# Annual Class Schedule Application

## Introduction:

This is a prototype for a mobile application that would allow different users to browse through different courses and schedule accordingly, the application provided a different level of actions based on the role/ status of the user. As this is a prototype, we are considering three different roles.

- Fresher Student

- Senior Student

- Administrative Staff

Based on the user role, the application would show the appropriate action items.

## Design Decisions:

Below are some of the things that I considered useful while designing the application.

1. **Drop Down functionality:** Instead of allowing the user to enter the full text, I thought adding a drop down will be helpful for the user, as this is a mobile application the user would be having less screen size, so having a drop down would be useful in accessing the application easily.

2. **Screen Layout:** I wanted to keep the application banner same across all the screens and thought it would be useful if the application has "Back to Home" button and "Log Out" button on all screens, this way the user can easily go back to the home page or log out when needed.

3. **Navigation:** I thought it would be helpful to let the user land on the home page and then navigate from there, I thought it would be helpful if we have those options listed as button

rather than a drop down or search criteria, this way the user can clearly see the options and navigate accordingly.

4. **Fetching results:** The application has a use cases where the user is asked to select the required information from the drop down, once all the fields are selected the application retrieves the results based on the search criteria, if you notice there is no action button to retrieve the results, the application dynamically fetches the results, I thought this is really helpful because the user would not need to click another action to get the results.

**Prototype:**

The below is a snippet of the login page build using the prototype tool.
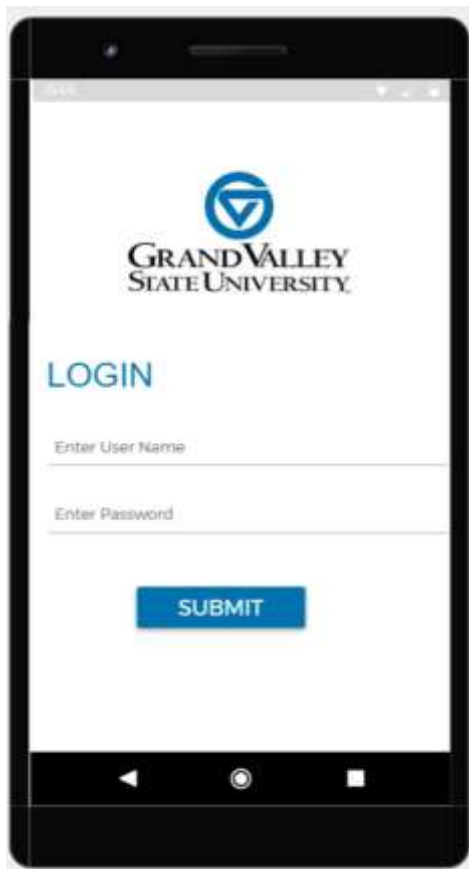


Similarly, the follow up screens after the login page are designed based on the user roles.

### Navigation:

As the application is designed for a different set of users, it should be interactive and navigate accordingly. On a high level the below is the navigation flow.

Login Page→ Home page→List out appropriate action items→ Navigate to respective pages→ Return to Home Page/ Logout actions.

### Login page:

The User will be asked to enter the username and password credentials to access the application, the application would authenticate the user and takes the user to the home page.



### Home page:

When the user is authenticated, the application takes to the home page where the user can perform desired actions.
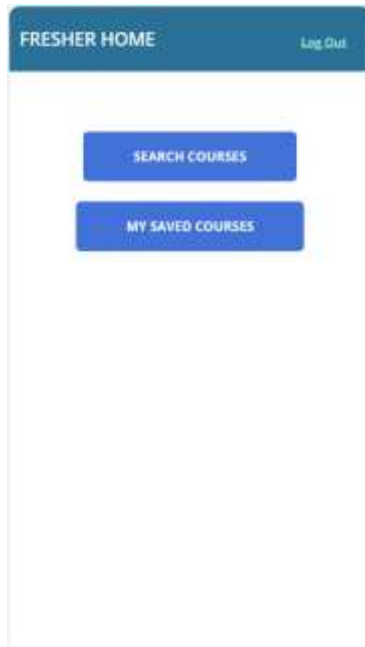
**Scenarios:** Based on the user role, the application would allow appropriate actions.

**Scenario 1:** A fresher accessing the application.

**Description:** As a fresher, the user should be able to see all the courses offered for the semester and select desired courses, the application should allow the user to see all the courses in one glance and should allow the user to remove it from the selected list.

**Flow:**

In the below screenshots, the user enters the credentials and the application takes to the home page, where the user is shown with the actions items, if the user clicks on the "SEARCH COURSES", the application takes to the search courses page where the user can select the term and major, based on the selection the application lists out all the course that is offered. The application allows the

user to select the desired course by clicking the "Add" button. Once the user is done with the selection, the user can go back to the home page and view all the saved courses by clicking "MY SAVED COURSES" button. The application takes to another screen where the user can see the selected courses and remove if needed.

**Scenario 2:** A Senior accessing the application.

**Description:** As a Senior, the user should be able to search, select all the courses offered for the semester and should be able to see all the courses that the user currently registered.

**Flow:** Once the user is authenticated the application takes to the home page where the user can select the options and navigate accordingly.
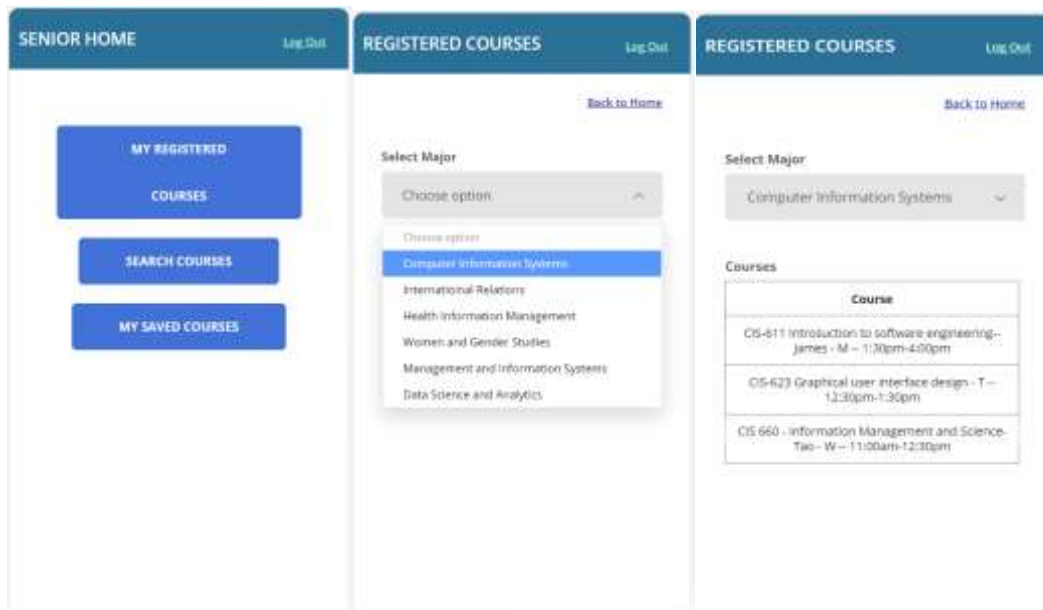
When the user clicks on the first option, the application takes to the next page where the user can select the major to see all the courses registered.



If the user chose to search all the courses, then the application takes to the screen where the user can search the courses based on the term and major, the application allows the user to add select the desired course by using the "Add" button functionality.

The application also allows the user to see all the selected courses in one screen, the application allows the user to remove any couse from the list by clicking on "Remove" button.

**Scenario 3:** An Administrative staff accessing the application.

**Description:** As an administrative staff, the user should be able to do search the facility, courses or instructor, the application should show the relevant options for the user to use the application.

**Flow:** The user is asked to enter the credentials to access the application, once the user Is authenticated the application takes to the home page where the user could select one of the listed options to perform actions or navigate through the application.



If the user selects the first option, then the application takes to the next screen.

If the user selects the second option, then the application takes to the next screen (s), where he can selct the instructor's name from the drop down.

Similarly, if the user selects the third option then the application takes to the next screen to search courses based on term and major.