

Project Proposal Document

Course Management System

Overview

This **Course Management System** gives a console application for the user to interact with and runs on Spring in the back-end. There are 3 actors in this system, namely,

- Student
- Admin
- Faculty

The nuances of these are discussed in the document.

The Admin has the options such as,

- Messages - To check the messages
- Send Announcement - Send an announcement to the students
- Add User - Add a new Faculty, Student, Admin

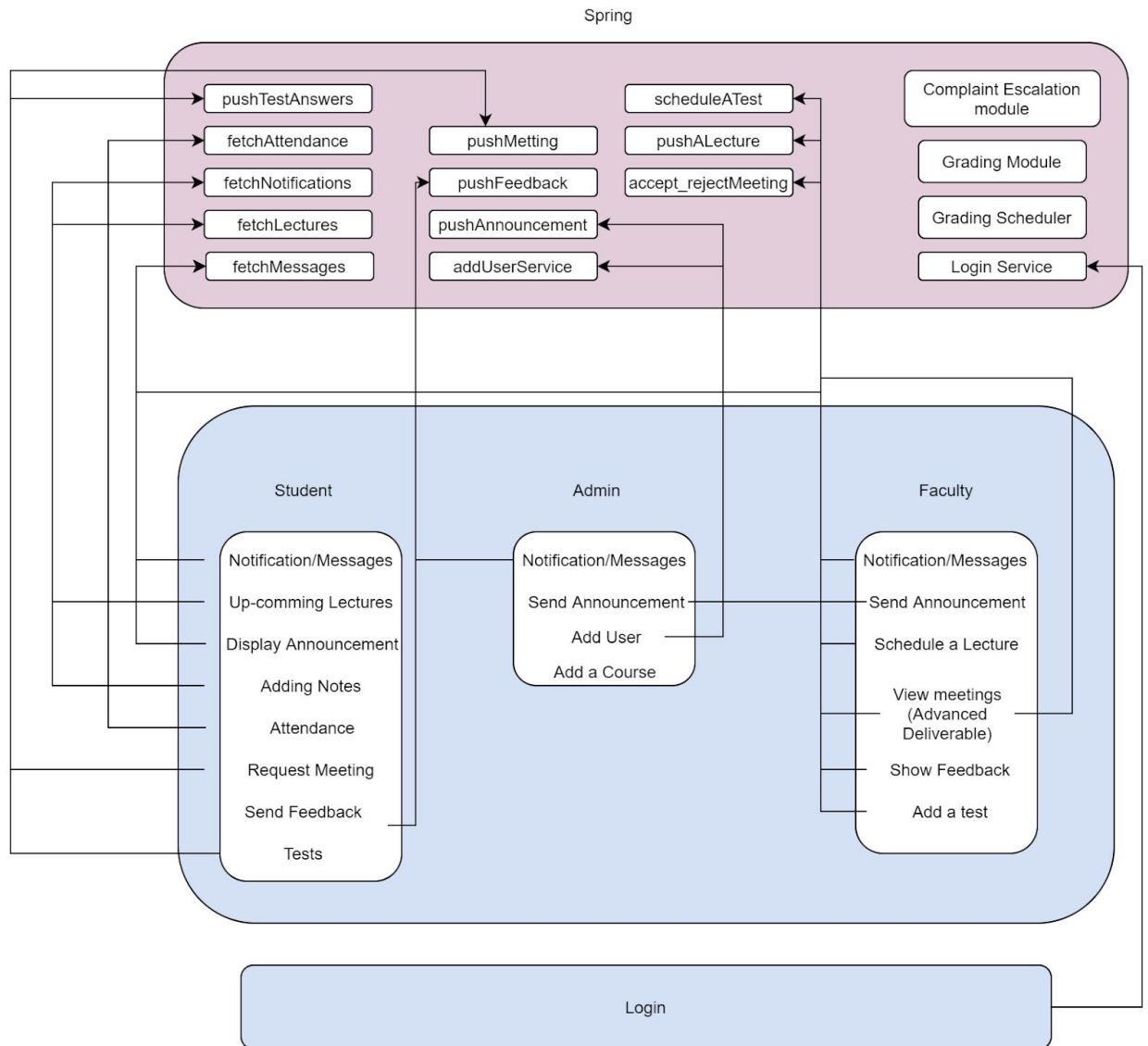
The student has the options such as,

- Messages - To check the messages
- Up-coming Lectures - to check the upcoming lectures
- Display Announcement - Displays all the announcements
- Adding Notes - Add a note to a corresponding course
- Attendance - Check his attendance
- Request Meeting - Request a meeting with a faculty
- Send Feedback - Send Feedback to a particular faculty
- Tests - To check and give a test

The Faculty,

- Messages - To check the messages
- Send Announcement - Send an announcement to the students
- Schedule a Lecture - Schedules a lecture
- View meetings - View meeting requests
- Show Feedback - Show/lists the feedback he/she got
- Add a test - Adds a test with start and end time-period

Overall view of features and the corresponding services they use. Use the [Draw.io file](#) given to click on the line/arrow to show the service for a particular feature.



Note: This is a rough sketch of the services. Although the “features” will stay the same, we might change the services to optimize the work.

Login

This screen is used to login a user.

```
> Who are you?  
1. User  
2. Admin  
3. Faculty  
  
-->
```

Login prompt:

```
Use ID: 17627  
Password: *****
```

Error Handling:

```
User Enters '4'  
→ Please select the appropriate option.  
Who are you?  
1. User  
2. Admin  
3. Faculty  
  
-->
```

Admin Module

- **Login:**

Functionalities and Logic

- After selecting the Admin login option on the homepage, the Admin will be redirected here to the Admin login page.
- Admin has to enter the valid username and password to login into the portal.
- Once the admin has his/her credentials, it will be verified.
- If the verification is successful, the admin is redirected to the Admin's dashboard section with the message displaying "Admin successfully logged in".
- If the verification is unsuccessful, the user will be notified with an incorrect username or password message and we will be asked to enter the credentials again.
- Once the admin logs, his/her dashboard will show what all duties he can perform.

Mockup

Admin Login -->

```
Enter AdminID - XXXXX
Enter Password - *****
```

Image 1:

```
Login Successful!!
"WELCOME Admin!"
HOME DASHBOARD:
Press "1" -> Create Course and Assigning Faculty.
Press "2" -> Student course enrollment.
Press "3" -> Making General Announcements.
Press "4" -> To Log Out
```

Error Handling

Admin Login -->

Enter UserID - XXXXX

Enter Password - ****

*Admin enters wrong input

"INCORRECT USERNAME OR PASSWORD"

- Create Course and Assign Faculty:

Functionalities and Logic:

- Once Admin presses 1 for this event from his Dashboard. We will give him the option to Create new courses and assign Faculty to this newly created course.
- The system will make sure while assigning the Faculty to the course, that the assignee Faculty can have subjects weighing up to 15 credits. After which no course will be assigned to faculty for that term.
- The system will validate that information entered while creating is correct and valid.
- Once the information like faculty id, the number of courses he is taking in the term is validated successfully, then the new course will be created or else, we will ask the Admin to enter new course information again.

Mockup:

- After pressing 1 after "Image 1"

ENTER DETAILS TO CREATE NEW COURSE :

Course ID : CSCIXXX

Course Name : YYYYYY

Enter course credits : 3

Enter faculty id to assign course: XXXX

Department : MACS

PRESS "1"-> Save

PRESS "2"-> Cancel

* 1 IS PRESSED

COURSE IS SUCCESSFULLY CREATED!!!

PRESS "*" -> Go to Home

Error Handling

- If Admin enter Faculty ID who already have a full quota with 15 credits already then the system will give an error.

ENTER DETAILS TO CREATE NEW COURSE :

Course ID : CSCIXXXX

Course Name : YYYYYY

Enter course credits : 3

Enter faculty id to assign course: XXXX

Department : MACS

PRESS "1"-> Save

PRESS "2"-> Cancel

* 1 IS PRESSED

"COURSE CREATION FAILED!! FACULTY'S SUBJECT CREDIT TOTAL WEIGHS MORE THAN 15 "

PRESS "*" -> Go to Home

- Student Course Enrollment:

Functionalities and Logic

- Once Admin presses 2 for this event from his Dashboard. We will give him the option to assign students to the course.
- Admin will be asked to select the course and study term at first.
- After selecting the course and study term, Admin will be asked to enter Student IDs separated by ","(comma).
- Once the user enters the student IDs, Admin has to confirm if he wants to enroll students in the course selected.
- Course will be assigned to valid Student IDs, and in case of any non-valid student id, a Message will be displayed to the Admin informing him the same.

- Also, we will check that each student is enrolled with not more than 9 credits per term. Once a student reaches that limit, the system will make sure that no course should be added for that student.

Mockup

- After pressing 2 after “Image 1”,

ENROLL STUDENT TO COURSES :

Course ID : CSCIXXXX

Start Term : DDMMYYYY

Enter Student ID(',', Separated) : BXXXX, BXXXX

PRESS “1”-> Save

PRESS “2”-> Cancel

*1 IS PRESSED

ALL STUDENTS HAVE BEEN ENROLLED!!!

PRESS “*”-> Go to Home

Error Handling

If an Admin enters a Student ID who already has a full quota with 9 credits already then the system will give an error.

ENROLL STUDENT TO COURSES :

Course ID : CSCIXXXX

Start Term : DDMMYYYY

Enter Student ID(',', Separated) : BXXXX, B123

PRESS “1”-> Save

PRESS “2”-> Cancel

*1 IS PRESSED

ENROLLMENT FAILED!! B123 ALREADY HAVE SUBJECT THAT WEIGHT TOGETHER TO 9 CREDITS

PRESS "*" -> [Go to Home](#)

- **Making General Announcement:**

Functionalities and Logic

- Once Admin presses 3 for this event from his Dashboard. We will give him the option to make an important announcement to all the students and faculty.
- For example, There may be any coding competition that is going to be held at the Computer Science Lab.
- Admin will be asked to make an announcement and the same announcement will be available in the student's dashboard.
- System will validate if Admin has typed some message before posting it. After confirmation from Admin, the announcement will be posted on the student's view announcement' area.

Mockup

- After pressing 1 after "Image 1",

MAKE NEW ANNOUNCEMENT

ANNOUNCEMENT TEXT: There will be a coding competition taking place at Computer Science Lab at 4:30 pm AT. Feel free to participate.

PRESS "1" -> [Save](#)

PRESS "2" -> [Cancel](#)

*1 IS PRESSED

ANNOUNCEMENT MADE !!!

PRESS "*" -> [Go to Home](#)

Error handling

- If user try to make the announcement without

MAKE NEW ANNOUNCEMENT:

ANNOUNCEMENT TEXT: There will be a coding competition taking place at Computer Science Lab at 4:30 pm AT. Feel free to participate.

PRESS "1"-> **Save**

PRESS "2"-> **Cancel**

*1 IS PRESSED

"NO ANNOUNCEMENT MADE!!"

PRESS "*" -> **Go to Home**

- **Logout:**

Functionalities and Logic

Once Admin presses 4 for this event from his Dashboard. He will be logged out from the System and will be redirected back to the application landing page.

Mockup

After pressing 4 after "Image 1",

YOU ARE SUCCESSFULLY LOGGED OUT!!!

> Who are you?

1. User

2. Admin

3. Faculty

-->

Error Handling

*In case of 4, Admin entered 5 or 6.

WRONG INPUT!!
PLEASE TYPE AGAIN!!

Student Module

- **Login:**

Functionalities and Logic

- After selecting the student login option on the homepage, the student will be redirected to the student login page.
- The student enters the valid username and password to login into the portal.
- After clicking the submit button, the student's credentials are verified.
- If the credentials match the details of the student in the student login credentials database, the student is redirected to the portal's dashboard with a message "Successfully Logged in".
- If the credentials do not match with any entries in the database, the user is notified with an incorrect username or password and redirected again to the student login page.

Mockup

```
Student Login ----->
Press 1 for Login
User presses 1
- Enter UserID - (User enters UserID and presses Enter)
- Enter Password - (User enters Password and presses Enter)
-If credentials match in the database ( User is
logged in)
```

- If a user presses anything except 1, the user will be notified to enter a valid input and will be redirected to the login page again.

- **Student:**

Functionalities and Logic

- After successful login, the student will be redirected to this page, called Student Home Page.
- The student is shown a list of available services For example -- If a student wants to view his attendance, he/she will give 5 as an input and the student would be automatically redirected to the attendance page.

Mockup

```
-----> Welcome "username"  
- Press 1 to view Notifications.  
- Press 2 to view Upcoming Lectures.  
- Press 3 to Display Announcements.  
- Press 4 to Add/Display Notes.  
- Press 5 to View Attendance.  
- Press 6 to Request Meeting.  
- Press 7 to Take a Quiz and View Grades.  
- Press 8 to Give a Feedback.  
- Press 9 to Logout
```

Error Handling

- If a student enters anything except 1,2,3,4,5,6,7,8,9 as an input, the student will be redirected to the **Student Home Page** and will be notified to enter a valid input.

● Notification Centre

Functionalities and Logic

- When a student enters 1 as an input on the Student **Home Page**, they will be redirected to this page.
- This page displays the top 10 recent notifications.
- The notifications include any new upcoming lectures, announcements, acceptance or rejection of meeting requests, and quiz grades.
- This service fetches the records from 4 different tables that are being handled by the services mentioned above and displays the 10 most recent entries as a notification. The recent entries are selected based on the time stamp.

- This timestamp is stored in the table for every entry which holds the information of the time at which the entry is created in the table.

Mockup

```
-----> Notification
Notification 2
Notification 3
    ..
    ..
Notification 10
Note: Notification 1 indicates the latest updated notification
from all mentioned tables.
- Press 2 to return to Student Home Page(Exit Notification).
```

Error Handling

- If a student enters anything except 2, the student will be notified to enter valid input and will be redirected to the **notification center** again.

- Upcoming Lectures

Functionalities and Logic

- When a student enters '2' as an input on the **Student Home Page**, the student is redirected to this page.
- **The Upcoming Lectures** page includes information about the upcoming lectures that are arranged by different faculties from different courses. It includes the time and date of the lecture along with the course name and faculty name.
- The student will be given options from the courses they are enrolled in and will be able to see the lecture details of any course by entering valid input. The list of lectures shown to a student would only be from the courses that a student is enrolled in. While fetching from a table, only courses that correspond to the student ID are fetched and displayed as an option.
- Admin while creating a new user will enroll the student in different courses. The student will only be able to see the courses that are relevant to them.

- When a student selects a specific course, all active upcoming lectures of the following course are listed by date(Earliest First).
- if a student enters '1', the lectures corresponding to subject 1 are shown to the user.

Mockup

```

-----> Upcoming Lectures
        -----> Please select the course
        - Press '1' for 'Subject 1'
        - Press '2' for 'Subject 2'
        ..
        ..
        - Press 'n' for 'Subject n'
        - Press 'exit' to go back to the home page

```

Error Handling

- If a student enters input except for the number of subjects, they will be notified by invalid input and redirected to the same page.
(Example: If there are 3 courses that a student is enrolled in, and the student enters 4 as an input).

● Announcements

Functionalities and Logic

- When a student enters '3' as an input on the Student Home page, the student will be redirected to the **Announcements** Section.
- Here the student can see announcements from all the faculties whose course he/she is enrolled in and the announcements from admin.
- The announcements could be course-specific or general.
- Any announcement that is made, is pushed in a table with the tag of the course or general.
- If it belongs to a specific course, only students opting for that course can see it.
- If the announcement in general, it can be seen by everyone.
- The latest announcements will be displayed first. It will be using a timestamp to order the announcements.

Mockup

```
-----> Announcements
- Announcement 1
- Announcement 2
..
..
- Announcement N
- Press '1' the return to home page
```

Error handling

→ If a user enters except '1', an invalid input error will be prompted and will be redirected to the same page.

- Add/Display Notes

Functionalities and Logic

- When a student enters '4' as an input, it will be redirected to this page.
- Here a student can select a course from the list of courses he/she is enrolled in.
- After selecting a course, he/she has the option either to add a new note or view an existing note that was created earlier.
- The student selects the option to create a new note. Then the student enters the subject of note and enters the content and presses create the note. This action adds his note to a specific course which he/she can review later.
- The student can see the list of subjects of the existing notes and can select any subject to review the note.
- As a student makes a note, the subject, content, and course are stored in a database.
- While retrieving a note, a student selects a course and then a subject to view a note.

Mockup

```
-----> Please Select the course
      Press "1" -> course 1
      Press "2" -> course 2
      ..
      ..
      *Presses '2' for course 2
          Press '1' to add a note
          Press '2' to view a note
          Press 3 to go back to home page
```

```

    *If Student presses 1
        Enter Subject
        Enter note

        Press "*" -> To go back

    *If user pressed 2
        Press "1" -> 'Subject of note'
        Press 2 to view 'Subject of note'
        ..
        ..

    *If user pressed 1
        ---> Note Subject(Display)
        ---> Note content(Display)

        Press "*" -> To go back

```

Error Handling

→ If a user enters any other input other than specified, the page reloads and asks the user to enter a valid input.

● View Attendance

Functionalities and Logic

- When a user enters '5' on the **home page**, it is taken to the attendance page where a student can view his/her attendance.
- First, the student selects the course from a list of enrolled courses.
- After selecting a course, the student is shown the number of lectures attended of that specific course out of the total number of lectures.
- Example: If a student of a Mathematics course has attended 15 lectures out of 18. It will show the subject name followed by 15/18.

Mockup

```
----> Please select course(Display)
      - Press '1' to select course 1
      - Press '2' to select course 2
      ..
      ..
      - If user pressed 1
        - Attendance for course 1 is x/y.
        - Press '1' to go back
      - Press 'exit' to go back to Home Page
```

Error Handling

→ If a user inputs anything except mentioned above, the page will be reloaded and the user will be asked to enter valid input.

● Request Meeting

Functionalities and Logic

- When a user presses '6' as input on **Home Page**, the student is redirected to request meeting service.
- Here a user can either create a new meeting request to a specific professor or view the status of previous meeting requests.
- If a user wants to create a new meeting request, he selects the name of the professor and the reason for the meeting. This action pushes the message of a student to the table.
- The selected professor receives the request with the name of the student and the reason provided by the student for the meeting. The professor then can accept the meeting and provide the time and date of the meeting or can reject the meeting. As the professor selects any of the options, their response is inserted in the table for the corresponding entry of request from the student.
- If the professor accepts the meeting, and enters the time and date of the meeting, this information is fetched on the student side and the student can see these details under view status of previous meeting requests.
- If the professor rejects the meeting, the student is notified under the same section i.e view status of previous meeting requests.

Mockup

- Press '1' to create a new meeting request
- Press '2' to view the status
 - Student enters '1'
 - Press 1 to send a request to Professor 'x'
 - Press 2 to send a request to Professor 'y'
 - ..
 - ..
 - Type reason of meeting
 - Press 'enter' to send a request
 - Press 'exit' to go back
 - Student enters '2'

---> Output of all meeting with status

Meeting ID	Faculty	Status	Date	Time
x101	XYZ	Accepted	01/04	11:00 AM
y201	XYZ	Rejected	'NULL'	'NULL'

- Press 'exit' to go back
- Press 'exit' to go back to the home page

Error Handling

Input other than mentioned in the mockup section will result in reloading the page and prompt an invalid input message.

- Take a quiz and view grades

Functionalities and Logic

- This service allows the student to take quizzes and view grades of the previously attended quiz.
- Each quiz can be attempted within a limited time period. Students can attend quiz only within the time period and a student is allowed to attempt quiz only once.
- Grades of the quiz are available once the time of quiz is expired. If the quiz is live, a student cannot view his grades in a specific quiz.
- When a student attempts a quiz, his student ID is associated with the quiz (The student's ID is added in the table of that quiz. Every time a user tries to attempt a quiz, the system checks if that student ID is present in the table of that specific quiz or not) which prohibits him to attempt the quiz the second time.
- After the quiz time expires, the student can view his grades. The details of the quiz are fetched from the quiz table and are displayed to the student.

- Mockup

- Press '1' to attempt quiz
- Press '2' to view grades.
- Press '3' to go back to the home page.

*User Enters '1'

---> Select course

- Press '1' for course x
- ..
- Press 'n' for course n
- Press 'exit' to go back

*User Enters '1'

---> Select quiz

- User selects a quiz and starts his/her attempt and Submit it once done.
- Press '*' to go back.
- User Enters '2'

---> Select Course

- Press '1' for viewing grades of x

```
..  
..  
- User Enters '1'
```

Grades of x are:

Quiz ID	Topic	Date	Grade
101	TDD	01/02	A+
102	CI	12/02	A-

```
- Press '*' to go back
```

Error Handling

- Any input except mentioned in the console will be treated as invalid input. The page will be reloaded and the user will be told to enter a valid input.
- If a user tries to take the same quiz twice, it prompts the message saying that the quiz is already attempted.

Give a Feedback

Functionalities and Logic

- When a student enters '8' on the home page, he/she is redirected to this page.
- This service helps users give feedback to the faculty.
- This service uses an automated escalation system. This means when a user gives feedback/complaint to a faculty, the faculty is given a specific amount of time to respond to it.
- Each feedback is associated with a feedback Id and the time and date it was registered.
- If the faculty fails to respond, the complaint is automatically sent to the faculty with higher authority.
- This makes sure that the student's feedback/complaints are heard properly and acted upon.

Mockup

- ```
- Select the faculty you want to send feedback to
 - Press '1' to send feedback to x
 - Press '2' to send feedback to y
```

```
..
- Press 'exit' to go back to the home page
 - User enters '1'
 - Type your feedback and press
 enter to submit the feedback.
 ---> Feedback sent successfully
 - Press 'exit' to go back
```

### Error Handling

If a user enters any inputs apart from the ones mentioned on the console, the page is reloaded and the user is asked to enter a valid input.

## Faculty Module

The user with the role of “Faculty” will have the authority to manage the lecture schedules for the respective courses , rolling out the course-specific announcements and handling the meetings with the students if requested.

- **Login**

#### Functionalities and Logic:

This module allows the user with the “Faculty” role to login into the application.

- ➔ After selecting the “Faculty” login option from the application Homepage, the user will be redirected to the Faculty Login Page.
- ➔ The user needs to enter the valid Username and password to login into the application.
- ➔ After entering the credentials, the application will verify the entered credentials with the database and if found valid, the user will be redirected to the Faculty’s dashboard section displaying the message “Faculty successfully logged in.”
- ➔ If the credentials are not valid, then the user will be notified with the message “Incorrect Username or Password” and will be asked to provide the valid credentials.
- ➔ After the user successfully logs in, he will be able to use other options.

### Mockups

Faculty Login -->

**Enter** FacultyID - XXXXX

**Enter** Password - \*\*\*\*\*

Login Successful!!

"Welcome Faculty!"

Press "1" -> Notification Centre

Press "2" -> Manage Lectures

Press "3" -> Send Announcement

Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

## Error Handling

→ If the user enters the invalid credentials, then the application will display the error message as below and the user will be asked to again enter the correct credentials.

Faculty Login -->

**Enter** FacultyID - XXXXX

**Enter** Password - \*\*\*\*\*

\*Faculty enters incorrect details

**"INCORRECT USERNAME OR PASSWORD"**

Please Enter the correct details.

**Enter** FacultyID - XXXXX

**Enter** Password - \*\*\*\*\*

- **Faculty HomePage**

### Functionalities and Logic

This is the home page for the user with the role of "Faculty" and the below are the modules that the user can use.

- Notification Centre
- ◆ This module will show the latest 10 notification messages about the other modules.
- Manage Lectures
- ◆ This module allows the faculty to schedule/cancel the lectures for the course he teaches.
- Send Announcements
- ◆ This module allows the faculty to send the course-wise announcements to the whole class that attends his respective lectures.
- Manage Meetings
- ◆ This module allows the faculty to approve/reject the meeting request raised by the students.
- View Feedbacks
- ◆ This module allows the faculty to view the feedback provided by the students.

## Mockups

```
Faculty Login -->
 Enter FacultyID - XXXXX
 Enter Password - *****
 Login Successful!!
 "Welcome Faculty!"
 Press "1" -> Notification Centre
 Press "2" -> Manage Lectures
 Press "3" -> Send Announcement
 Press "4" -> Manage Meetings
 Press "5" -> View Feedbacks
 Press "0" -> Logout
 Choose Option: 1 *User inputs 1 and presses Enter
key
```

```
Notification 1 : Student X has raised a meeting request.
Notification 2 : Student Y has raised a meeting request.
Notification 3 : Admin has made an announcement.
```

...

...

Notification 10 : Student Z has provided the feedback on course C1.

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: (User will enter \*/0 and then press the enter key)

## Error Handling

→ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

Faculty Login -->

Enter FacultyID - XXXXX

Enter Password - \*\*\*\*\*

Login Successful!!

"Welcome Faculty!"

Press "1" -> Notification Centre

Press "2" -> Manage Lectures

Press "3" -> Send Announcement

Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

Choose Option: 100 \*User inputs incorrect option.

## Incorrect Option selected!

Please enter the numeric options from the below given menu.

Press "1" -> Notification Centre

Press "2" -> Manage Lectures

Press "3" -> Send Announcement



Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

Choose Option: 1 (User will enter "1" and presses the enter key)

## ● Notification

### Functionalities and Logic

This module displays the latest 10 updates from the modules “Manage Meetings” and “View Feedbacks”.

- When the user chooses the option “1” from the Home Page, the application will redirect to this module.
- This module will display the latest 10 updates.
- The notifications include the meeting requests and the feedback from the students as well as the Announcements made by the Admin.
- At the backend, the application will fetch the records from the database tables which store the details related to the announcements made by the Admin , the meeting requests raised and the feedback provided by the students based on their creation timestamp.

### Mockups

Faculty Dashboard:

Press "1" -> Notification

Press "2" -> Manage Lectures

Press "3" -> Send Announcement

Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

Choose Option: 1 \*User inputs 1 and presses Enter key

Notification 1 : Student X has raised a meeting request.  
Notification 2 : Student Y has raised a meeting request.  
Notification 3 : Admin has made an announcement.  
...  
...  
Notification 10 : Student Z has provided the feedback on course C1.  
Press "\*" -> Go to Home  
Press "0" -> Log Out  
Choose Option: (User will enter \*/0 and then press the enter key)

## Error Handling

→ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

Notification 1 : Student X has raised a meeting request.  
Notification 2 : Student Y has raised a meeting request.  
Notification 3 : Admin has made an announcement.  
...  
...  
Notification 10 : Student Z has provided the feedback on course C1.  
  
Press "\*" -> Go to Home  
Press "0" -> Log Out  
Choose Option: 5 \*User enters the incorrect option.  
**Incorrect Option selected!**  
Please enter the numeric options from the below given menu.  
Press "\*" -> Go to Home  
Press "0" -> Log Out  
Choose option: 0 (User will enter \*/0 and then press the enter key)

- **Manage Lectures**

Functionalities and Logic

This module allows the faculty to manage the lectures for the courses allocated to the faculty.

- In this module, the faculty can schedule the lectures , reschedule the lectures and cancel the lectures for the courses allocated.
- Users need to choose the respective option to get redirected to this page.
- This module majorly performs CRUD operations on the database table that stores the data related to the Courses and the schedule of the lectures.

- **HomePage**

### Mockups

#### Faculty Home Page

```
Login Successful!!
```

```
 Welcome Faculty
```

```
 Press "1" -> Notification Centre
```

```
 Press "2" -> Manage Lectures
```

```
 Press "3" -> Send Announcement
```

```
 Press "4" -> Manage Meetings
```

```
 Press "5" -> View Feedbacks
```

```
 Press "0" -> Logout
```

```
 Choose Option: 2
```

```
*User will enter "2" and presses the enter key
```

```
Manage Lectures
```

```
Press "1"-> Schedule a Lecture
```

```
Press "2"-> Re-schedule a Lecture
```

```
Press "3"-> Cancel a Lecture
```

```
Press "*" -> Go to Home
```

```
Press "0" -> Log Out
```

```
Choose Option: (User will enter the correct option and then press the enter key)
```

### Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

```
Manage Lectures
Press "1"-> Schedule a Lecture
Press "2"-> Re-schedule a Lecture
Press "3"-> Cancel a Lecture

Press "*" -> Go to Home
Press "0" -> Log Out
Choose Option: 5
 *User enters the incorrect option
Incorrect Option selected!
Please enter the valid numeric option from the menu.
Choose option: 0 *User again enters the valid option
```

- **Schedule a Lecture**

### **Functionalities and Logic**

This page allows the faculty to schedule the lecture for any of the courses that he teaches.

### **Mockups**

```
Manage Lectures
Press "1"-> Schedule a Lecture
Press "2"-> Re-schedule a Lecture
Press "3"-> Cancel a Lecture

Press "*" -> Go to Home
Press "0" -> Log Out
Choose Option: 1
 *User will enter the correct option and then press the enter
 key

Schedule a Lecture
Your Courses:
ID: CSCI1234 Name: ABC
ID:CSCI2345 Name: XYZ
```

ID:CSCI3456 Name: FGH

Enter Course ID: CSCIXXXX

Enter Date-Time of the Lecture (DD/MM/YYYY HH/mm): 31/01/2021 11:30

Press "1" -> Save

Press "0" -> Cancel

Choose Option:1

Lecture scheduled successfully !!

Manage Lectures

Press "1" -> Schedule a Lecture

Press "2" -> Re-schedule a Lecture

Press "3" -> Cancel a Lecture

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option:

## Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

Schedule a Lecture

Your Courses:

ID: CSCI1234 Name: ABC

ID:CSCI2345 Name: XYZ

ID:CSCI3456 Name: FGH

Enter Course ID: CSCI1111

Enter Date-Time of the Lecture (DD/MM/YYYY HH/mm): 31/01/2021 11:30

Press "1" -> Save  
Press "0" -> Cancel  
Choose Option:1

Incorrect course ID entered!  
Enter Course ID: CSCI1111  
Press "1" -> Save  
Press "0" -> Cancel  
Choose Option:1

- Reschedule a Lecture

### Functionalities and Logic

This module allows the faculty to reschedule the already scheduled lectures.

- When the faculty selects the option to reschedule a lecture, we'll fetch the latest upcoming scheduled lectures from the respective database table, so that users can have the details of the scheduled lectures.

### Mockups

Manage Lectures  
Press "1"-> Schedule a Lecture  
Press "2"-> Re-schedule a Lecture  
Press "3"-> Cancel a Lecture

Press "\*" -> Go to Home  
Press "0" -> Log Out  
Choose Option: 2

\*User will enter the correct option and then press the enter key

Reschedule a Lecture

Your scheduled lectures:

-----

| LectureId | CourseId | DateTime         |
|-----------|----------|------------------|
| 1         | CSCI1234 | 30/01/2021 08:30 |
| 2         | CSCI2345 | 30/01/2021 13:05 |
| 3         | CSCI1234 | 31/01/2021 11:30 |

Enter LectureId: 1

Enter Date-Time of the Lecture (DD/MM/YYYY HH/mm): 31/01/2021 11:30

Press "1" -> Save

Press "0" -> Cancel

Choose Option:1

Lecture rescheduled successfully !!

Manage Lectures

Press "1"-> Schedule a Lecture

Press "2"-> Re-schedule a Lecture

Press "3"-> Cancel a Lecture

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option:

## Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

Reschedule a Lecture

Your scheduled lectures:

| LectureId | CourseId | DateTime |
|-----------|----------|----------|
|-----------|----------|----------|

|       |   |  |          |  |                  |  |
|-------|---|--|----------|--|------------------|--|
|       | 1 |  | CSCI1234 |  | 30/01/2021 08:30 |  |
| ----- |   |  |          |  |                  |  |
|       | 2 |  | CSCI2345 |  | 30/01/2021 13:05 |  |
| ----- |   |  |          |  |                  |  |
|       | 3 |  | CSCI1234 |  | 31/01/2021 11:30 |  |
| ----- |   |  |          |  |                  |  |

Enter LectureId: 4 \*User Enters the incorrect LectureId  
 Enter Date-Time of the Lecture (DD/MM/YYYY HH/mm): 31/01/2021 11:30  
 Press "1" -> Save  
 Press "0" -> Cancel  
 Choose Option:1

Incorrect lectureID entered!  
 Enter LectureId: 1 \*User enters the correct details.  
 Enter Date-Time of the Lecture (DD/MM/YYYY HH/mm): 31/01/2021 11:30  
 Press "1" -> Save  
 Press "0" -> Cancel  
 Choose Option:1  
 Lecture rescheduled successfully !!

- **Cancel a Lecture**

### Functionalities and Logic

This module allows the faculty to cancel any of the scheduled lectures.

➔ When the faculty selects the option to cancel a lecture, we'll fetch the latest upcoming scheduled lectures from the respective database table, so that user can have the details of the scheduled lectures to be cancelled.

### Mockups

Manage Lectures  
 Press "1" -> Schedule a Lecture  
 Press "2" -> Re-schedule a Lecture  
 Press "3" -> Cancel a Lecture  
  
 Press "\*" -> Go to Home



Press "0" -> Log Out

Choose Option: 3

\*User will enter the correct option and then press the enter key

### Cancel a Lecture

Your scheduled lectures:

| LectureId | CourseId | DateTime         |
|-----------|----------|------------------|
| 1         | CSCI1234 | 30/01/2021 08:30 |
| 2         | CSCI2345 | 30/01/2021 13:05 |
| 3         | CSCI1234 | 31/01/2021 11:30 |

Enter LectureId: 1

Press "1" -> Save

Press "0" -> Cancel

Choose Option:1

Lecture 1 has been cancelled !!

## Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

Manage Lectures

Press "1" -> Schedule a Lecture

Press "2" -> Re-schedule a Lecture

Press "3" -> Cancel a Lecture

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 3

\*User will enter the correct option and then press the enter key

### Cancel a Lecture

Your scheduled lectures:

| LectureId | CourseId | DateTime         |
|-----------|----------|------------------|
| 1         | CSCI1234 | 30/01/2021 08:30 |
| 2         | CSCI2345 | 30/01/2021 13:05 |
| 3         | CSCI1234 | 31/01/2021 11:30 |

Enter LectureId: 4 \*User enters the incorrect lectureId

Press "1" -> Save

Press "0" -> Cancel

Choose Option:1

Incorrect lectureID entered!

Enter LectureId: 1 \*User enters the correct details.

Press "1" -> Save

Press "0" -> Cancel

Choose Option:1

Lecture 1 has been cancelled !!

## ● Send Announcements

### Functionalities and Logic

This module allows the Faculty to make an announcement for the whole class of the students who attend the courses taught by the Faculty.

→ The faculty needs to choose the option "3" from the Home Page to get redirected to this page.

- Add Announcements

### Functionalities and Logic

This page allows the faculty to add any announcements for the whole class.

### Mockups

#### Faculty Dashboard:

Press "1" -> Notification Centre

Press "2" -> Manage Lectures

Press "3" -> Send Announcement

Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

Choose Option: 3

\*User inputs 1 and presses Enter key

#### Announcements

Press "1" -> Add Announcement

Press "2" -> View Announcement

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1 (User will enter the correct option and then press the enter key)

#### Make an announcement

Enter Course ID : CSCI1234 \*User will enter the Course ID for which the announcement is to be made.

Enter Announcement Message: Today's synchronous session link is:

CollaborateUltra\_link (user needs to enter the announcement message.)

Press "1" -> Save

Press "0" -> Cancel

Choose Option: 1 (User will enter the correct option and then press the enter key)

Announcement added successfully!!

### Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

#### Make an announcement

Enter Course ID : CSCIXXXX \*User enters the incorrect Course ID

Enter Announcement Message: Today's [synchronous session link is:](#)

[CollaborateUltra\\_link](#) (user needs [to](#) enter the announcement message.)

Press "1" -> Save

Press "0" -> Cancel

Choose [Option](#): 1 (User will enter the correct [option and then](#) press the enter [key](#))

#### Incorrect Course ID entered!

Please enter the correct courseid.

Enter Course ID : CSCIXXXX \*User enters the correct Course ID

Enter Announcement Message: Today's [synchronous session link is:](#)

[CollaborateUltra\\_link](#) (user needs [to](#) enter the announcement message.)

Press "1" -> Save

Press "0" -> Cancel

Choose [Option](#): 1 (User will enter the correct [option and then](#) press the enter [key](#))

[Announcement added successfully!!](#)

- View Announcements

#### Functionalities and Logic

This page will allow the faculty to view the created announcements

#### Mockups

#### Announcements

Press "1" -> Add Announcement

Press "2" -> View Announcements

Press "\*" -> Go [to](#) Home

Press "0" -> Log Out

Choose [Option](#): 2 \*User will enter the correct option [and then](#) press the enter key

### Previous Announcements

| CourseId | AnnouncementDate | AnnouncementMessage                                                                                          |
|----------|------------------|--------------------------------------------------------------------------------------------------------------|
| CSCI1234 | 28/01/2020 11:54 | Today's synchronous session link is: <a href="https://www.Zoom.com/dasiduo">https://www.Zoom.com/dasiduo</a> |
| CSCI2345 | 27/01/2021 11:30 | Today's class has been cancelled.                                                                            |

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 2 \*User will enter the correct option and then press the enter key

### Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

### Announcements

Press "1" -> Add Announcement

Press "2" -> View Announcements

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 5 \*User enters the incorrect option and then press the enter key

Incorrect option selected!

Please enter the valid numeric option from the menu.

Choose option: 0 \*User again enters the valid option

- Manage Meetings

Functionalities and Logic

This module allows the faculty to view the meeting requests from the students and approve/ reject the request.

- The Student will raise a meeting request to the respective Faculty of the course in which he/she is enrolled.
- The faculty will get a notification in the “Notification Centre” and the request can be approved/rejected from this module.
- If the Faculty wants to approve the meeting request, he/she needs to enter the meeting data & time and Remarks/Message for the student.
- If the Faculty wants to reject the meeting request, then he/she needs to enter the meeting Id of the meeting request to be rejected and the remarks/message for the student.
- The Faculty has to choose the correct option ( option:4) from the home page to view the meeting requests.

## ● Meeting Requests HomePage

### Mockups

Faculty Dashboard:

Press "1" -> Notification Centre

Press "2" -> Manage Lectures

Press "3" -> Send Announcement

Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

Choose Option: 4 \*User inputs 4 and presses Enter key

Meeting Requests

Press "1"-> Pending requests

Press "2"-> Approved requests

Press "3"-> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1 (User will enter the correct option and then press the enter key)

- Pending Requests

### Functionalities and Logic

This module will show the meeting requests raised by all the Students.

### Mockups

Faculty Dashboard:

Press "1" -> Notification Centre

Press "2" -> Manage Lectures

Press "3" -> Send Announcement

Press "4" -> Manage Meetings

Press "5" -> View Feedbacks

Press "0" -> Logout

Choose Option: 4 \*User inputs 4 and presses Enter key

#### Meeting Requests

Press "1"-> Pending requests

Press "2"-> Approved requests

Press "3"-> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1 (User will enter the correct option and then press the enter key)

#### Pending requests

Total requests: 15

| -----     |             |                 |
|-----------|-------------|-----------------|
| RequestId | StudentName | Student Message |
| -----     |             |                 |
| 101       | ABC         | Message1        |
| -----     |             |                 |
| 102       | XYZ         | Message2        |
| -----     |             |                 |

Enter RequestId to approve/reject : 101

\*Faculty will enter the request id of the meeting to be approved or rejected

Meeting Request: 101

Requested by: ABC

Message: Message1

Press "1" -> To Approve the meeting request

Press "0" -> To reject the meeting request

Choose option: 1

Enter Meeting Time(DD/MM/YYYY HH:mm):

(Faculty needs to enter the datetime of the meeting)

Enter Remarks:

(Faculty can enter the remarks/message for the student if needed)

Press "1" -> Save

Press "0" -> Cancel

Choose Option: 1

Meeting Request 101 Approved!

Meeting Requests

Press "1" -> Pending requests

Press "2" -> Approved requests

Press "3" -> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1 (User will enter the correct option and then press the enter key)

## Error Handling

→ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.



### Pending requests

Total requests: 15

| RequestId | StudentName | Student Message |
|-----------|-------------|-----------------|
| 101       | ABC         | Message1        |
| 102       | XYZ         | Message2        |

Enter RequestId to approve/reject : 111

\*Faculty enters the incorrect request id of the meeting to be approved or rejected

Incorrect request ID entered!

Please enter the correct request Id.

Meeting Request: 101

Requested by: ABC

Message: Message1

Press "1" -> To Approve the meeting request

Press "0" -> To reject the meeting request

Choose option: 1

Enter Meeting Time(DD/MM/YYYY HH:mm):

(Faculty needs to enter the datetime of the meeting)

Enter Remarks:

(Faculty can enter the remarks/message for the student if needed)

Press "1" -> Save

Press "0" -> Cancel

Choose Option: 1

Meeting Request 101 Approved!

### Meeting Requests

Press "1" -> Pending requests

Press "2" -> Approved requests

Press "3" -> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1

- Approved Requests

Functionalities and Logic

This module will show all the approved meeting requests.

Mockups

### Approved Meeting requests

| RequestId | StudentName | StudentMessage | MeetingTime      | FacultyRemarks |
|-----------|-------------|----------------|------------------|----------------|
| 101       | ABC         | Message1       | 31/01/2021 8:30  | Remarks1       |
| 102       | XYZ         | Message2       | 31/01/2021 10:30 | Remarks2       |

### Meeting Requests

Press "1" -> Pending requests

Press "2" -> Approved requests

Press "3" -> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1 (User will enter the correct option and then press the enter key)

## Error Handling

→ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

### Meeting Requests

Press "1" -> Pending requests

Press "2" -> Approved requests

Press "3" -> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 5 (User enters the incorrect option and then press the enter key)

Incorrect option selected!

Please enter the valid numeric option from the menu.

Choose option: 0 \*User again enters the valid option

- Rejected Requests

#### Functionalities and Logic

This module will show all the rejected meeting requests.

#### Mockups

### Rejected Meeting requests

| -----     |             |                |                |  |
|-----------|-------------|----------------|----------------|--|
| RequestId | StudentName | StudentMessage | FacultyRemarks |  |
| -----     |             |                |                |  |
| 101       | ABC         | Message1       | Remarks1       |  |
| -----     |             |                |                |  |
| 102       | XYZ         | Message2       | Remarks2       |  |
| -----     |             |                |                |  |

### Meeting Requests

Press "1" -> Pending requests

Press "2" -> Approved requests

Press "3" -> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 1 (User will enter the correct option and then press the enter key)

## Error Handling

→ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

### Meeting Requests

Press "1" -> Pending requests

Press "2" -> Approved requests

Press "3" -> Rejected requests

Press "\*" -> Go to Home

Press "0" -> Log Out

Choose Option: 5 (User enters the incorrect option and then press the enter key)

Incorrect option selected!

Please enter the valid numeric option from the menu.

Choose option: 0 \*User again enters the valid option

- View Feedbacks

### Functionalities and Logic

This module allows the faculty to view the feedback provided by the students for the courses taught by him.

→ In order to view all the feedback, the faculty needs to choose the option "5" from the home page.

→ At a time, faculty will be able to see 5 feedbacks.

### Mockups

Student Feedbacks

Feedback1:

CourseID:1234

```
Date:27/01/2021 13:50
Message: The session was quite interactive.
Feedback2:
...
Feedback15:
Press "*" -> Go to Home
Press "0" -> Log Out
Choose Option: * (User will enter the correct option and then press the enter key)
```

## Error Handling

➔ If the user enters anything except the given Menu options, then the application will display the error message as below and the user will be asked to again choose the correct Menu option until the correct option is selected.

```
Student Feedbacks
Feedback1:
CourseID:1234
Date:27/01/2021 13:50
Message: The session was quite interactive.
Feedback2:
...
Feedback15:
Press "*" -> Go to Home
Press "0" -> Log Out
Choose Option: 1 *User will enters the incorrect option and then press the enter key
Incorrect option selected!
Please enter the valid numeric option from the menu.
Choose option: 0 *User again enters the valid option
```

## Timeline

| Sprint | Modules        | Weeks  | Percentage of functional Completeness |
|--------|----------------|--------|---------------------------------------|
| 1      | 1. Setting up, | Week 1 | 5%                                    |

|   |                                                                                                                                                                                                                         |         |      |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|
|   | 2. Console,                                                                                                                                                                                                             |         |      |
|   | 1. UML,<br>2. Login/Logout                                                                                                                                                                                              | Week 2  | 15%  |
| 2 | 1. Add User(Admin),<br>2. Add course(Admin),<br>3. Schedule a lecture(Faculty)                                                                                                                                          | Week 3  | 25%  |
|   | 1. Setting up CI/CD pipeline,<br>2. View Attendance,<br>3. Notes (Adding, View)                                                                                                                                         | Week 4  | 35%  |
| 3 | 1. View Notification,<br>2. Send announcement                                                                                                                                                                           | Week 5  | 40%  |
|   | 1. Send Feedback,<br>2. Complaint Escalation Module                                                                                                                                                                     | Week 6  | 55%  |
| 4 | 1. Refactoring code for (optional) deadline                                                                                                                                                                             | Week 7  | 75%  |
|   | 1. Add a test, Tests(User).                                                                                                                                                                                             | Week 8  | 80%  |
| 5 | 1. Grading,<br>2. Grading Scheduler                                                                                                                                                                                     | Week 9  | 90%  |
|   | 1. CI/CD,<br>2. Final wrap up for delivery and making the project submission ready.<br><b>Advanced deliverables:</b><br><br>Things that can be done if we have more time:<br><br>- Meeting related View,<br>- Schedule, | Week 10 | 100% |

|  |                                                                                      |  |  |
|--|--------------------------------------------------------------------------------------|--|--|
|  | <ul style="list-style-type: none"><li>- Accept/Reject.</li><li>- Better UI</li></ul> |  |  |
|--|--------------------------------------------------------------------------------------|--|--|

----End of Document----