describes how a Student uses the system to view the phone numbers held by the University and submit a request to change the phone numbers.
  - b) Actors:
    - 1. **Student**: The Student is registered on a course at the University and can view phone numbers about the Student held by the University.
    - 2. **Student Information System (SIS)**: The system storing the student phone numbers.
    - 3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
  - c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
  - d) Postconditions: The transaction terminates normally with no system failures.
  - e) Basic Flow of Events:
    - 1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
    - 2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
    - 3. Display Phone numbers: The **SIS** displays phone numbers and an option to change phone numbers.
    - 4. Change Phone numbers: The **Student** selects to change phone numbers. The **SIS** displays editable phone numbers and options to cancel or submit a change request.

5. Edit Phone numbers: The *Student* edits the phone numbers.
6. Submit Change Request: The *Student* selects to submit a change request to the *SIS*.
7. Update Phone numbers: The *SIS* is updated with the changed phone numbers for the *Student*.
8. Acknowledge Change Request Submission: The *SIS* displays a message to inform the *Student* that a change request has been submitted and an acknowledgement option. The *Student* selects to acknowledge the change request message. The system displays the phone numbers and an option to change the phone numbers.
9. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Change Request Cancelled: At *step 5* or *step 6* if the *Student* selects to cancel the change request, the use case resumes from *step 3*.
2. Handle communication failures: At *step 3*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 3*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 9*.

1.4. Edit/View Emergency Contact Information: same as use case 1.1, personal information in this use case is emergency contact information.

a) Task description: This use case describes how a Student uses the



system to view the emergency contact information held by the University and submit a request to change the emergency contact information.

b) Actors:

1. **Student**: The Student is registered on a course at the University and can view emergency contact information about the Student held by the University.
2. **Student Information System (SIS)**: The system storing the student emergency contact information.
3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.

c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.

d) Postconditions: The transaction terminates normally with no system failures.

e) Basic Flow of Events:

1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
3. Display Emergency contact information: The **SIS** displays emergency contact information and an option to change emergency contact information.
4. Change Emergency contact information: The **Student** selects to change emergency contact information. The **SIS** displays editable emergency contact information and options to cancel or submit a change request.
5. Edit Emergency contact information: The **Student** edits the emergency contact information.
6. Submit Change Request: The **Student** selects to submit a change request to the **SIS**.
7. Update Emergency contact information: The **SIS** is updated with the changed

emergency contact information for the *Student*.

8. Acknowledge Change Request Submission: The *SIS* displays a message to inform the *Student* that a change request has been submitted and an acknowledgement option. The *Student* selects to acknowledge the change request message. The system displays the emergency contact information and an option to change the emergency contact information.
9. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Change Request Cancelled: At *step 5* or *step 6* if the *Student* selects to cancel the change request, the use case resumes from *step 3*.
  - i) Handle communication failures: At *step 3*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 3*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 9*.

- 1.5. Edit/View Demographic Data: same as use case 1.1, personal information in this

use case is demographic data.

a) Task description: This use case describes how a Student uses the system to view the demographic data held by the University and submit a request to change the demographic data.

b) Actors:

1. **Student**: The Student is registered on a course at the University and can view demographic data about the Student held by the University.
2. **Student Information System (SIS)**: The system storing the student demographic data.
3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.

c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.

d) Postconditions: The transaction terminates normally with no system failures.

e) Basic Flow of Events:

1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
3. Display Demographic data: The **SIS** displays demographic data and an option to change demographic data.
4. Change Demographic data: The **Student** selects to change demographic data. The **SIS** displays editable demographic data and options to cancel or submit a change request.
5. Edit Demographic data: The **Student** edits the demographic data.
6. Submit Change Request: The **Student** selects to submit a change request to the **SIS**.
7. Update Demographic data: The **SIS** is updated with the changed demographic data

for the *Student*.

8. Acknowledge Change Request Submission: The *SIS* displays a message to inform the *Student* that a change request has been submitted and an acknowledgement option. The *Student* selects to acknowledge the change request message. The system displays the demographic data and an option to change the demographic data.
9. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Change Request Cancelled: At *step 5* or *step 6* if the *Student* selects to cancel the change request, the use case resumes from *step 3*.
  - i) Handle communication failures: At *step 3*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 3*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 9*.

1.6. Edit/View Ethnicity: same as use case 1.1, personal information in this use case is

ethnicity.

a) Task description: This use case describes how a Student uses the system to view the ethnicity held by the University and submit a request to change the ethnicity.

b) Actors:

1. **Student**: The Student is registered on a course at the University and can view ethnicity about the Student held by the University.
2. **Student Information System (SIS)**: The system storing the student ethnicity.
3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.

c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.

d) Postconditions: The transaction terminates normally with no system failures.

e) Basic Flow of Events:

1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
3. Display Ethnicity: The **SIS** displays ethnicity and an option to change ethnicity.
4. Change Ethnicity: The **Student** selects to change ethnicity. The **SIS** displays editable ethnicity and options to cancel or submit a change request.
5. Edit Ethnicity: The **Student** edits the ethnicity.
6. Submit Change Request: The **Student** selects to submit a change request to the **SIS**.
7. Update Ethnicity: The **SIS** is updated with the changed ethnicity for the **Student**.
8. Acknowledge Change Request Submission: The **SIS** displays a message to inform the **Student** that a change request has been submitted and an acknowledgement option. The **Student** selects to acknowledge the change request message. The

system displays the ethnicity and an option to change the ethnicity.

9. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Change Request Cancelled: At *step 5* or *step 6* if the *Student* selects to cancel the change request, the use case resumes from *step 3*.

i) Handle communication failures: At *step 3*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 3*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 9*.

For the View/Edit Academics Information task we have the following subtasks:

2.1. View class schedule

a) Task description: This use case describes how a Student uses the system to view their class schedule held by the University.

- b) Actors:
  - 1. **Student**: The Student is registered on a course at the University and can view class schedule about the Student held by the University.
  - 2. **Student Information System (SIS)**: The system storing the student class schedule.
  - 3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems. The student must have enrolled in at least one course at any semester past or present..
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
  - 1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
  - 2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
  - 3. Select academic semester-year: The **Student** selects the academic semester-year of courses taken.
  - 4. Display Class Schedule: The **SIS** displays class schedule for academic semester-year chosen.
  - 5. Use Case Ends: The use case ends.
- f) Alternative Flows:
  - 1. Handle communication failures: At **step 3**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 3**. If there is still no response from the **SIS**, an event log entry will be created to record the failure of the

communications link to the **SIS**. The event log entry includes the type of failure. The event log will be sent to the **Service Administrator** to inform them that communication with the **SIS** has been lost. Resume the basic flow at **step 5**.

## 2.2. Search for classes

- a) Task description: This use case describes how a Student uses the system to search for classes.
- b) Actors:
  - 1. **Student**: The Student must be registered as a student with the University.
  - 2. **Student Information System (SIS)**: The system storing classes.
  - 3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
  - 1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
  - 2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
  - 3. Select academic semester-year: The **Student** selects the current academic semester-year or future academic semester-year to search.
  - 4. Select course subject: The **Student** can select the course subject to limit results.
  - 5. Select course number: The **Student** can select the course number to limit results.
  - 6. Select course career: The **Student** can select the course career to limit results.
  - 7. Select university curriculum: The **Student** can select the university curriculum to limit results.
  - 8. Display Classes: The **SIS** displays classes for academic semester-year chosen.
  - 9. Use Case Ends: The use case ends.



f) Alternative Flows:

1. Handle communication failures: At **step 8**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 8**. If there is still no response from the **SIS**, an event log entry will be created to record the failure of the communications link to the **SIS**. The event log entry includes the type of failure. The event log will be sent to the **Service Administrator** to inform them that communication with the **SIS** has been lost. Resume the basic flow at **step 9**.

2.3. Browse course catalog

- a) Task description: Students may view the course catalog description of a course before registering. They are especially likely to view it if they are prevented from enrolling in a course because of a missing prerequisite.
- b) Actors:
  1. **Student**: The Student must be registered as a student with the University.
  2. **Student Information System (SIS)**: The system storing classes.
  3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
  1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
  2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.

3. Select course subject: The **Student** can select the course subject to limit results.
4. Display Classes: The **SIS** displays classes for the course subject chosen.
5. Select course number: The **Student** can select the course number they want to view.
6. Display Class Information: The **SIS** displays class information.
7. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Handle communication failures: At **step 4 or step 6** if the **SIS** cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 4 or step 6**. If there is still no response from the **SIS**, an event log entry will be created to record the failure of the communications link to the **SIS**. The event log entry includes the type of failure. The event log will be sent to the **Service Administrator** to inform them that communication with the **SIS** has been lost. Resume the basic flow at **step 7**.

2.4. View grades

- a) Task description: This use case describes how a Student uses the system to view their grades held by the University.
- b) Actors:
  1. **Student**: The Student is registered on a course at the University and can view grades about the Student held by the University.
  2. **Student Information System (SIS)**: The system storing the student grades.
  3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.

- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems. The student must have completed at least one semester.
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
  - 1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
  - 2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
  - 3. Select academic semester-year: The **Student** selects the academic semester-year of courses taken.
  - 4. Display Grades: The **SIS** displays grades for courses taken.
  - 5. Use Case Ends: The use case ends.
- f) Alternative Flows:
  - 1. Handle communication failures: At **step 3**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 3**. If there is still no response from the **SIS**, an event log entry will be created to record the failure of the communications link to the **SIS**. The event log entry includes the type of failure. The event log will be sent to the **Service Administrator** to inform them that communication with the **SIS** has been lost. Resume the basic flow at **step 5**.

## 2.5. Enroll in classes

### 2.5.1 Add classes

- a) Task description: This use case describes how a Student uses the system to add classes.

- b) Actors:
  - 1. **Student**: The Student is registered at the University and eligible to enroll in classes.
  - 2. **Student Information System (SIS)**: The system storing the classes.
  - 3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems. The student must be eligible to enroll in classes.
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
  - 1. Search for classes: Do **use case 2.2**.
  - 2. Add class: The student selects the class they want to add.
  - 3. Acknowledge Add Class Request: The **SIS** displays a message to inform the **Student** that the class addition request has been submitted and an acknowledgement option. The **Student** selects to acknowledge the change request message. The system displays the class schedule and an option to change the class schedule.
  - 4. Use Case Ends: The use case ends.
- f) Alternative Flows:
  - 1. Add Request Cancelled: At **step 2**, if the **Student** selects to cancel the add request, the use case resumes from **step 1**.
  - 2. Add Request Illegal: At **step 2**, if pre-requests classes are not met or registration stop for non-payment of outstanding bill, the use case resumes from **step 1**.
  - 3. Handle communication failures: At **step 2**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications

are re-established, the basic flow is resumed at *step 2*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 4*.

#### 2.5.2 Drop classes

- a) Task description: This use case describes how a Student uses the system to drop classes.
- b) Actors:
  - 1. **Student**: The Student is registered at the University and eligible to enroll in classes.
  - 2. **Student Information System (SIS)**: The system storing the classes.
  - 3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems. The student must be eligible to enroll in classes.
- d) Postconditions: The transaction terminates normally with no system failures.
- e) Basic Flow of Events:
  - 1. View class schedule: Do *use case 2.1*.
  - 2. Drop class: The student selects the class they want to drop.
  - 3. Acknowledge Drop Class Request: The *SIS* displays a message to inform the *Student* that the class addition request has been submitted and an acknowledgement option. The *Student* selects to acknowledge the change request message. The system displays the class schedule and an option to change the class schedule.
  - 4. Use Case Ends: The use case ends.
- f) Alternative Flows:
  - 1. Drop Request Cancelled: At *step 2*, if the *Student* selects to cancel the drop

- request, the use case resumes from *step 1*.
2. Drop Request Illegal: At *step 2*, if registration stop for non-payment of outstanding bill, the use case resumes from *step 1*.
  3. Handle communication failures: At *step 2*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, And if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 2*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 4*.

For the View financial information task we have the following subtasks:

### 3.1 View Account Summary

- a) Task description: This use case describes how a Student uses the system to view his financial information held by the University
- b) Actors:
  1. *Student*: The Student is registered on a course at the University and can view his financial information about the Student held by the University.
  2. *Student Information System (SIS)*: The system storing the student financial information.
- c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
- d) Postconditions: The transaction terminates normally while the financial information is displayed with no system failures.
- e) Basic Flow of Events:
  1. Launch System: The use case begins when the actor *Student* launches the URL of

- the system in a web browser.
2. Authenticate Student: The **SIS** will authenticate the user name and password entered by the **Student**.
  3. Display Financial Information: The **SIS** displays **Student**'s financial summary information
  4. Use Case Ends: The use case ends.
- f) Alternative Flows:
1. Handle communication failures: At **step 3**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, and if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 3**. If there is still no response from the **SIS**, an event log entry will be created to record the failure of the communications link to the **SIS**. The event log entry includes the type of failure. The event log will be sent to the **Service Administrator** to inform them that communication with the **SIS** has been lost. Resume the basic flow at **step 4**.

### 3.2 View account detail

- a) Task description: This use case describes how a Student uses the system to view his financial information held by the University
- b) Actors:
  1. **Student**: The Student is registered on a course at the University and can view his financial information.
  2. **Student Information System (SIS)**: The system storing the student financial

information.

- g) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.
- h) Postconditions: The transaction terminates normally while the financial detail information is displayed with no system failures.
- i) Basic Flow of Events:
  - 1. Launch System: The use case begins when the actor *Student* launches the URL of the system in a web browser.
  - 2. Authenticate Student: The *SIS* will authenticate the user name and password entered by the *Student*.
  - 3. Display Financial Information: The *SIS* displays detail descriptions and charged amount for each payment.
  - 4. Use Case Ends: The use case ends.
- j) Alternative Flows:
  - 1. Handle communication failures: At *step 3*, if the *SIS* cannot be contacted or does not reply within the set communication time-out period, and if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the *Student* of the communication error. The *SIS* will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at *step 3*. If there is still no response from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 4*.

### 3.3 View financial aid

- a) Task description: This use case describes how a Student uses the system to view the



personal information held by the University and submit a request to change the personal information.

b) Actors:

1. **Student**: The Student is registered on a course at the University and can view personal information about the Student held by the University.
2. **Student Information System (SIS)**: The system storing the student personal information.
3. **Service Administrator**: User of University MIS system who receives reports of system failures and can fix them.

c) Preconditions: The Student must be registered as a student with the University. The Student must have a username and password to access University systems.

d) Postconditions: The transaction terminates normally with no system failures.

e) Basic Flow of Events:

1. Launch System: The use case begins when the actor **Student** launches the URL of the system in a web browser.
2. Authenticate Student: The **SIS** will authenticate the user name a password entered by the **Student**.
3. Request Financial Aid Information: The **Student** sends a request asking the **SIS** to display financial aid information.
4. Display Financial Aid Information: The **SIS** displays the financial aid information.
5. Use Case Ends: The use case ends.

f) Alternative Flows:

1. Handle communication failures: At **step 3**, if the **SIS** cannot be contacted or does not reply within the set communication time-out period, and if the communication link has failed more times than the communication retry number, then communication is abandoned and the system informs the **Student** of the communication error. The **SIS** will be contacted until the number of retry attempts, indicated by the communication retry number, has completed. If communications are re-established, the basic flow is resumed at **step 3**. If there is still no response

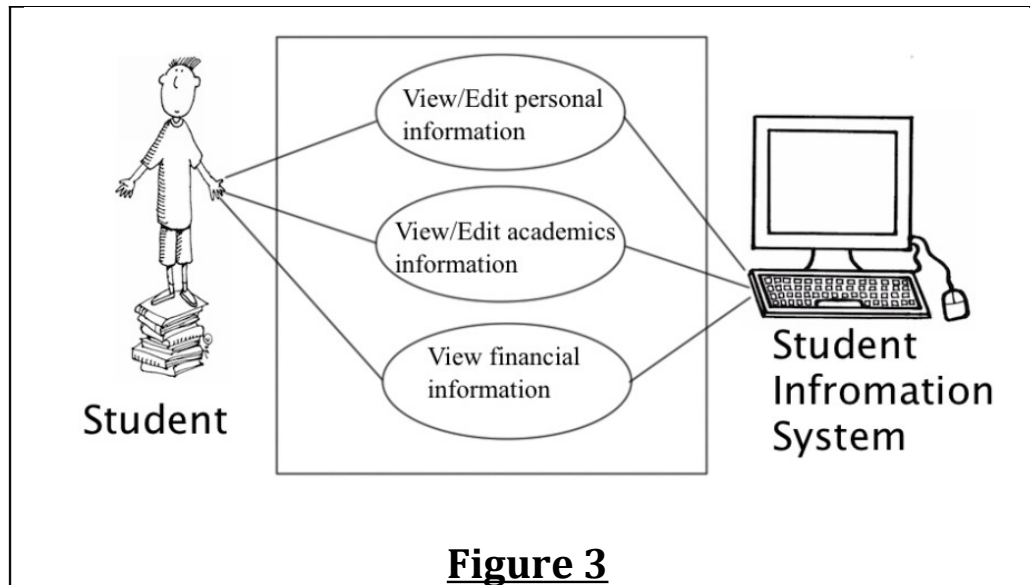
from the *SIS*, an event log entry will be created to record the failure of the communications link to the *SIS*. The event log entry includes the type of failure. The event log will be sent to the *Service Administrator* to inform them that communication with the *SIS* has been lost. Resume the basic flow at *step 4*.

### 3) Use case and Scenarios

The following section describes the typical use case and scenarios for this system.

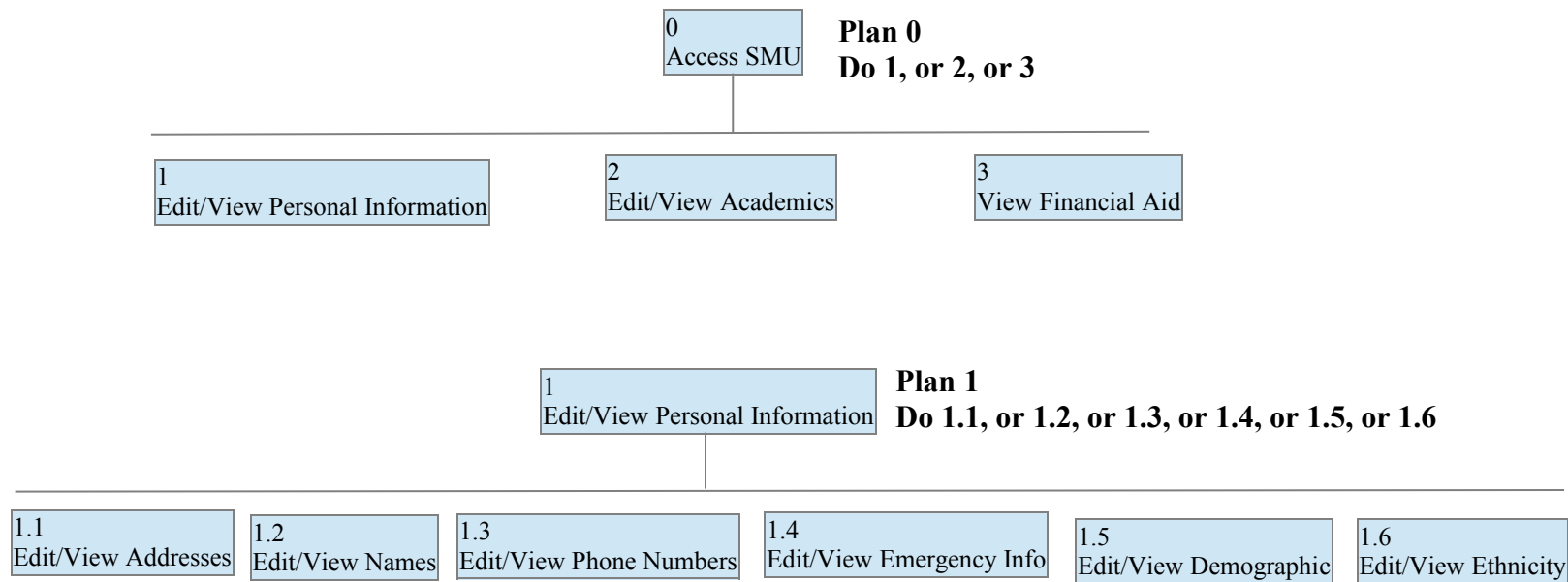
#### 1. Use Case Diagram

The use case for this system is illustrated in figure 3. This was derived from the tasks listed in section 2.



## 4) Hierarchical Task Analysis

Because this project includes three main tasks: “View/Edit personal information”, “View/Edit Academics Information” and “View Financial Information”, three hierarchical task analyses are made for each main task



2  
Edit/View Academics

**Plan 2**

**Do 2.1, or 2.2, or 2.3, or 2.4, or 2.5, or 2.6**

2.1  
View Class Schedule

2.2  
Search for Classes

2.3  
Display Catalog

2.4  
View Grades

2.5  
Add Classes

2.6  
Drop Classes

3  
View Financial Aid

**Plan 3**

**Do 3.1, or 3.2, or 3.3**

3.1  
View Account Summary

3.2  
View Transaction Details

3.3  
View Financial Aid

1.1  
Edit/View Addresses

**Plan 1.1**

**Do 1.1.1, 1.1.2, 1.1.3**

**If do 1.1.4, then do 1.1.5, 1.1.6**

1.1.1  
Launch System

1.1.2  
Authenticate User

1.1.3  
View Addresses

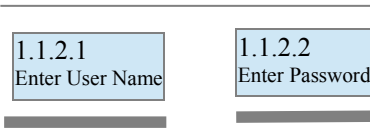
1.1.4  
Change Addresses

1.1.5  
Update Addresses

1.1.6  
Acknowledge Change

**Plan 1.1.2**

**Do 1.1.2.1, 1.1.2.2**



1.2  
Edit/View Names

Plan 1.2  
Do 1.2.1, 1.2.2, 1.2.3  
If do 1.2.4, then do 1.2.5, 1.2.6

1.2.1  
Launch System

1.2.2  
Authenticate User

1.2.3  
View Addresses

1.2.4  
Change Addresses

1.2.5  
Update Addresses

1.2.6  
Acknowledge Change

Plan 1.2.2  
Do 1.2.2.1, 1.2.2.2

1.2.2.1  
Enter User Name

1.2.2.2  
Enter Password

1.3  
Edit/View Phone Numbers

Plan 1.3  
Do 1.3.1, 1.3.2, 1.3.3  
If do 1.3.4, then do 1.3.5, 1.3.6

1.3.1  
Launch System

1.3.2  
Authenticate User

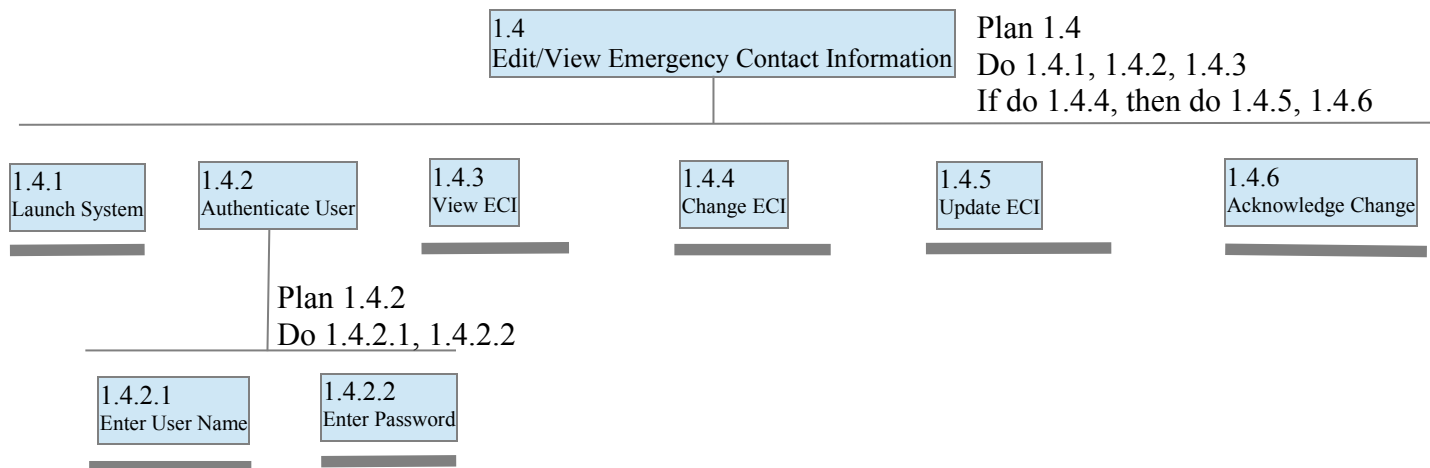
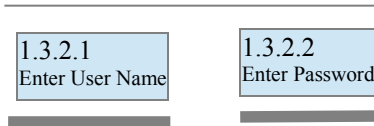
1.3.3  
View Phone Numbers

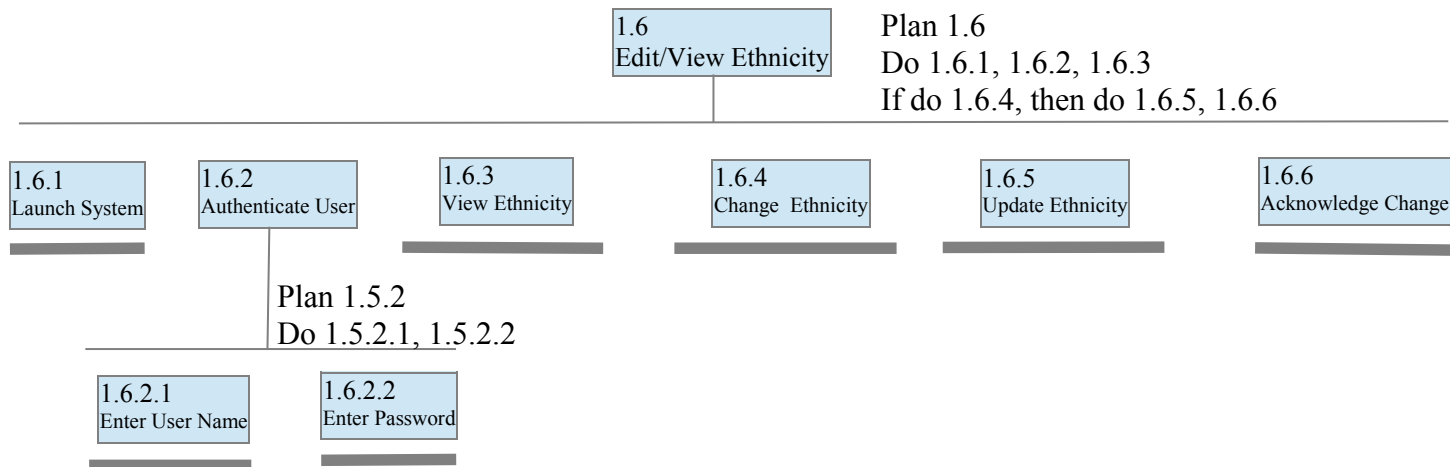
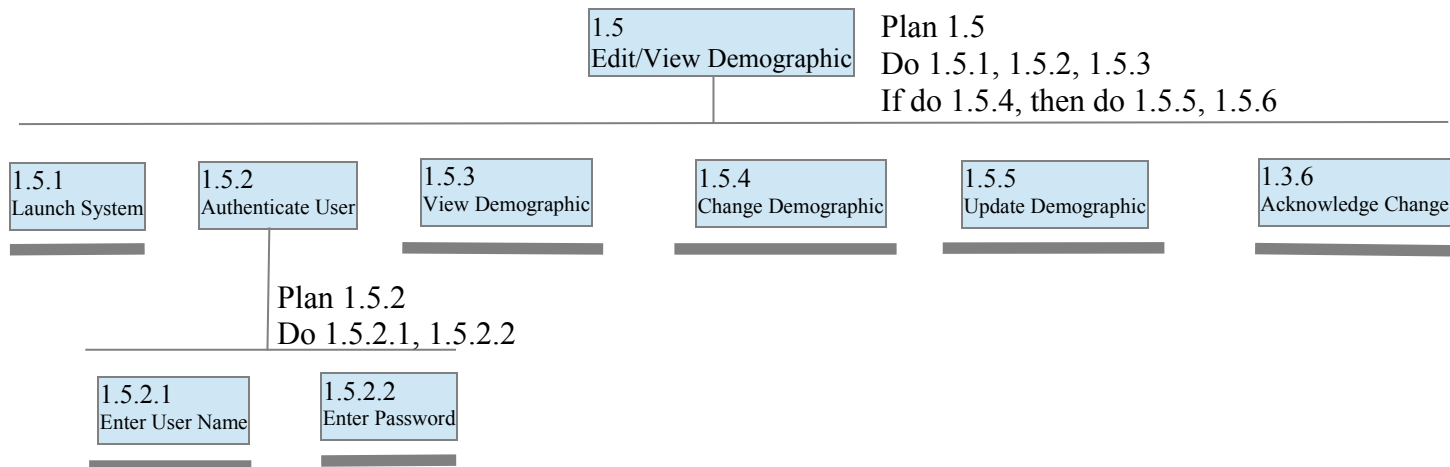
1.3.4  
Change Phone Numbers

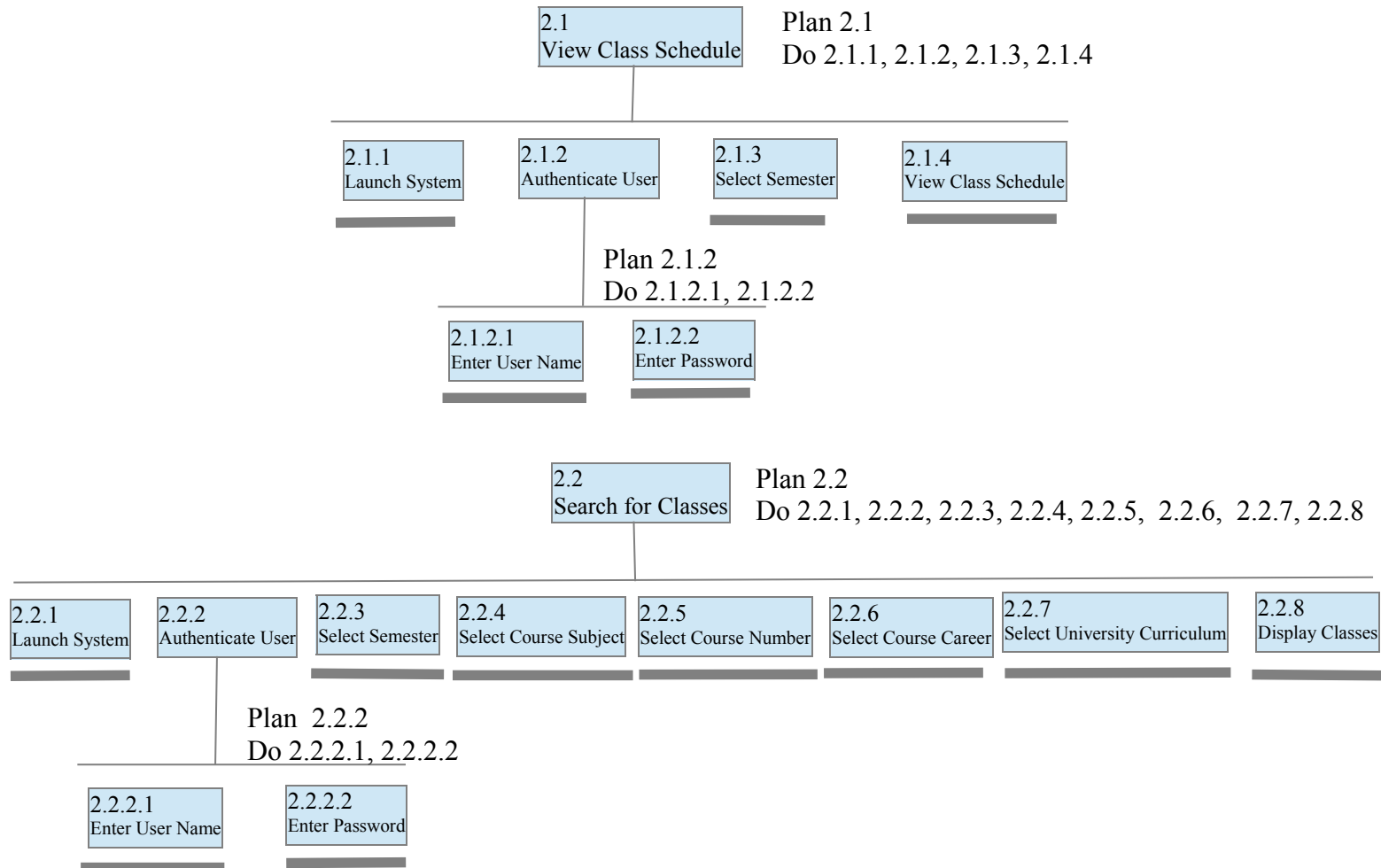
1.3.5  
Update Phone Numbers

1.3.6  
Acknowledge Change

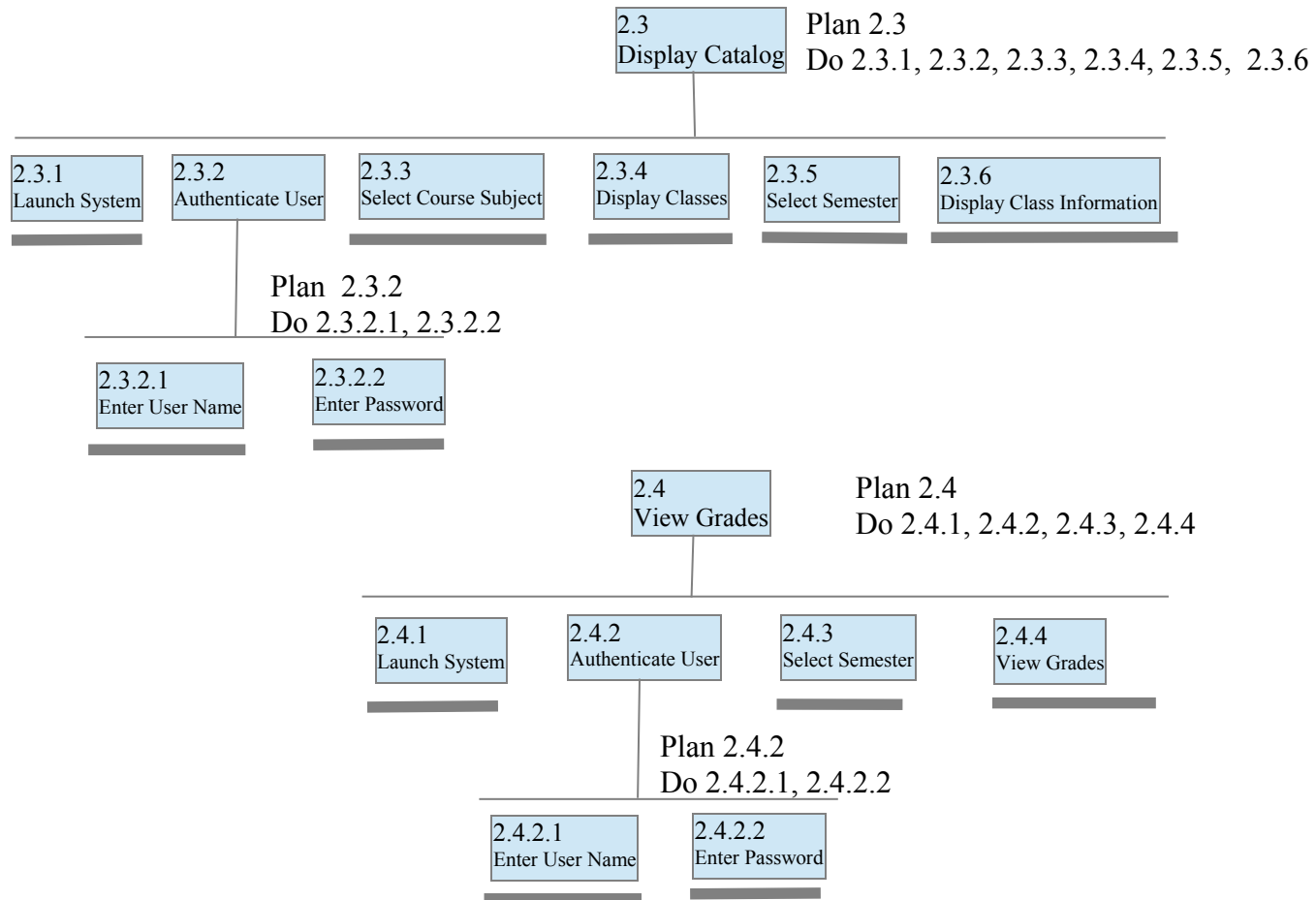
Plan 1.3.2  
Do 1.3.2.1, 1.3.2.2

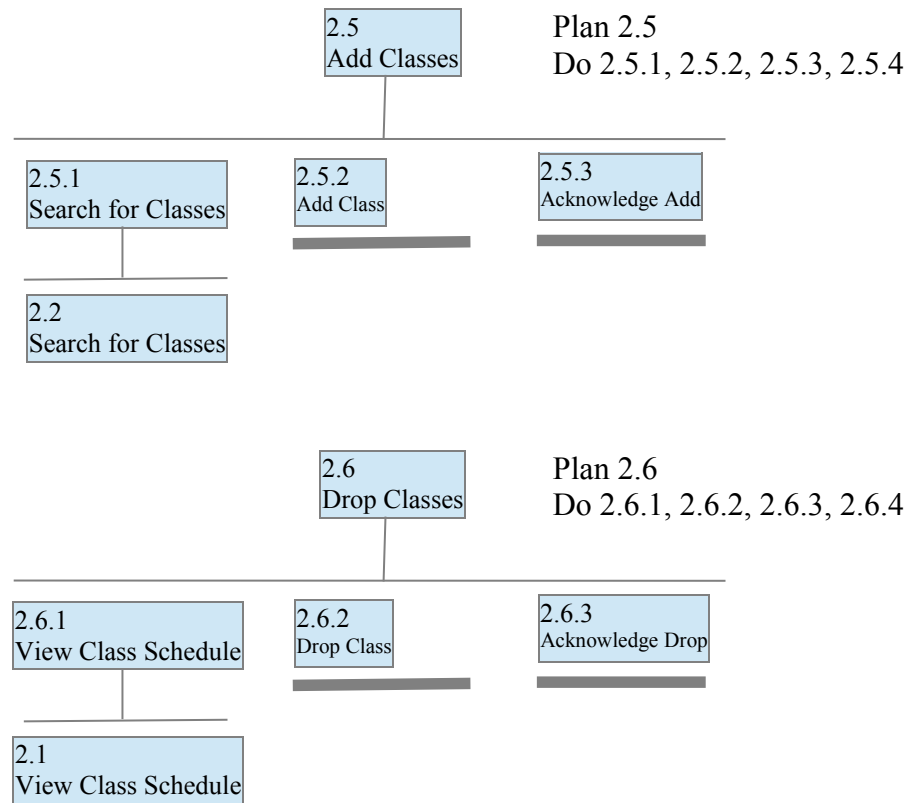


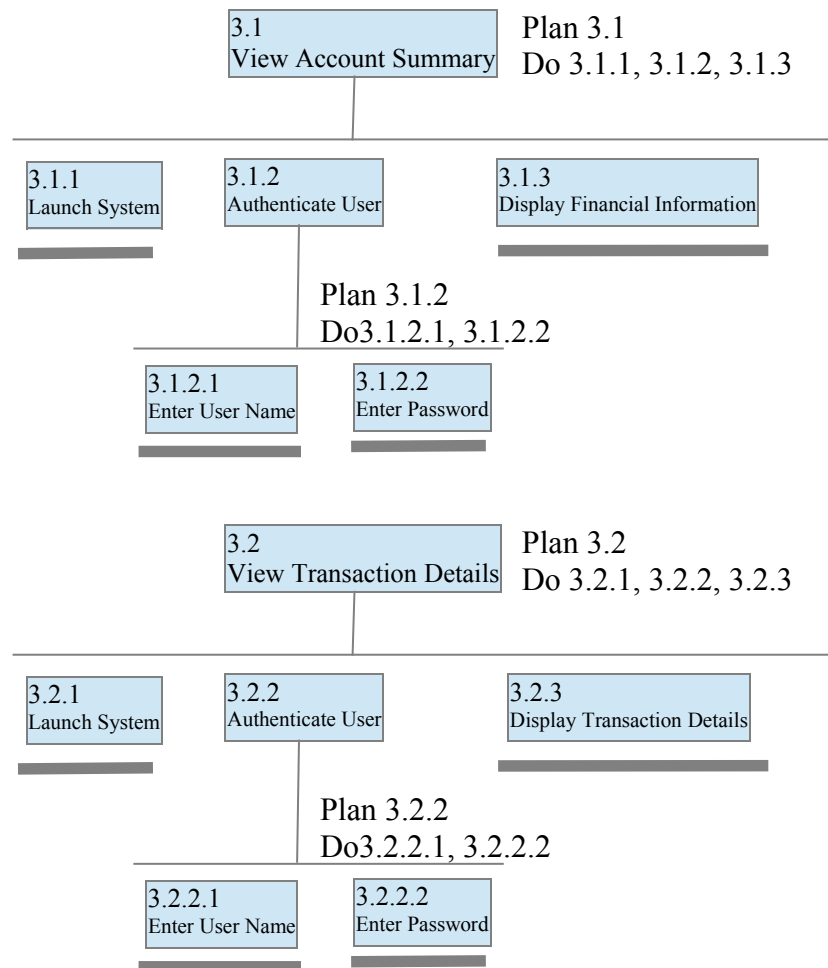


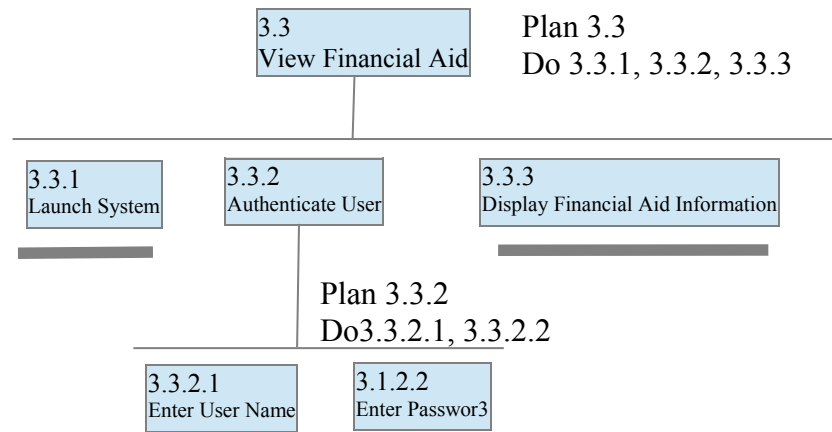
































### **III. Initial Design**

An sitemap below give a overview ofthe whole website pages including three main part: “Financial Information”, “Personal Information” and “Academic”.

- ▼  Home
  - ▼  Financial Info
    -  Account Summary
    -  Transaction Details
    -  Financial Aid
  - ▼  Personal Info
    - ▼  Address
      -  Add
    - ▼  Name
      -  Add
    - ▼  Phone Number
      -  Add
    - ▼  Emergency
      -  Add
    -  Demographic
    -  Ethnicity
  - ▼  Academic
    -  Class Schedule
    -  Search
    -  Catalog

## **1) Credo Matrix**

We can also check the internal consistency of our design. Here is an example: a check that all relevant data in the database can be handled by the user through some virtual window (assuming reasonable functions).

C means that the data can be Created, R read, E edited, D deleted, and O that the user gets an overview of this data. The last line shows what is missing.

Virtual Windows \ Entity	Name	Address	Phone Number	Emergency Contact	Citizen Information	Ethnicity	Student	Hold	Class	Course	Advisor	Faculty	Department	Transcript	Account	Transaction	Financial Aid	Record	Transcript
Names	RE DO						RO												
Addresses	R	RE DO					RO												
Phone Numbers	R		RE DO				RO												
Emergency Contact Number	R			RE DO			RO												
Demographic Data	R				RE DO		RO												
Ethnicity	R					RE DO													
Class Schedule	R						R		RO	RO	R	R	R						
Classes Search							R		RO	RO	R	R	R						
Course Catalog							R		RO	RO	R	R	R						
Grades	R						R		RO	RO	R	R	R	RO				RO	O
Classes Add	R						R	RE O	RE DO	RO	R	R	R	CE				C	E
Classes Drop	R						R	RE O	RE DO	RO	R	R	R	CE				D	E
Account Summary	R						R								RO				
Transaction	R						R									RO			
Financial Aid	R						R										RO		
Missing																			

## 2) Low Fidelity Prototype



Edit/View Address

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Type	Address	
Home	5678 Greenville, Dallas, Tx	
Mail	5678 Greenville, Dallas, Tx	
Origin Country	5678 Greenville, Dallas, Tx	
...		

 Add

Save

Cancel

Edit/View Name

Address


Name


Phone Number

Emergency

Demographic

Ethnicity

Name Type	Name	
Primary	Mr. Luise	



Add

Save

Cancel

Edit/View Phone Numbers

Address


Name


Phone Number

Emergency

Demographic

Ethnicity

Phone Type	Phone Type	Number	Preferred	
	Mobile	214-123-1234	<input type="checkbox"/>	



Add

Save

Cancel

Edit/View Emergency Contact Information

Address


Name


Phone Number

Emergency

Demographic

Ethnicity

Name	Relationship	Number	Preferred	
Mr. Luise	Parents	214-234-1234	<input checked="" type="checkbox"/>	



Add

Save

Cancel

Edit/View Demographic Data

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

---

ID

39893232

Gender

Male

Date of Birth

12/13/1997

mm/dd/yy

Religious

Not Report

---

Save

Cancel

Edit/View Ethnicity

Address Name Phone Number Emergency Demographic Ethnicity

---

Race: Asia ▼

---

Save Cancel

## 4) Gestalts

### Proximity

At Home page, all external links are put together at the leftmost column to allow users to access useful online resources.

### Similarity

At Search page, the search fields are put together at left and the search results are put together in the table at right. The use of tabs is also another example how similarity looks like in the design of SMU.Access.

### Continuity

At Search page, the label and the corresponding input field are put close to each other, which meet the definition of Gestalt continuity.

### **Closure**

At Academic-Class Schedule page, the enrolled courses are grouped together in a bracket if their schedules are on the same date.

### **Symmetry**

SMU.Access does not use Gestalt symmetry technique.

### **Figure/Ground**

At Academic-Class Schedule page, while the course schedule has conflicts, the non-conflicted schedule will be greyed out and the conflicted one will stand out in a pop color.

### **Common Fate**

No animation is used in the SMU.Access design; hence, no common fate is used.

## **5) Data Presentation**

### **1. Use of Color**

Color is used in the interface to draw attention to certain data. Specifically, we use red to represent an error operation on specific data row.

## Enrolled Courses

	Code	Name	Time	Instructor
<input checked="" type="checkbox"/>	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana
<input type="checkbox"/>	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana
<input type="checkbox"/>	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana

### Drop Error

You have to register three courses at least



## 6) Usability Testing

### 1. Heuristic Evaluation

#### *Visibility of System Status*

Conformance Questions:



- ☐ Exact information provided at the exact moment
- ☐ Natural mapping between system and user concepts
- ☐ Appropriately direct attention
- ☐ Group related objects
- ☐ Alignment
- ☐ Balance and white space
- ☐ Few fonts and colors (5 to 7 colors max.)
- ☐ address color blind issues
- ☐ Too much information displayed.

Evidence of Conformance: all functions are clearly named and related objects are grouped together. Alignment, balance and white space are addressed appropriately. Fonts and colors are elegant and big enough to read with ease. Only the information requested is displayed. Website colors are used to address color blindness.

### ***Match between the System and the Real World***

Conformance Questions:

- ☐ Accommodate specific vocabulary for users
- ☐ View from user's perspective, not system.
- ☐ Adopt words as proposed by users
- ☐ Good mappings between conceptual model and user's mental model.
- ☐ Employ real-world reference system

Evidence of Conformance: The system uses language that is relative to its users. A weekly calendar and tables are used. "Back" command button takes users back to the previous window. "Cancel" command button cancels the action. "Add" command button adds information.

### ***Minimize User Memory Load***

Conformance Questions:

- ☐ Use recognition, not recall.

- ☐ Exploit visibility.
- ☐ Provide implicit clues and rules for required input.
- ☐ Easy to navigate.

Evidence of Conformance: The user does not have to remember anything from a previous page. The user is guided via the input stage by drop-down list boxes to choose from and by masked edit fields (e.g. date)

### ***Consistency and Standards***

Conformance Questions:

- ☐ Facilitates exploratory learning.
- ☐ Consistency of format.
- ☐ Consistency of task and functionality structure of system.
- ☐ Consistency of effects
- ☐ Consistency of language and graphics

Evidence of Conformance: The interface uses the same terminology for all action types and objects. For instance, on all windows that allows you to make changes to data in the system or add data the word “cancel” is used as the action to do so. Also, the tab theme is kept where you can see a tab for each subtask under any of the three main tasks. “Cancel” command button always takes the user back from the subtask window to the main task window at any subtask window.

### ***Feedback***

Conformance Questions:

- ☐ Continuous information on user’s actions and their interpretation, including positive and partial feedback
- ☐ Avoid abstract, generalized feedback.
- ☐ Various levels of persistence of feedback information.
- ☐ System Failure

Evidence of Conformance: The grayed tab always shows the user where he is at relative to the other subtasks and the main tasks. Command buttons are all consistent, clear, and helpful.

### ***Clearly Marked Exits***

Conformance Questions:

- ☐ Empower users and promote exploratory learning
- ☐ Strategies:
- ☐ Cancel
- ☐ Universal Undo
- ☐ Quit
- ☐ Exits visible

Evidence of Conformance: The cancel command button always gives the user a clean exit from the subtask window to the subtask main window. If some windows do not have a “cancel” command button they will have a “back” command button to take them back to the previous window.

### ***Shortcuts***

Conformance Questions:

- ☐ Support expert use beyond novice.
- ☐ Accelerators, templates (styles), macros.
- ☐ Type-ahead
- ☐ Reuse of interaction history.
- ☐ Bookmarks, Explorer shortcuts.
- ☐ Judicious use of default values.

Evidence of Conformance: Some data is automatically retrieved for the user. Before the user edits any data, they can see what the old data was. The user always can hit the Home button from any window and go back to the website main window.

### ***Good Error Messages***

Conformance Questions:

- ☐ Opportunity for system to assist and educate user.
- ☐ Phrase messages in clear language.
- ☐ Precise rather than vague or general.
- ☐ Help in the resolution of the problem.
- ☐ Polite, non-intimidating messages.
- ☐ Provide good recovery.
- ☐ Multiple-level messages.

Evidence of Conformance: Recovery is done in the form of going back to the main window.

Drop-down list boxes limit the user errors. Error messages are informative, clear, polite, and precise. Error messages do not consist of error codes, debug information, or system data.

### ***Error Prevention***

Conformance Questions:

- ☐ 'Design out' errors
- ☐ Recognition, not recall. (Select from list.)
- ☐ Use 'Confirmation' boxes sparingly.

Evidence of Conformance: Only relevant data boxes can be modified, they are grayed to stand out.

All others are disabled so the user can not enter any value and won't be distracted. Drop-down list boxes are used to limit the user input to only what is displayed. Only generalized description of the error is displayed and possible ways of fixing it.

### ***Help and Documentation***

Conformance Questions:

- ☐ Not for improving a poor interface.

Evidence of Conformance: The functionality is not handled at this phase.

## IV. Detailed Prototype

### 1. Function Design

The image shows a web interface for 'Access.SMU' with a login and password reset section. The interface is set against a blue background. The central form has a dark blue header with the 'Access.SMU' logo. Below the header, there are two input fields: 'Username' and 'Password'. The 'Username' field has a placeholder text 'Enter your username.' and a user icon. The 'Password' field has a placeholder text 'Enter your account password.' and a lock icon. Below these fields are two buttons: 'Log in' and 'Reset password'. There are two callout boxes with annotations. The first callout box, titled 'login', points to the login form and contains the text 'input your sum ID and password here'. The second callout box, titled 'Forget password', points to the 'Reset password' button and contains the text 'If you forget password or want to reset it, please click "reset password"'. At the bottom of the page, there is a language selection bar with options: English, العربية, Deutsch, español, español de España, français, हिन्दी, Nederlands, and a right arrow. Below the language bar is a copyright notice: 'Copyright © 2011 cPanel, Inc.'

login

input your sum ID and password here

Access.SMU

Username

Enter your username.

Password

Enter your account password.

Log in

Reset password

Forget password

If you forget password or want to reset it, please click "reset password"

English العربية Deutsch español español de España français हिन्दी Nederlands →

Copyright © 2011 cPanel, Inc.

Announcement

Blackboard

SMU pay

E-mail

Pony

Library

Resouce

Help

Personal

Academics

Financial

Logout

## Announcements

### Elect or Waive Required Health Insurance coverage

Fall 2013 Elect/Waive period is from April 8, 2013 – August 30, 2013. Students must complete this process each Fall and Spring semester after they have enrolled for

## Links

### Fall 2013 Orientation Registration Now Open

Orientation Registration is available on Access SMU for all new undergraduate

There are some pages every student may often visit.

Thus, we put them together and avoid the repeat login procedure for each system. In other words,

once they login the access system, they can visit

all the linked pages with out login again

orientation, you will need to log into the system. To assist you with the registration process, please refer to the New Student

# Access.SMU

- Announcement
- Blackboard
- SMU pay
- E-mail
- Pony
- Library
- Resouce
- Help

Navigation

Personal

Address

Name

Number

Emergency

Demographic

Ethnicity

The navigation function make students quickly to go to the page they want to.

**Fall 2013 Orientation Registration Now Open**  
Orientation Registration is available on Access SMU for all new undergraduate deposit paid students. In order to register for AARO orientation, you will need to log into Access.SMU, using your SMU ID number and password. To assist you with the registration process, detailed instructions are available on the New Student Orientation and Student Support website [Click Here](#)

Summary

Details

Financial Aid

Logout

Optional Text		
Term	Account Balance	Term Balance
Spring 2013	0.00	1000.00
Fall 2013	0.00	0.00


Log out

You can find the logout button in each page. Thus you can logout your account whenever you want to

Back



[Schedule](#)[Search](#)[Category](#)[Grades](#)[Drop](#)[Logout](#)Subject: Course No. 





Code	Name	Enroll
CSE 8316	UI Design	
CSE 7312	Software Systems Engineering	
CSE 7314	SFTWR Testing	
CSE 7319	Software Architecture and Desin	

Note

Only the course  
in this semester  
can be registered

[Search](#)[Cancel](#)

[Schedule](#)[Search](#)[Catalog](#)[Grades](#)[Drop](#)[Logout](#)Department: Term: Course: Class ID: Type: Instructor: 

Code	Name	Instructor	Enroll
CSE 8316	UI Design	Robert Oshana	
CSE 7312	Software Systems Engineering	Ann Broihier	
CSE 7314	SFTWR Testing	Jeff Tian	
CSE 7319	Software Architecture and Desin	Jennifer Dworak	

**Enroll**

If you Find the Course  
you need, you can  
click the "enroll" button  
to add this course into  
class schedule

**Search  
Conditons**

Choose the search condition first, then click  
the search button.

## 2. Error Message

**Access.SMU**



Address


**Name**

Phone Number

Emergency

Demographic

Name Type	Name		
Primary	Mr. Luise		

 Add

Save

Cancel

**Delete Error**

You can't delete  
Last Name

Address

Name



Phone Number

Emergency

Demograph

Delete Error

You can't delete last address.

Type	Address		
Home	5678 Greenville, Dallas, Tx		



Add

Save

Cancel

Address

Name

Phone Number

Emergency

Demographic

Delete Error

Ethnicity

You can't delete  
last phone number

Phone Type	Phone Type	Number	Preferred		
	Mobile	214-123-1234	<input type="checkbox"/>		



Add

Save

Cancel

[Schedule](#)[Search](#)[Catalog](#)[Grades](#)[Drop](#)[Logout](#)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

CSE 7445  
8:00~9:20AM  
Caruth 0379

CSE 8355  
5:00~7:50 PM  
Caruth 0383

CSE 7445  
5:00~7:50 PM  
Caruth 0379

CSE 8355  
5:00~7:50 PM  
Caruth 0383

**Time Conflict**

These two courses are  
time conflict

CSE 8355  
5:00~7:50 PM  
Caruth 0383

CSE 8355  
5:00~7:50 PM  
Caruth 0383

CSE 7445  
8:00~9:20AM  
Caruth 0379

CSE 8355  
5:00~7:50 PM  
Caruth 0383

CSE 7445  
8:00~9:20AM  
Caruth 0379

CSE 8355  
5:00~7:50 PM  
Caruth 0383

[Cancel](#)

[Schedule](#)[Search](#)[Catalog](#)[Grades](#)[Drop](#)[Logout](#)

## Enrolled Courses

	Code	Name	Time	Instructor
<input checked="" type="checkbox"/>	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana
<input type="checkbox"/>	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana
<input type="checkbox"/>	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana

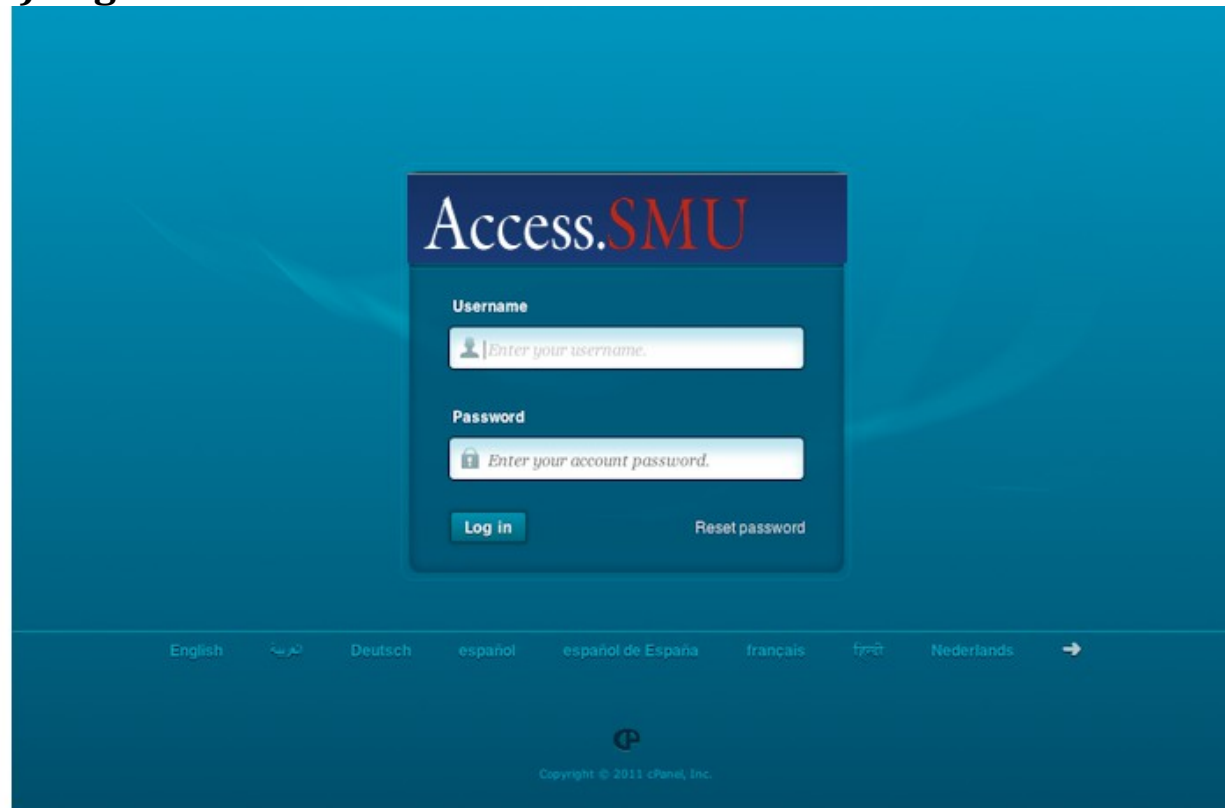
### Drop Error

You have to register three courses at least

DropCancel

### 3. Prototype

#### 1) Login Interface



The image shows a login interface for Access.SMU. The background is a solid blue color. In the center, there is a white rectangular box with a dark blue header containing the text "Access.SMU" in white. Below the header, there are two input fields: "Username" and "Password". The "Username" field has a placeholder text "Enter your username." and a small icon of a person. The "Password" field has a placeholder text "Enter your account password." and a small icon of a padlock. Below the input fields, there are two buttons: "Log in" and "Reset password". At the bottom of the page, there is a horizontal bar with a list of languages: English, العربية, Deutsch, español, español de España, français, हिन्दी, Nederlands, and a right arrow icon. Below this bar, there is a small logo and the text "Copyright © 2011 cPanel, Inc."

Access.SMU

Username  
Enter your username.

Password  
Enter your account password.

Log in Reset password

English العربية Deutsch español español de España français हिन्दी Nederlands →

Copyright © 2011 cPanel, Inc.



## 2) Home Page

# Access.SMU

Announcement

Blackboard

SMU pay

E-mail

Pony

Library

Resouce

Help

Personal

Academics

Financial

Logout

**Announcements**

**Elect or Waive Required Health Insurance coverage**  
Fall 2013 Elect/Waive period is from April 8, 2013 – August 30, 2013. Students must complete this process each Fall and Spring semester after they have enrolled for classes. [Learn how to Waive/Elect](#)

**Fall 2013 Orientation Registration Now Open**  
Orientation Registration is available on Access.SMU for all new undergraduate deposit paid students. In order to register for AARO orientation, you will need to log into Access.SMU, using your SMU ID number and password. To assist you with the registration process, detailed instructions are available on the New Student Orientation and Student Support website [Click Here](#)

### 3) Academic -Class Schedule

Access.SMU

Schedule

Search

Catalog

Grades

Drop


Logout

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<div>CSE 7445 8:00~9:20AM Caruth 0379</div> <div>CSE 8355 5:00~7:50 PM Caruth 0383</div>	<div>CSE 7445 5:00~7:50 PM Caruth 0379</div> <div>CSE 8355 5:00~7:50 PM Caruth 0383</div>	<div>CSE 7445 8:00~9:20AM Caruth 0379</div> <div>CSE 8355 5:00~7:50 PM Caruth 0383</div>	<div>CSE 7445 8:00~9:20AM Caruth 0379</div> <div>CSE 8355 5:00~7:50 PM Caruth 0383</div>	<div>CSE 7445 8:00~9:20AM Caruth 0379</div> <div>CSE 8355 5:00~7:50 PM Caruth 0383</div>	<div>CSE 7445 8:00~9:20AM Caruth 0379</div> <div>CSE 8355 5:00~7:50 PM Caruth 0383</div>

Cancel

#### 4) Academic-Class Search

**Access.SMU**

Schedule **Search** Catalog Grades Drop 

Department:


Term:

Course:

Class ID:

Type:

Instructor:

Code	Name	Instructor	Enroll
CSE 8316	UI Design	Robert Oshana	
CSE 7312	Software Systems Engineering	Ann Broihier	
CSE 7314	SFTWR Testing	Jeff Tian	
CSE 7319	Software Architecture and Desin	Jennifer Dworak	


## 5) Academic-Class Catalog

**Access.SMU**

ScheduleSearchCategoryGradesDropLogout

Subject: CSE-Computer

Course No.

Code	Name	Enroll
CSE 8316	UI Design	
CSE 7312	Software Systems Engineering	
CSE 7314	SFTWR Testing	
CSE 7319	Software Architecture and Desin	

Note  
Only the course in this semester can be registered

SearchCancel

## 6) Academic-Class Drop

Access.SMU

Schedule

Search

Catalog

Grades

Drop

Logout

Enrolled Courses

<input checked="" type="checkbox"/>	Code	Name	Time	Instructor
	CSE8316	UI Design	6:30~9:20 PM, Wed	Robert Oshana

Drop

Cancel

## 7) Academic-Grades

Access.SMU

Schedule

Search

Catalog

Grades

Drop

Logout

Term: Spring 2013 ▼

Course	Units	Grading	Grade
CSE 7345	3.00	A,B,C	A

Cancel

## 8) Financial Information-Account Summary

Access.SMU

Summary

Details

Financial Aid

Logout

Term	Account Balance	Term Balance
Spring 2013	0.00	1000.0
Fall 2013	0.00	0.00

Back

## 9) Financial Information-Financial Aid

Access.SMU

Summary

Details

Financial Aid

Logout

Year	Description	Institution
2013	Southern Methodist U	No aid
2014	Southern Methodist U	No aid

Back



## 10) Financial Information-Transaction Detail

Access.SMU

Summary

Details

Financial Aid

Logout

Term: Spring 2012

Effect Date	Posted Date	Type	Description	Amount	Billing Date
01/04/2013	01/04/2013	Tuition	Tuition Graduate	6570.00	01/08/2013

Back

## 11) Personal Information-Address

Access.SMU

Address

Name




Phone Number

Emergency

Demographic

Ethnicity

Logout

Type	Address	
Home	5678 Greenville, Dallas, Tx	
Mail	5678 Greenville, Dallas, Tx	
Origin Country	5678 Greenville, Dallas, Tx	
...		



Add

Save

Cancel

## 12 ) Personal Information-Address Add

Access.SMU

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Logout

Type:

Address:

City:

State:

Country:

Postal:

Add

Cancel

### 13 ) Personal Information-Name

**Access.SMU**

Address

**Name**

Phone Number


Emergency


Demographic

Ethnicity

Logout

---

Name Type	Name	
Primary	Mr. Luise	

 Add

---

Save

Cancel

## 14 ) Personal Information-Name Add

**Access.SMU**

Address

**Name**

Phone Number

Emergency

Demographic

Ethnicity

Logout

---

Type:

Prefix:

Suffix:

First Name:

Middle Name:

Last Name:

---

Add

Cancel

## 15 Personal Information-Phone Number

Access.SMU

Address

Name


Phone Number

Emergency

Demographic

Ethnicity

Logout

Phone Type	Phone Type	Number	Preferred	
	Mobile	214-123-1234	<input type="checkbox"/>	



Add

Save

Cancel

## 16 Personal Information-Phone Number Add

Access.SMU

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Logout

Type:

Prefix:

Suffix:

First Name:

Middle Name:

Last Name:

Add

Cancel

## 17 ) Personal Information-Emergency

Access.SMU

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Logout

Name	Relationship	Number	Preferred	
Mr. Luise	Parents	214-234-1234	<input checked="" type="checkbox"/>	



Add

Save

Cancel



## 18 ) Personal Information-Emergency Add

Access.SMU

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Logout

Name:

XXX

Relationship:

Parents

Phone:

214-234-1234

Country:

USA

Add

Cancel

## 19 ) Personal Information-Demographic

Access.SMU

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Logout

ID 39893232

Gender

Date of Birth  mm/dd/yy

Religious

Save

Cancel

## 20 ) Personal Information-Ethnicity

**Access.SMU**

Address

Name

Phone Number

Emergency

Demographic

Ethnicity

Logout

---

Race: 

Asia

---

Save

Cancel