Team-D

Instructor’s Name

Course Title

November 30, 2014

UCI RegCourse TestCase OutLine

**Overview – Student Registration Program**

Your team assignment is to write a console application used to register students for a course.  The data for the registration system will be stored in one or more text files. You will follow the Systems Development Life Cycle (SDLC) to develop the application using a waterfall methodology. I will provide a requirements document, but your team will be responsible for several other deliverables during each lifecycle phase:

|  |  |
| --- | --- |
| **Phase** | **Deliverable** |
| Requirements | Requirements Document |
| Analysis | Use Case Diagram, Activity Diagram |
| Design | Technical Design |
| Construction | Source Code, Version Control Sheet |
| Testing | Test Report |
| Implementation | Timely Submission to Assignments Folder |

Please understand that the final grade on your team project is not based solely on the source code.  You will be graded based on each deliverable noted above.  In addition, your individual participation on the team project will be evaluated; subsequently, your grade may suffer if you do not actively contribute to your team assignment.

**Assumptions**

* The Use Case diagram can be created using any tool and will highlight all Use Cases for the system.
* You must submit all of your data files as a part of your assignment.
* Your source code must be submitted in a single zip file containing the group name.
* At a minimum, the version control sheet must include the name of the updated file, the date the change was made, the name of the person making the change, and a high-level description of the change.
* Have one person submit your final project to me.
* Your program will be designed using object oriented techniques.

**Requirements**

The student registration system will display the list of courses available for registration. The program should show current registration numbers and available seats for each course. After a student successfully registers, the registration information should be stored in a file.

The system should provide several features:

* The ability for students to view an alphabetical list of courses that includes the course identification number, course dates, name, brief summary, the enrollment limit, and the number of students already enrolled.
* The ability for students to register or un-register for a course.
* The ability for a student to see a list of classes for which he/she is currently registered.

There are several business rules:

* The system should not allow a student to register for a full course.
* The system should not allow one student to view the registration information for another student.
* The system should not allow a student to un-register from a course for which he/she is not registered.

**Requirements**

Our plan is to create two csv files.

One is for student accounts. First column is the account, and the second column is the password.

Another one is for courses. First column is the course name. Second column is the total available seats. Third column is the schedule. Following columns are the registered students.

The database class has below functions.

1. createStudentAccount

- This will add one more row in the student accounts file.

2. checkPassword

- This is for login. Check if provided account/pw match the record in student account file.

3. registerCourse

- This is only for logged in student. This will add one more student name or delete one name in the course row in the course file.

4. getAvailableCourses

- This checks the courses row to see which rows do not have the logged in student name, and return all such courses.

5. getRegisteredCourses

- Similar to 4. Return all courses with the logged in student name in the course row.

6. checkSchedule

- Get the schedule from course file.

This database class only needs two instance variables.

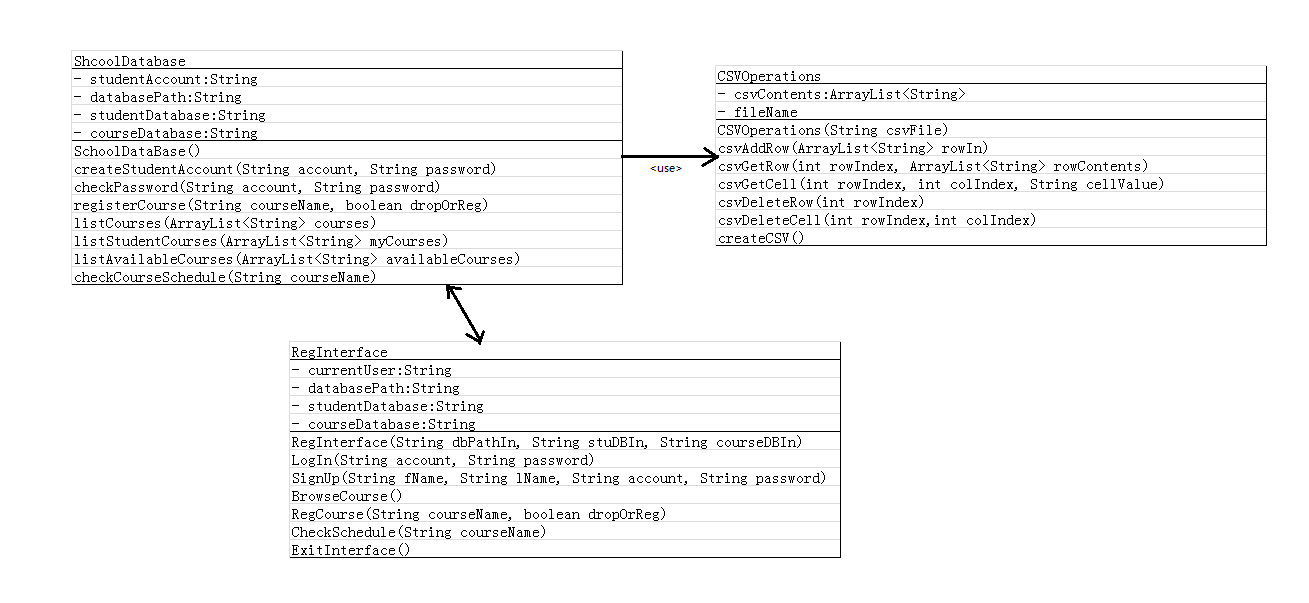
1. Studnet name

- In default, it is null. Once student log in, the name will be the student name.

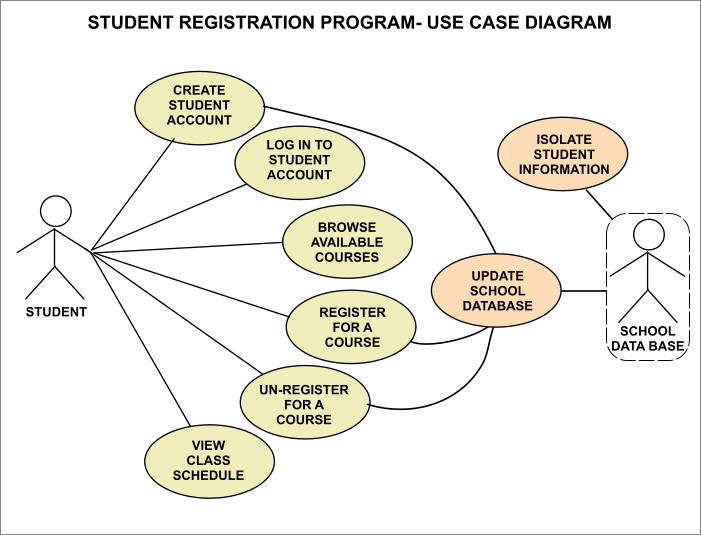
2. Database location

- Location of the files

**Requirements**



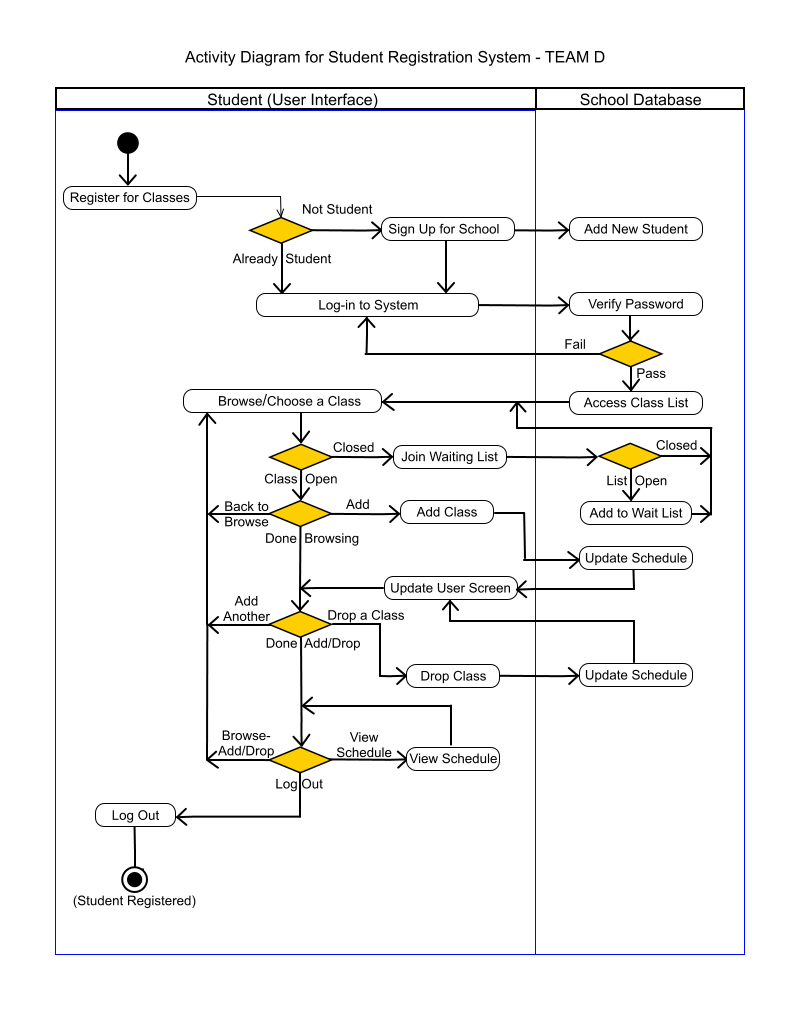
Analysis

              UCI\_RegCourse\_TestCase\_OutLine

Use Case Diagram

Analysis

UCI\_RegCourse\_TestCase\_OutLine

Activity Diagram

Early functional UI screenshots

Lorem ipsum dolor sit amet. Ligula suspendisse nulla pretium, rhoncus tempor fermentum, enim integer ad vestibulum volutpat. Nisl rhoncus turpis est, vel elit, congue wisi enim nunc ultricies sit, magna tincidunt. Maecenas aliquam maecenas ligula nostra, accumsan taciti. Sociis mauris in integer, a dolor netus non dui aliquet, sagittis felis sodales, dolor sociis mauris, vel eu libero cras. Faucibus at. Arcu habitasse elementum est, ipsum purus pede porttitor class, ut adipiscing, aliquet sed auctor, imperdiet arcu per diam dapibus libero duis.

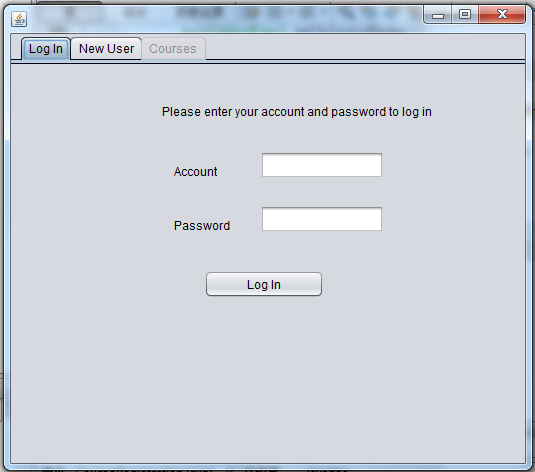
Ac dolor ac adipiscing amet bibendum nullam, lacus molestie ut libero nec, diam et, pharetra sodales, feugiat ullamcorper id tempor id vitae. Mauris pretium aliquet, lectus tincidunt. Porttitor mollis imperdiet libero senectus pulvinar. Etiam molestie mauris ligula laoreet, vehicula eleifend. Repellat orci erat et, sem cum.

Consectetuer arcu ipsum ornare pellentesque vehicula, in vehicula diam, ornare magna erat felis wisi a risus. Justo fermentum id. Malesuada eleifend, tortor molestie, a a vel et. Mauris at suspendisse, neque aliquam faucibus adipiscing, vivamus in. Wisi mattis leo suscipit nec amet, nisl fermentum tempor ac a, augue in eleifend in venenatis, cras sit id in vestibulum felis in, sed ligula. In sodales suspendisse mauris quam etiam erat, quia tellus convallis eros rhoncus diam orci, porta lectus esse adipiscing posuere et, nisl arcu vitae laoreet.

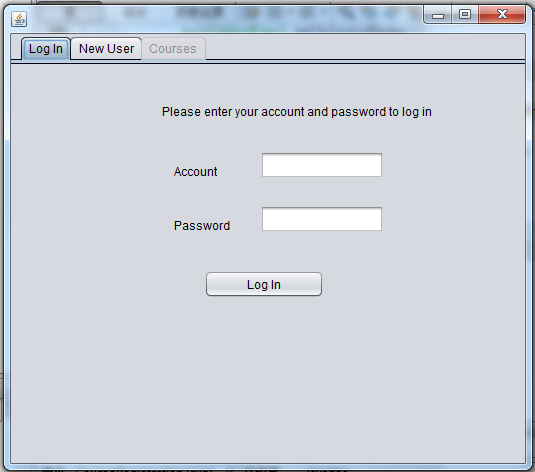
Donec arcu risus diam amet sit. Congue tortor risus vestibulum commodo nisl, luctus augue amet quis aenean maecenas sit, donec velit iusto, morbi felis elit et nibh. Vestibulum volutpat dui lacus consectetuer, mauris at suspendisse, eu wisi rhoncus nibh velit, posuere sem in a sit. Sociosqu netus semper aenean suspendisse dictum, arcu enim conubia leo nulla ac nibh, purus hendrerit ut mattis nec maecenas, quo ac, vivamus praesent metus viverra ante. Natoque sed sit hendrerit, dapibus velit molestiae leo a, ut lorem sit et lacus aliquam.

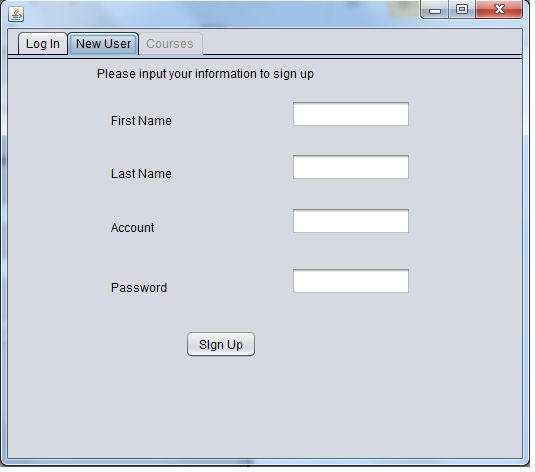
Ut facilisis ante in dui ac suscipit, turpis voluptatum donec, suspendisse, quasi luctus amet urna tempor amet sit. Cras volutpat mattis hasellus justo sed, feugiat nunc praesent. Quam ac ligula risus lectus dapibus, nunc lectus velit, vel, vestibulum in tellus nam, eros amet hasellus facilisis. Vehicula sed, class dignissim ullamcorper eros, mauris consequat ut lacinia. Aliquam amet est, quam leo maecenas mauris turpis leo pharetra, vulputate lacus. Ad ornare donec, fringilla feugiat augue imperdiet laoreet, ipsum enim sit lectus felis at, aliquam donec pede, luctus platea etiam mauris ut. Dui vel diam, vitae et scelerisque erat volutpat viverra velit, risus pellentesque tellus nullam nibh, morbi pos

Design

Technical Design

Design

Technical Design



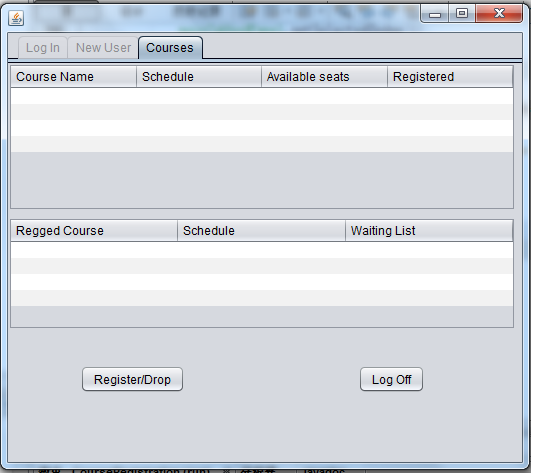
Team D

Instructor’s Name

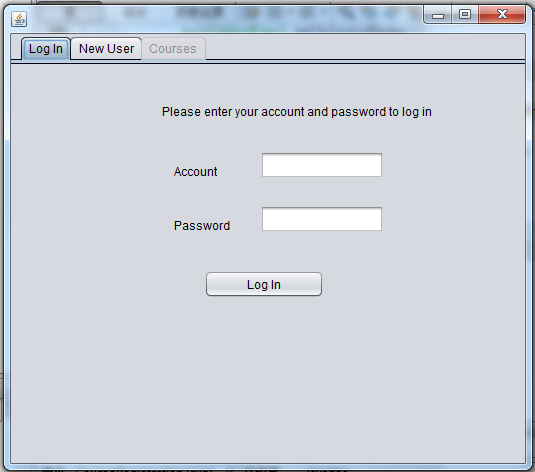
Course Title

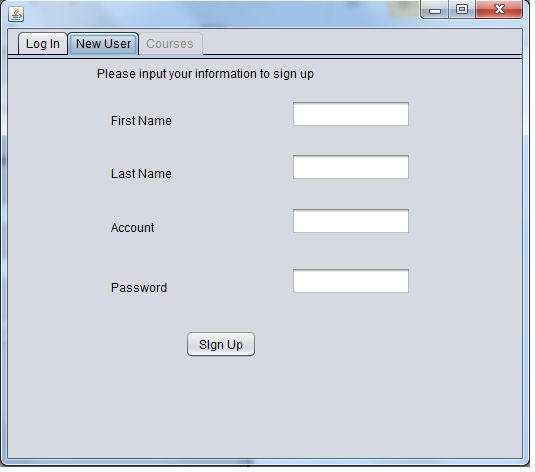
November 30, 2014

**Design**

Technical Design

Design

Technical Design



UCI\_RegCourse\_TestCase\_OutLine

UCI\_RegCourse\_TestCase\_OutLine

Construction

 Source Code, Version Control Sheet

|  |  |
| --- | --- |
| Date of Release | Revisions |
|  | Draft |
| 7/3/14 | Added Final Releases and updated version notes. |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| Test Suite ID | TS001 |
| Test Case ID | TC001 |
| Test Case Summary | check csvOperation class functionality |
| Related Requirement | RR001 |
| Prerequisites | JRE installed |
| Test Procedure | 1. Create database files. 2. check all function method in the class |
| Test Data | create studentdatabase and coursedatabase csv files for test |
| Expected Result | file operation should all pass |
| Actual Result | TBD |
| Status | TBD |
| Remarks | TBD |
| Created By | TAO CHENG |
| Date of Creation | 11/16/14 |
| Executed By | TBD |
| Date of Execution | TBD |
| Test Environment | windows 7 or 8 or 8.1. java 8. |
|  |  |
| Test Suite ID | TS002 |
| Test Case ID | TC002 |
| Test Case Summary | check SchoolDatabase class functionality |
| Related Requirement | RR002 |
| Prerequisites | JRE installed; CSVOperation class is tested ok. |
| Test Procedure | 1. create database files. 2. Link to CSVOperation class. 3. check all function method in the class |
| Test Data | create studentdatabase and coursedatabase csv files for test |
| Expected Result | file operation should all pass |
| Actual Result | TBD |
| Status | TBD |
| Remarks | TBD |
| Created By | TAO CHENG |
| Date of Creation | 11/16/14 |
| Executed By | TBD |
| Date of Execution | TBD |
| Test Environment | windows 7 or 8 or 8.1. java 8. |
|  |  |
| Test Suite ID | TS003 |
| Test Case ID | TC003 |
| Test Case Summary | check RegInterface class functionality |
| Related Requirement | RR003 |
| Prerequisites | JRE installed; CSVOperation class is tested ok; SchoolDatabase is tested ok. |
| Test Procedure | Check the menu switch described in menu mockup file |
| Test Data | create studentdatabase and coursedatabase csv files for test |
| Expected Result | file operation should all pass |
| Actual Result | TBD |
| Status | TBD |
| Remarks | TBD |
| Created By | TAO CHENG |
| Date of Creation | 11/16/14 |
| Executed By | TBD |
| Date of Execution | TBD |
| Test Environment | windows 7 or 8 or 8.1. java 8. |

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | Test Suite ID | TS001 |
|  | Test Case ID | TC001 |
|  | Test Case Summary | check csvOperation class functionality |
|  | Related Requirement | RR001 |
|  | Prerequisites | JRE installed |
|  | Test Procedure | 1. Create database files. 2. check all function method in the class |
|  | Test Data | create studentdatabase and coursedatabase csv files for test |
|  | Expected Result | file operation should all pass |
|  | Actual Result | TBD |
|  | Status | TBD |
|  | Remarks | TBD |
|  | Created By | TAO CHENG |
|  | Date of Creation | 11/16/14 |
|  | Executed By | TBD |
|  | Date of Execution | TBD |
|  | Test Environment | windows 7 or 8 or 8.1. java 8. |
|  |  |  |
|  | Test Suite ID | TS002 |
|  | Test Case ID | TC002 |
|  | Test Case Summary | check SchoolDatabase class functionality |
|  | Related Requirement | RR002 |
|  | Prerequisites | JRE installed; CSVOperation class is tested ok. |
|  | Test Procedure | 1. create database files. 2. Link to CSVOperation class. 3. check all function method in the class |
|  | Test Data | create studentdatabase and coursedatabase csv files for test |
|  | Expected Result | file operation should all pass |
|  | Actual Result | TBD |
|  | Status | TBD |
|  | Remarks | TBD |
|  | Created By | TAO CHENG |
|  | Date of Creation | 11/16/14 |
|  | Executed By | TBD |
|  | Date of Execution | TBD |
|  | Test Environment | windows 7 or 8 or 8.1. java 8. |
|  |  |  |
|  | Test Suite ID | TS003 |
|  | Test Case ID | TC003 |
|  | Test Case Summary | check RegInterface class functionality |
|  | Related Requirement | RR003 |
|  | Prerequisites | JRE installed; CSVOperation class is tested ok; SchoolDatabase is tested ok. |
|  | Test Procedure | Check the menu switch described in menu mockup file |
|  | Test Data | create studentdatabase and coursedatabase csv files for test |
|  | Expected Result | file operation should all pass |
|  | Actual Result | TBD |
|  | Status | TBD |
|  | Remarks | TBD |
|  | Created By | TAO CHENG |
|  | Date of Creation | 11/16/14 |
|  | Executed By | TBD |
|  | Date of Execution | TBD |
|  | Test Environment | windows 7 or 8 or 8.1. java 8. |
|  |  |  |



Lorem ipsum dolor sit amet. Ligula suspendisse nulla pretium, rhoncus tempor fermentum, enim integer ad vestibulum volutpat. Nisl rhoncus turpis est, vel elit, congue wisi enim nunc ultricies sit, magna tincidunt. Maecenas aliquam maecenas ligula nostra, accumsan taciti. Sociis mauris in integer, a dolor netus non dui aliquet, sagittis felis sodales, dolor sociis mauris, vel eu libero cras. Faucibus at. Arcu habitasse elementum est, ipsum purus pede porttitor class, ut adipiscing, aliquet sed auctor, imperdiet arcu per diam dapibus libero duis.

Ac dolor ac adipiscing amet bibendum nullam, lacus molestie ut libero nec, diam et, pharetra sodales, feugiat ullamcorper id tempor id vitae. Mauris pretium aliquet, lectus tincidunt. Porttitor mollis imperdiet libero senectus pulvinar. Etiam molestie mauris ligula laoreet, vehicula eleifend. Repellat orci erat et, sem cum.

Consectetuer arcu ipsum ornare pellentesque vehicula, in vehicula diam, ornare magna erat felis wisi a risus. Justo fermentum id. Malesuada eleifend, tortor molestie, a a vel et. Mauris at suspendisse, neque aliquam faucibus adipiscing, vivamus in. Wisi mattis leo suscipit nec amet, nisl fermentum tempor ac a, augue in eleifend in venenatis, cras sit id in vestibulum felis in, sed ligula. In sodales suspendisse mauris quam etiam erat, quia tellus convallis eros rhoncus diam orci, porta lectus esse adipiscing posuere et, nisl arcu vitae laoreet.

Donec arcu risus diam amet sit. Congue tortor risus vestibulum commodo nisl, luctus augue amet quis aenean maecenas sit, donec velit iusto, morbi felis elit et nibh. Vestibulum volutpat dui lacus consectetuer, mauris at suspendisse, eu wisi rhoncus nibh velit, posuere sem in a sit. Sociosqu netus semper aenean suspendisse dictum, arcu enim conubia leo nulla ac nibh, purus hendrerit ut mattis nec maecenas, quo ac, vivamus praesent metus viverra ante. Natoque sed sit hendrerit, dapibus velit molestiae leo a, ut lorem sit et lacus aliquam.

Ut facilisis ante in dui ac suscipit, turpis voluptatum donec, suspendisse, quasi luctus amet urna tempor amet sit. Cras volutpat mattis hasellus justo sed, feugiat nunc praesent. Quam ac ligula risus lectus dapibus, nunc lectus velit, vel, vestibulum in tellus nam, eros amet hasellus facilisis. Vehicula sed, class dignissim ullamcorper eros, mauris consequat ut lacinia. Aliquam amet est, quam leo maecenas mauris turpis leo pharetra, vulputate lacus. Ad ornare donec, fringilla feugiat augue imperdiet laoreet, ipsum enim sit lectus felis at, aliquam donec pede, luctus platea etiam mauris ut. Dui vel diam, vitae et scelerisque erat volutpat viverra velit, risus pellentesque tellus nullam nibh, morbi posuere.

WELCOME TO XYZ COLLEGE

======================

Please Sign up or Log in

------------------------

1. SIGN UP (press 1)

2. LOG-IN (press 2)

--------------------------------

OPTION 1:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| STUDENT REGISTRATION |

| FORM |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| FIRST NAME: \_\_\_\_\_\_\_\_\_\_ |

| LAST NAME: \_\_\_\_\_\_\_\_\_\_ |

| |

| CHOOSE AN ACCOUNT |

| PASSWORD: \_\_\_\_\_\_\_\_\_\_ |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

--------------------------------

OPTION 2:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| STUDENT LOG-IN PAGE |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| ACCOUNT #: \_\_\_\_\_\_\_\_\_\_ |

| PASSWORD: \_\_\_\_\_\_\_\_\_\_ |

| |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

--------------------------------

Please CHOOSE AN OPTION

------------------------

1. BROWSE CLASSES (press B)

2. ADD/DROP A CLASS (press A)

3. LIST CLASS SCHEDULE (press L)

4. EXIT BROWSING (press X)

--------------------------------

OPTION 1:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| BROWSE CLASS LIST |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| COURSE CLASS# |

| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

| ALGEBRA I.......13333 |

| ALGEBRA II......23333 |

| CHOIR I.........12222 |

| CHOIR II........12222 |

| ENGLISH I.......15555 |

| ENGLISH II......25555 |

| JAVA I..........14444 |

| JAVA II.........24444 |

| SPANISH I.......11111 |

| SPANISH II......11111 |

| |

| NEXT PAGE--> (press N) |

| <--PREVIOUS (press P) |

| |

| ADD A CLASS (press A) |

| |

| BACK TO MENU (press M) |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

OPTION 2: (CLOSED)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| ADD/DROP A CLASS: |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| ENTER CLASS # 14444 |

| |

| 30 SEATS/30 SEATS |

| -OPEN- [CLOSED] |

| |

| \*\*\*CLASS IS CLOSED\*\*\* |

| |

| WAITING LIST: OPEN |

| (5/10 SEATS) |

| |

|JOIN WAITING LIST(Y/N)?: |

| |

| Y = JOIN LIST & CONFIRM |

| N = BACK TO MENU |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

OPTION 2: (OPEN)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| ADD A CLASS: |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| ENTER CLASS # 14444 |

| |

| |

| [OPEN] -CLOSED- |

| |

| \*\*\*CLASS IS OPEN\*\*\* |

| |

| |

| ADD THIS CLASS (Y/N)?: |

| |

| Y = ADD CLASS & CONFIRM |

| N = BACK TO MENU |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

Please CHOOSE AN OPTION

------------------------

1. BROWSE CLASSES (press B)

2. ADD A CLASS (press A)

3. DROP A CLASS (press D)

4. EXIT BROWSING (press X)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| DROP A CLASS: |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| ENTER CLASS # 14444 |

| |

| |

| \*\*\*WARNING\*\*\* |

|THIS WILL DELETE CLASS!!! |

| |

| DROP THIS CLASS (Y/N)?: |

| |

| Y = DROP CLASS |

| N = BACK TO MENU |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

Please CHOOSE AN OPTION

------------------------

1. BROWSE CLASSES (press B)

2. ADD A CLASS (press A)

3. DROP A CLASS (press D)

4. EXIT BROWSING (press X)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| |

| VIEW STUDENT SCHEDULE |

| |

| COURSE CLASS# |

| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

| SPANISH I.......11111 |

| CHOIR I.........12222 |

| ALGEBRA II......23333 |

| JAVA II.........24444 |

| ENGLISH I.......15555 |

| |

| |

| BACK TO MENU (press M) |

| |

|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

Please CHOOSE AN OPTION

------------------------

1. BROWSE CLASSES (press B)

2. ADD A CLASS (press A)

3. DROP A CLASS (press D)

4. EXIT BROWSING (press X)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| LOG OUT OF SYSTEM |

| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| |

| \*\*\*WARNING\*\*\* |

| THIS WILL LOG YOU OUT!!! |

| |

|LOG OUT OF SYSTEM (Y/N)?: |

| |

| Y = LOG OUT OF SYSTEM |

| N = BACK TO MENU

Implementation

Timely Submission to Assignments Folder

Implementation

Timely Submission to Assignments Folder