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1.0 Refinement of Agile Planning and SRS

The SRS and Agile plan were enhanced using stakeholder feedback to serve users' needs more effectively.

1.1 Review Process and Updated SRS

The functional and non-functional requirements were reviewed and updated to suit existing system goals.

1.1.1 Functional Requirements

ID	Features	Description

FR1	User Registration	This feature allows students, lecturers, and administration staff to securely register and log in to the system with university credentials. Users are granted profile-based access (student, lecturer, or admin).
FR2	Profile Management	Users can view and edit their own individual profiles, i.e., academic details, profile image, contribution history, and visibility options. Students may choose what they wish to display to the world.
FR3	Groupedln Module	A smart module that allows students to search, create, or join project teams within enrolled courses. Group leaders may accept or reject join invitations based on interests, allowing for better team compatibility and coordination.
FR4	Project Tracking	Allow students to monitor their group project status, deadlines, assigned tasks, and submission status. Team leaders can assign responsibility, while each member can change the status of their respective tasks.
FR5	Consultation System	Allows students and especially students leaders to request consultations with lecturers through an in-built messaging interface. Lecturers can view requests, leave comments or attachment files of feedback, all within the platform.
FR6	Peer Feedback	The students can anonymously evaluate their group members upon project completion using a scale-based system with optional comments. It promotes fairness, accountability, and participation.
FR7	Settings Management	It provides automatic notification to users about impending deadlines, new announcements, unread messages, or pending consultation feedback. It keeps the users updated in real time.
FR8	Notification Center	Permits users to personalize their account settings like notification options, privacy settings, and interface behavior. This promotes a user-friendly and personalized experience.
FR9	Admin Control Panel	Allow system administrators to enable, disable, or monitor platform features. Admins can control user roles, monitor system analytics, and manage announcements or technical support functionality.
FR10	Dashboard	A home page that provides users with an overview of their tasks, group activity, announcements, and system shortcuts. The dashboard is role-dependent and varies based on the user's role (student, leader, lecturer, or admin).

1.1.2 Non- Functional Requirements

ID	Features	Description
NFR1	Performance	The system must ensure smooth and responsive performance, with the longest page load in 2 seconds in typical use. It must be able to support more than 1,000 simultaneous users without inducing notable delay or impairment of user experience.
NFR2	Security	Security is paramount because of managing academic records as well as personal group communications. The system should be provided with secure login (OAuth 2.0), encrypted data transfer (SSL/TLS), role-based access control (RBAC), as well as regular vulnerability scans to safeguard user information.
NFR3	Scalability	The platform must be scalable for future development. It must support cloud-based infrastructure and offer seamless scaling to accommodate increasing numbers of users and courses without performance degradation.
NFR4	Availability	The system should maintain at least 99.9% up time with automatic recovery features and backups to ensure that data does not get lost. Maintenance windows should be pre-announced and scheduled to users.
NFR5	Maintainability	MyGroups should be implemented on a modular codebase with easy debugging, regular updating, and continuous integration/deployment (CI/CD). Changes to one module should not affect the entire system.
NFR6	Usability	The system should have the ability to listen to a friendly and simple interface. Users should be able to use the system with ease even if they are new users and do not require detailed instruction. The parts of the interface should be well-designed in all modules.
NFR7	Accessibility	The system should comply with Web Content Accessibility Guidelines (WCAG 2.1). It should support keyboard navigation, screen readers, and high-contrast themes for disabled users.
NFR8	Compatibility	MyGroups must function adequately on all major web browsers (Chrome, Firefox, Safari, Edge) and operating systems (Windows, macOS, Linux, Android, iOS). It must also cater to desktop and mobile use through responsive design.

1.2 Refined Agile Planning Documents

1.2.1 Product Backlog for Newly Identified Features

ID	Story points	Priority	User Story
US-NFR1	**3**	High	As a user, I want the system to load pages quickly, so I can navigate smoothly without delays
US-NFR2	**5**	High	As a user, I want my personal data and academic records to be secure, so I can trust the system.
US-NFR3	**5**	Medium	As a system admin, I want the platform to scale easily, so we can support more users in the future.
US-NFR4	**3**	High	As a user, I want the system to always be available, so I can access my information at any time.
US-NFR5	**3**	Medium	As a developer, I want modular code so changes can be made without breaking the whole system.
US-NFR6	**5**	High	As a first-time user, I want an intuitive interface, so I can use the system without a learning curve.
US-NFR7	**8**	Medium	As a visually impaired user, I want accessibility features like keyboard nav and high contrast themes.
US-NFR8	**4**	High	As a user, I want the system to work on any device or browser, so I can access it anywhere easily.

1.2.2 Refined Sprint Goals

Sprint	**Refined Sprint Goal**

Sprint 1	Ensure system performance meets speed standards and works across all major browsers and devices.
Sprint 2	Implement robust security features including secure login and encrypted data handling.
Sprint 3	Improve system interface usability and add accessibility features for inclusive user experience.
Sprint 4	Optimize scalability, maintainability, and ensure system uptime with CI/CD and recovery support.

1.2.3 Refined Prioritized Tasks

Related User Story	Story Points	Priority	Task Description
US-NFR1	**2**	High	**Optimize backend database queries and implement caching mechanisms** to reduce response time during high traffic. This ensures users experience fast page loads and smooth performance.
US-NFR1	**1**	High	**Conduct performance benchmark testing** using tools like JMeter or Lighthouse to verify that all pages load within 2 seconds under typical load.
US-NFR2	**3**	High	**Integrate secure login using OAuth 2.0 protocol** to ensure user credentials are not exposed. This allows secure third-party login methods.
US-NFR2	**1**	High	**Implement SSL/TLS certificates** to encrypt all data transfer between the client and server, ensuring confidentiality and integrity.
US-NFR2	**3**	High	**Develop Role-Based Access Control (RBAC)** system to ensure only authorized users can access certain features or data.
US-NFR3	**3**	Medium	**Set up auto-scaling cloud infrastructure** (e.g., AWS, Azure) to allow the system to

			handle increased load without downtime or performance issues.
US-NFR4	**2**	High	**Configure uptime monitoring tools** (e.g., UptimeRobot, Pingdom) to ensure 99.9% availability and send alerts if the system goes down.
US-NFR4	**2**	High	**Establish automated backup and recovery systems** to ensure data persistence even in cases of unexpected shutdowns or crashes.
US-NFR5	**2**	Medium	**Refactor the existing code into modular components** to ensure that changes in one module do not affect others, supporting maintainability.
US-NFR5	**2**	Medium	**Set up a CI/CD pipeline** (using GitHub Actions, Jenkins, or GitLab CI) for continuous integration and deployment to speed up the development process while ensuring quality.
US-NFR6	**3**	High	**Redesign the user interface with a focus on simplicity and clarity,** including intuitive icons, clear buttons, and straightforward navigation menus.
US-NFR6	**2**	High	**Conduct usability testing with new users** to identify pain points and improve UI design without needing extensive training.
US-NFR7	**5**	Medium	**Implement accessibility features** such as keyboard navigation, screen reader support (using ARIA labels), and high-contrast themes to support visually impaired users.
US-NFR8	**2**	High	**Test and optimize system compatibility** across all major browsers (Chrome, Firefox, Safari, Edge) to ensure consistent behavior.
US-NFR8	**2**	High	**Implement responsive web design** so that the interface adjusts smoothly on desktops, tablets, and mobile phones.

2.0 Sprint Execution and Iterative Development

Sprint 1: Core Features

Objective:

Sprint 1 will aim at laying the base functionality of the platform with a specific line of action on the task management. This involves creation of tasks, assigning tasks and including Kanban board to give visual representation of tasks.

Key Tasks:

Creation and Assignment of Task:

- Apply the most basic functionality that fits the needs of adding, editing, deleting and assigning tasks.
- Tasks can be segregated into categories so that they are easily managed by the user.
- Kanban Board View – Learn to create a Kanban board in order to see the status of tasks (e.g. To-Do, In Progress, Completed).
- Grant the ability to move the tasks within the columns of the board to track tasks.
- Daily Scrums – Make Daily Scrum with the aim of reviewing the progress, pitfalls, and daily plans. These are applied to have the team aligned and work out the blockers as soon as possible.
- Record the advancements and/or issues that we have encountered and their status.

Deliverables:

- A simple model which involves:
  Task management functions (creating, assigning and categorizing tasks).
- An interactive Kanban board in its complete form.
- Daily Scrum Logs: to monitor the team progress and point out the challenges.

Sprint 2: Collaboration Features

Objective:

Sprint 2 develops the collaboration aspects of the platform in making the teamwork more efficient. This involves the possibility of comments and instant updates on the tasks that the members in a team can interact with and give each other the feedback that they need.

Key Tasks:

- Commenting Functionality:
  Make task commenting be able so that users could share a common ground to talk about the status of each task, challenge they have encountered, or anything about the task. Include new-comment notifications to be able to communicate in time.

- Real time Task Updates:
  To make sure that any updating of the tasks (change of status, new comments, recipients of tasks) would be seen by everyone upon it being changed, implement real-time updates.

- Usability and feedback of the user:
  Make tests with the users to obtain feedback on the ease of use of the commenting system and the real time updates. According to the feedback, enhance user interface, streamline interactions, and squish bugs, when needed.

Deliverables:

- Interactive map consisting of:
  1) Tasks allow commenting to work in a team.
  2) Immediate updates based on the changes in real time uniform to all the users.
  3) Improved feedback based user interface.

Sprint 3: End improvements

Objective:

The last sprint is dedicated to the optimization of the non-functional features of the platform, like performance and security, and the implementation of the dashboard that can provide the progress. All the core features are also determined in terms of delivery in this sprint.

Key Tasks:

- Tracking of progress dashboards:
  Develop visual dashboards to monitor collective progress of work, teams and users. Dashboards must show informative and easily understandable data to demonstrate the task completion percentage, the hierarchy of the tasks, and other advances.

- Non-functional aspects optimization:
  Concentrate on enhancing the efficiency of the platform and be able to obtain enough users (up to 100 concurrent users). Make security infallible and give access control based on the roles and ensure that sensitive user data is in safe custody.

- Final Testing and Refinement:
  The platform should be tested with a larger number of users and problems regarding the performance should be addressed. Assemble the last laps of the usability test to polish the user experience and make sure that everything works as imagined.

Deliverables:

- The beta version of the platform that includes:
  1) Complete incorporated progress snapshots.
  2) Performance and improved security.
  3) The polished main aspects of the past sprints.

2.1 Daily Scrum Log

Daily Scrum Log: Sprint 1

Focus: User Registration, Profile, Dashboard, Announcements Page

Date	What Was Done Yesterday	What Will Be Done Today	Any Blockers?
2025-06-06	Initial project setup, defined team responsibilities	Start on user registration module setup	None
2025-06-07	Implemented user registration (front-end)	Connect registration with database (back-end)	None
2025-06-08	Connected registration logic	Start on profile module	None
2025-06-09	Developed profile module	Build basic dashboard layout	None
2025-06-10	Finished dashboard + announcements page	Begin testing and internal feedback	None

Daily Scrum Log: Sprint 2

Focus: Courses Module, Projects Module, Announcements Page

Date	What Was Done Yesterday	What Will Be Done Today	Any Blockers?
2025-06-11	Reviewed sprint backlog and planned task flow	Begin development on Courses module layout	None
2025-06-12	Started Courses module UI and linked subject list	Implement subject filtering and alert placeholders	None
2025-06-13	Finalized course display for enrolled subjects	Add alert logic for assignments in each course	None
2025-06-14	Linked course alerts to project deadlines	Begin Projects module layout	None
2025-06-15	Set up basic Projects UI structure	Add deadline tracker to Projects module	Database sync delay
2025-06-16	Completed backend for project assignment tracking	Connect project to subject context	None

2025-06-17	Finished project list + deadline UI	Begin announcement page backend	None
2025-06-18	Connected announcements module with database	Design styling for announcements and layout tweaks	Minor UI overflow issue
2025-06-19	Cleaned up announcements + added date formatting	Conduct integration test between Courses and Projects	None
2025-06-20	Completed sprint features & fixed minor issues	Prepare for Sprint 2 review and internal testing	None

Daily Scrum Log: Sprint 3

Focus: Project Tracking, Consultation Module, Peer Feedback System

Date	What Was Done Yesterday	What Will Be Done Today	Any Blockers?
2025-06-22	Reviewed Sprint 3 plan and task assignment	Start Project Tracking module layout	None

2025-06-23	Created To-Do checklist UI for tracking	Link tasks to individual group members	None
2025-06-24	Added task status update + completion logic	Start Consultation Module design	None
2025-06-25	Built student view for consultation requests	Create lecturer view and approval interface	None
2025-06-26	Completed lecturer reply function	Design Peer Feedback form and rating system	None
2025-06-27	Connected feedback form to user profile	Add optional comment section + anonymity option	None
2025-06-28	Finalized peer review module	Begin internal testing of feedback and consultation flows	None
2025-06-29	Fixed bugs in feedback view and edited UI colors	QA test all Sprint 3 modules	None
2025-06-30	Reviewed overall progress with team	Implement feedback from team testing	None

2025-07-01	Cleaned up UI and code for Sprint 3 finalization	Prepare for sprint review + documentation update	None

Daily Scrum Log: Sprint 4

Focus: GroupedIn™, Notifications, Guide Page, Settings, Final Testing

Date	What Was Done Yesterday	What Will Be Done Today	Any Blockers?
2025-07-02	Planned sprint tasks and finalized feature priorities	Start GroupedIn™ smart search layout	None
2025-07-03	Developed GroupedIn™ UI and group filter option	Add join request logic and subject-based search	None
2025-07-04	Finished join request backend	Link GroupedIn™ to student profile context	Request history not saving
2025-07-05	Started Notifications module layout	Add backend triggers for alerts	None
2025-07-06	Connected notifications and	Begin guide page design and layout	None

	tested real-time updates		
2025-07-07	Created basic guide content and UI flow	Setup Settings module (privacy, preferences)	None
2025-07-08	Finished settings features	Start internal testing (all new modules)	None
2025-07-09	Bug fixing and visual polish	Test responsiveness on multiple screen sizes	None
2025-07-10	Conducted full system test and reviewed with team	Apply final fixes based on test feedback	None
2025-07-11	Finalised all modules + submitted project	Prepared final presentation and documentation	None

3.0 Prototype and Functional Beta Platform

3.1 Test Functionality

This phase of testing is aimed at assessing the functional usability of the created prototype of the user of the real users. Main stress is made on convenient and user-friendly user experience that will adhere to the SRS set expectations.

The key areas as checked at this stage are:

1. **Navigation Ease:**
   The ease of navigation through any web site or software is of the essence here. To make sure that a user is not confused or delayed navigating through various pages and modules of the system.
2. **User experience (UX):**
   Assessing the ease of use of the interface elements like buttons, menus, and notifications, etc., particularly by users going through the system for the first time.
3. **Efficiency of User:**
   Interaction Finding out any pain points or obstacles users might encounter when doing their tasks and reviewing overall fluidity of performing typical actions.

3.1.1 Usability Testing Methodology

The usability testing took the task-based procedure with student and company respondents. The participants were provided with a series of situations corresponding to the typical activities like logging in, adding feedback or checking the progress of the group. Observation and interview after the task was used in order to collect qualitative and quantitative information.

There were five participants who participated in this step:

3 students (different roles: members, leaders)

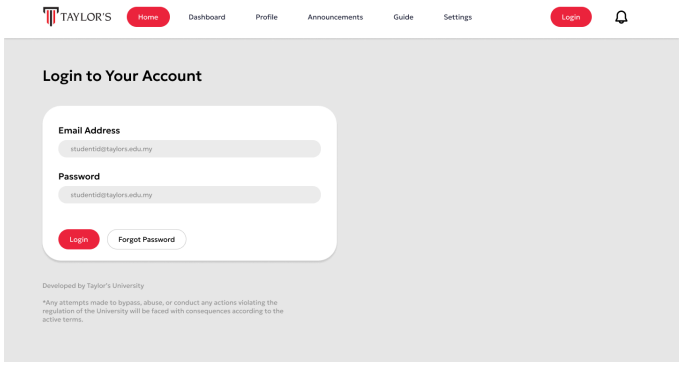
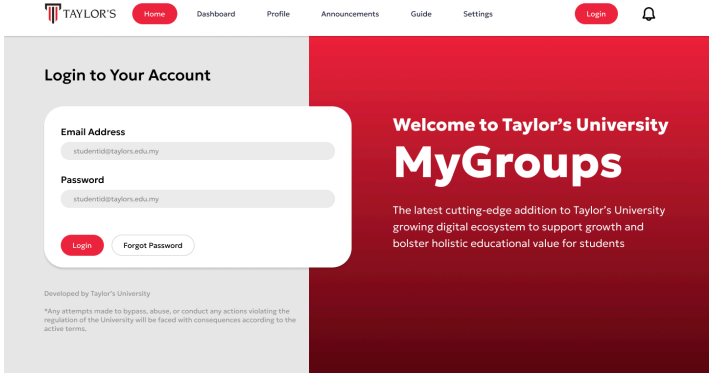
2 external users (on behalf of company or administrative reviewers)

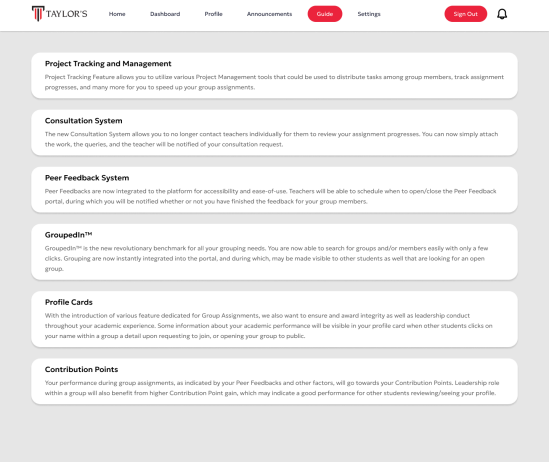
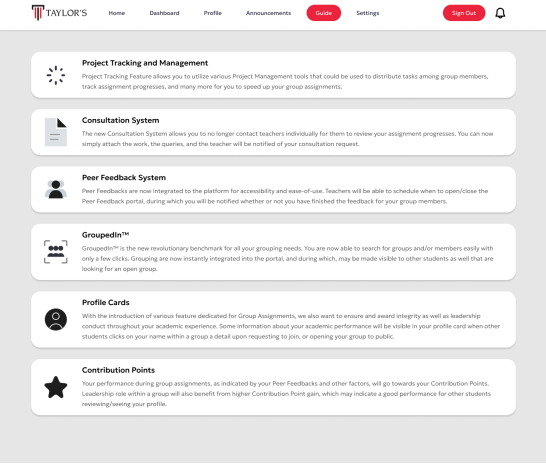
The testing of the prototype was made to reveal the points of enhancement regarding clarity, navigation and task flow. Various elements of the UI were also improved on the criteria of user actions and feedback.

Evaluation criteria

Metric	Description
Task Completion Time	evaluates how long it takes for participants to finish particular tasks.
Error Rate	determines the number of navigation or interface mistakes that happened during testing.
User Satisfaction Rating	uses a post-task evaluation questionnaire to gauge overall user satisfaction.

3.1.2 Test Results and Improvements

Features	User Feedback	Prototype Improvement
Login Page	Users stated that the login page functionality is already smooth and responsive; however, it lacks visual appeal, and it would be more convenient to have a more “colorful” scheme.	Original Prototype :  Improved Prototype 

Student Guide Page	Users stated that the Guideline Page is not appealing enough. The large amount of text makes it unattractive.	Original Prototype :  Improved Prototype : 

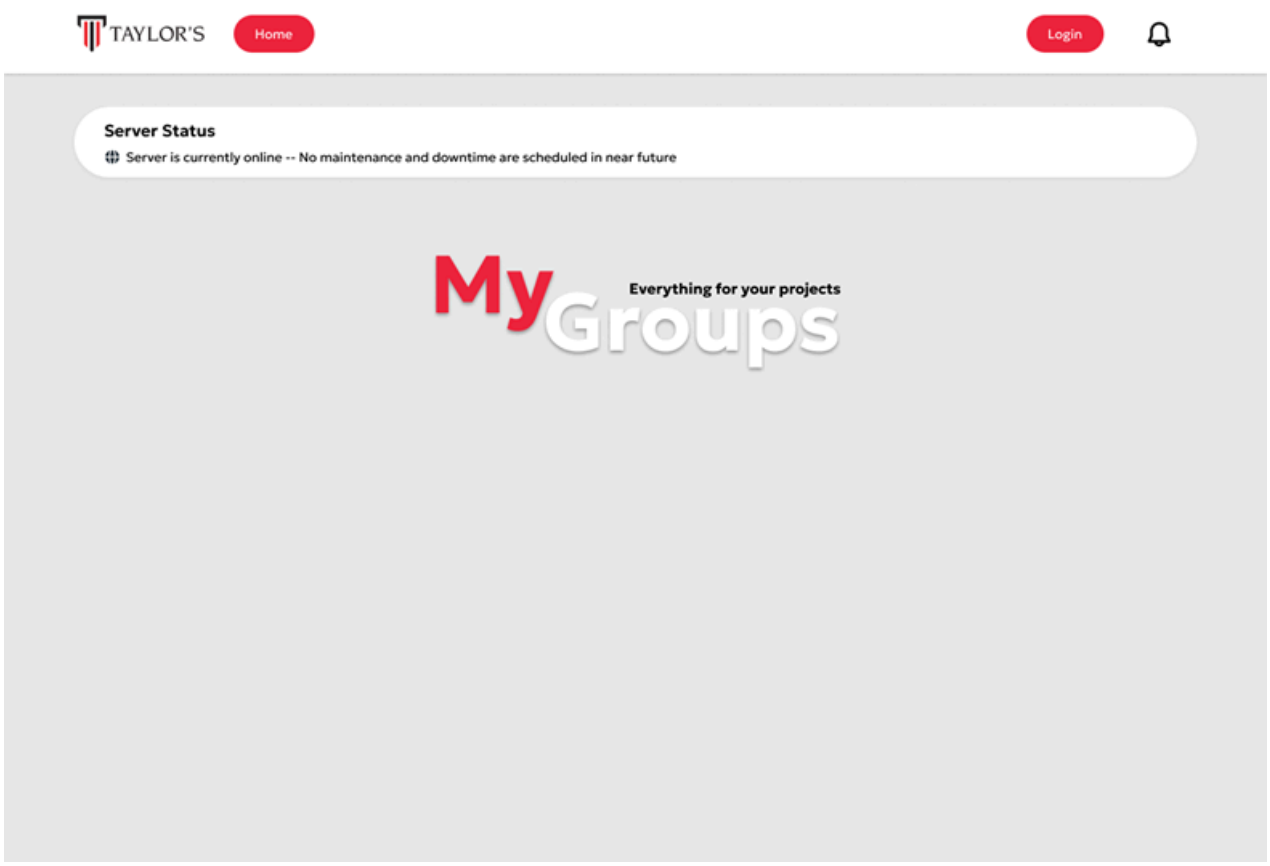
3.2 User Documentation



Navigation Menu

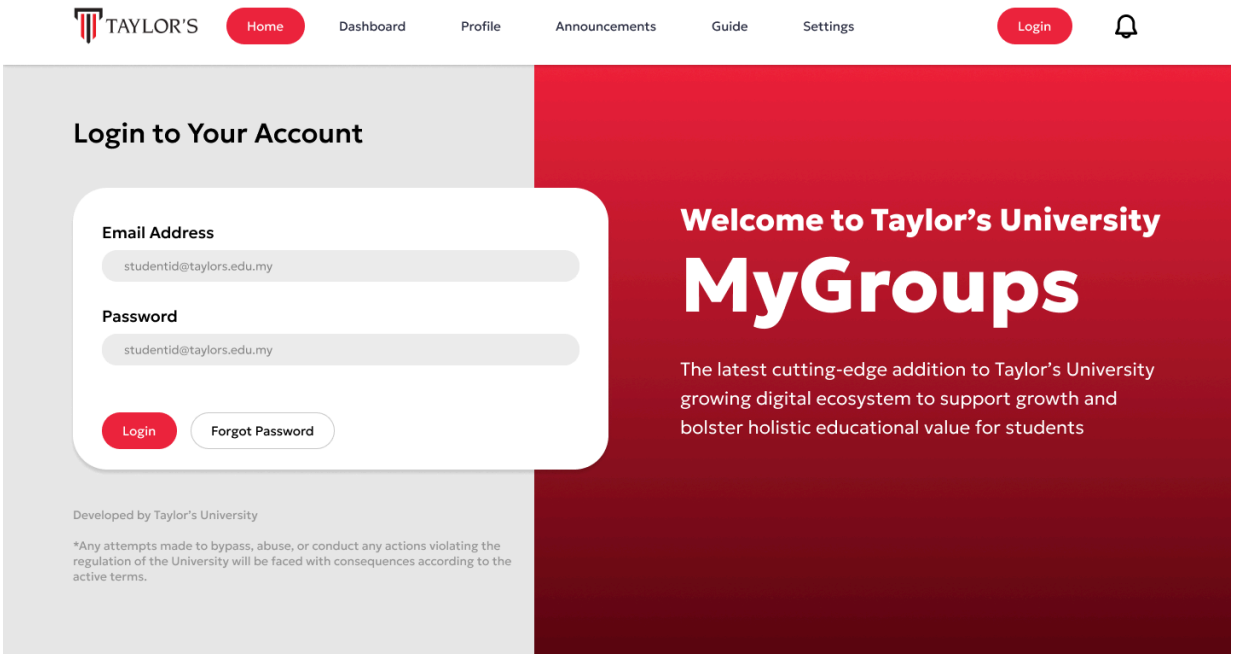
Navigation Menu occupies the upper part of the interface and offers access to all primary pages which are Home, Dashboard, Profile, Announcements, Guide and Settings. A red marker shows the active page, and the bell icon displays notifications of a user. Presence of the user is shown by the change of the button of log in to log out.

3.2.1 General



General Main Page

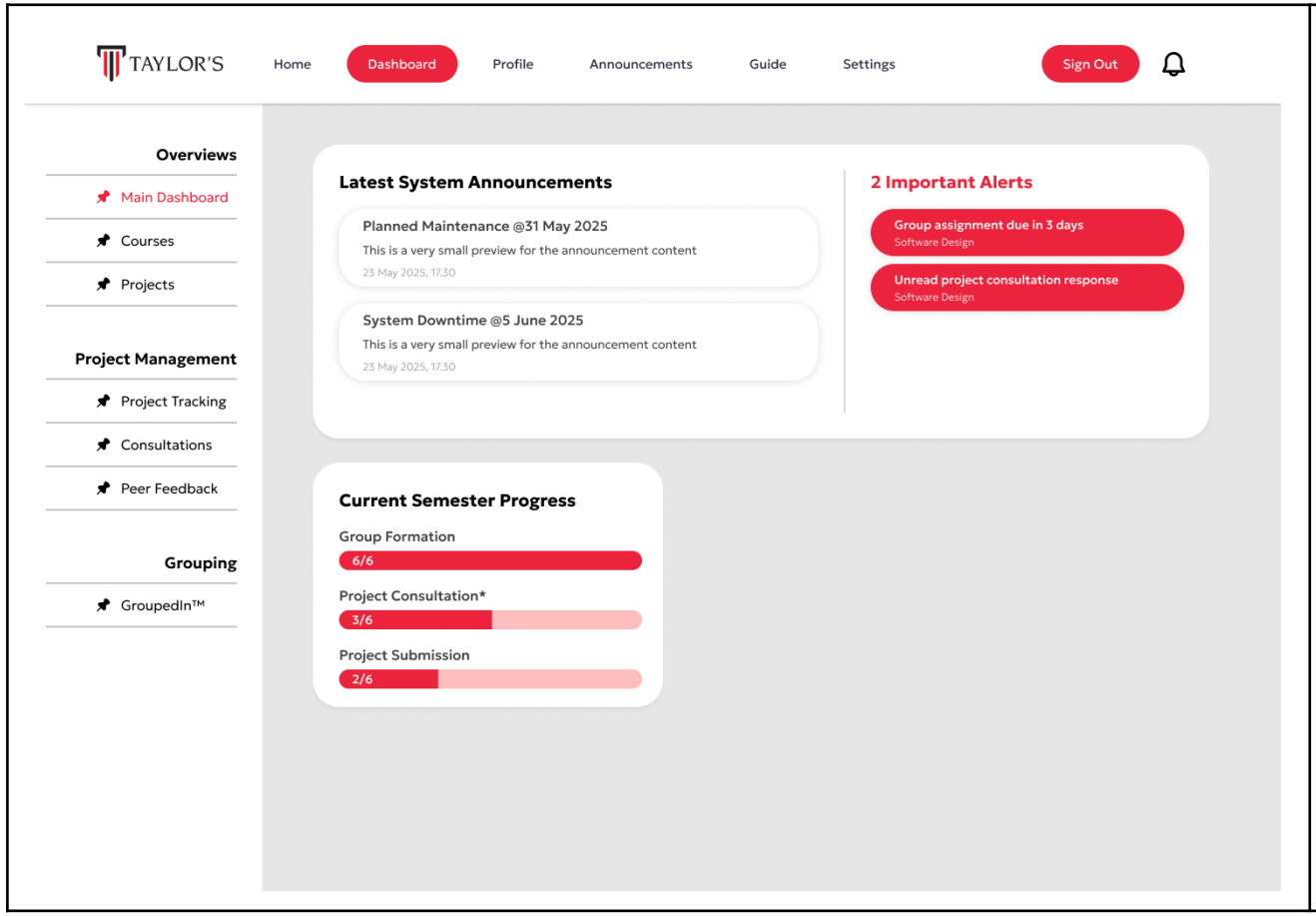
The General Main Page consists of a landing page showing the server status, and a consistent Navbar which will be shown on each page, showing features/page selections depending on the roles



General Login Page

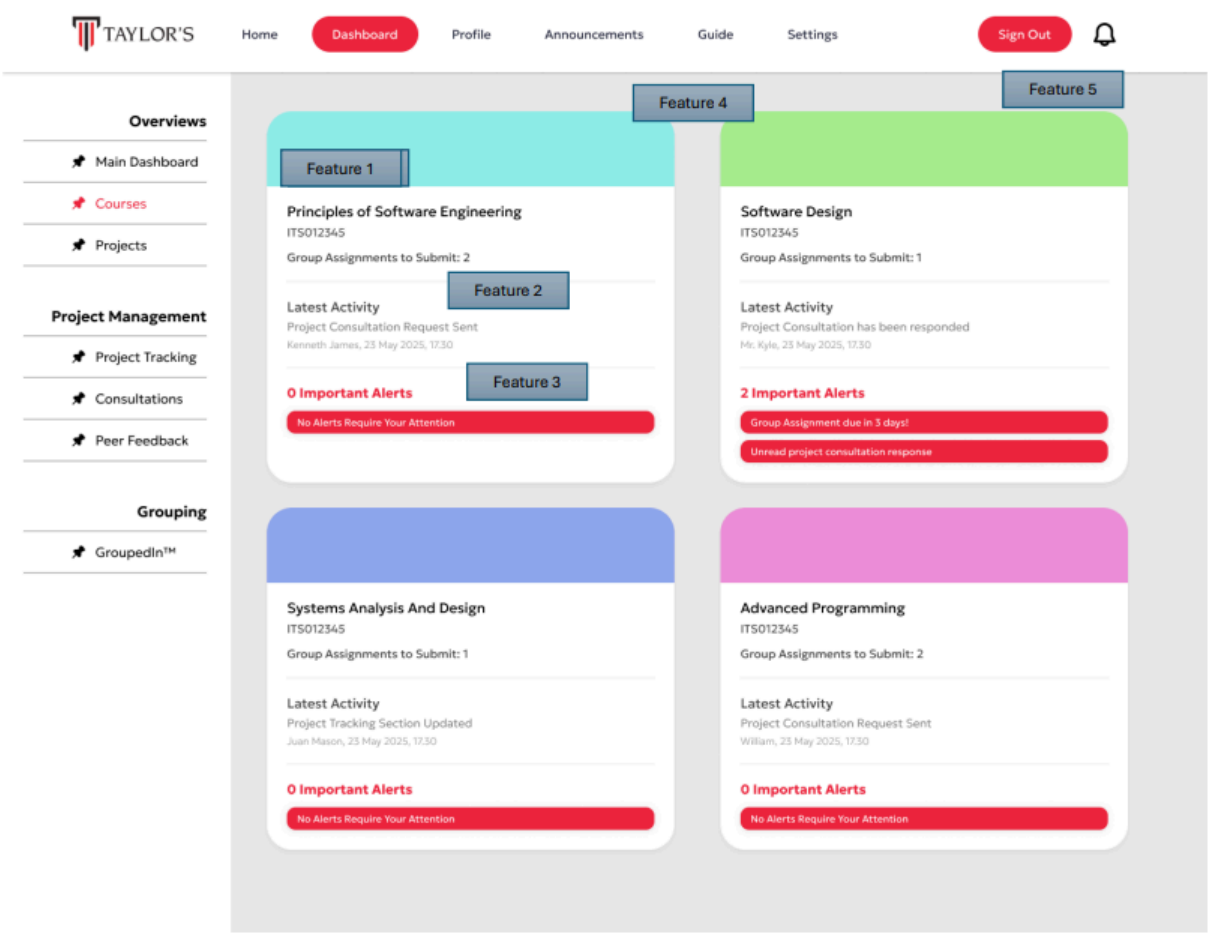
The General Login Page will be the main page where all users will do their login activity with their credentials.

3.2.2 Student



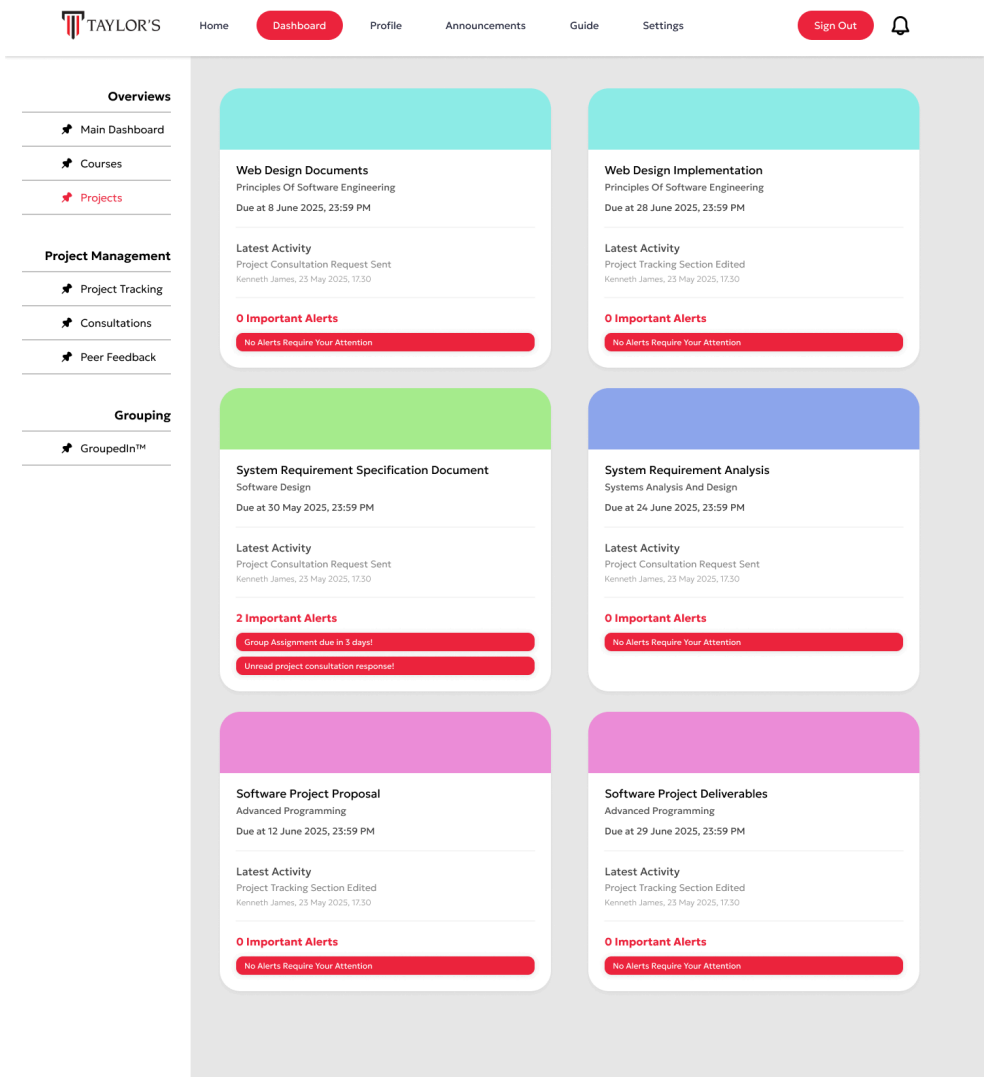
Student Main Dashboard

The Student Main Dashboard interface is designed to show students the latest System Announcements as well as their Group Assignment Progress visually.



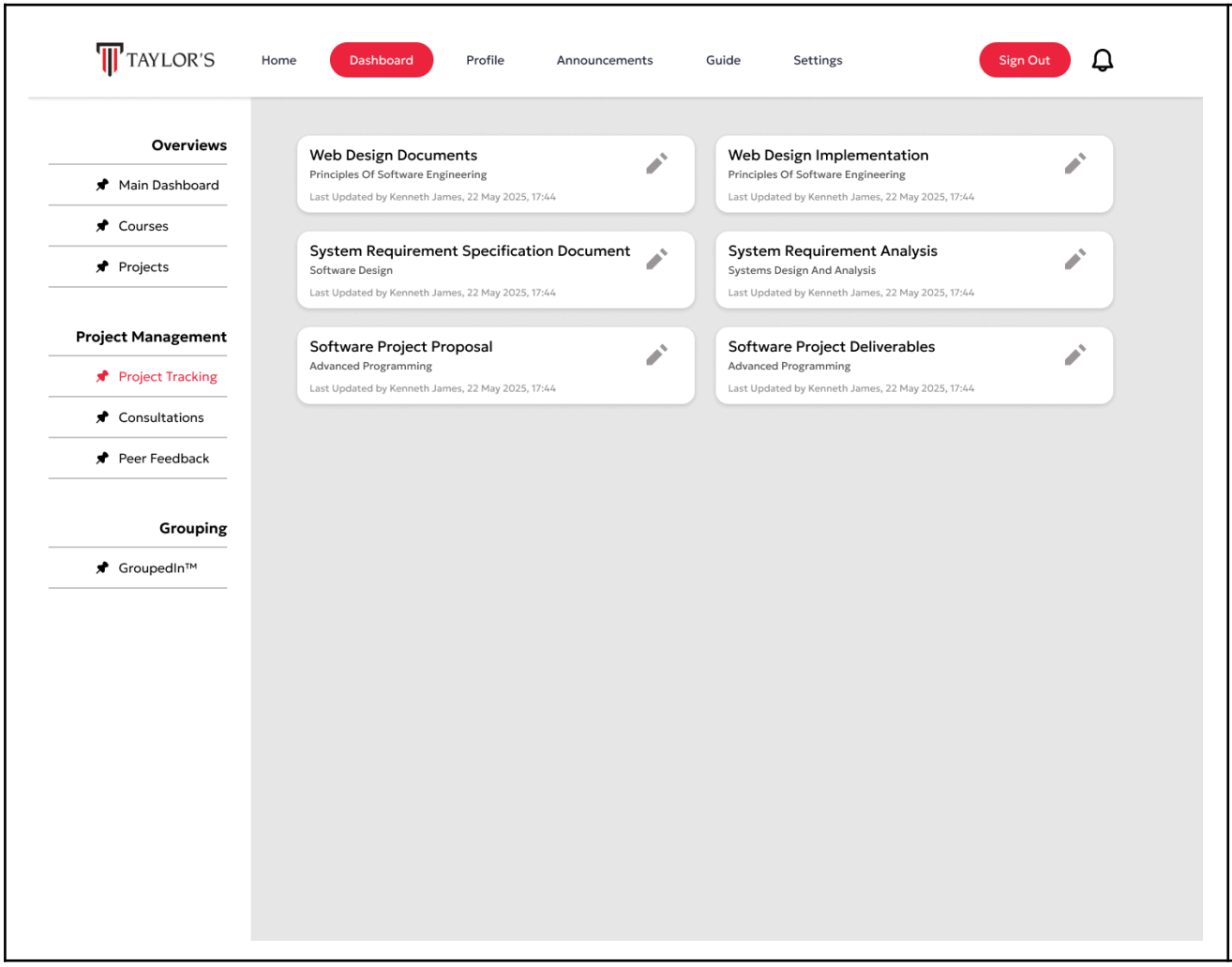
Student Course Dashboard

The Student Course Dashboard interface is designed to show students the overview of their Courses



Student Project Dashboard

The Student Project Dashboard interface is designed to show students the overview of their Projects

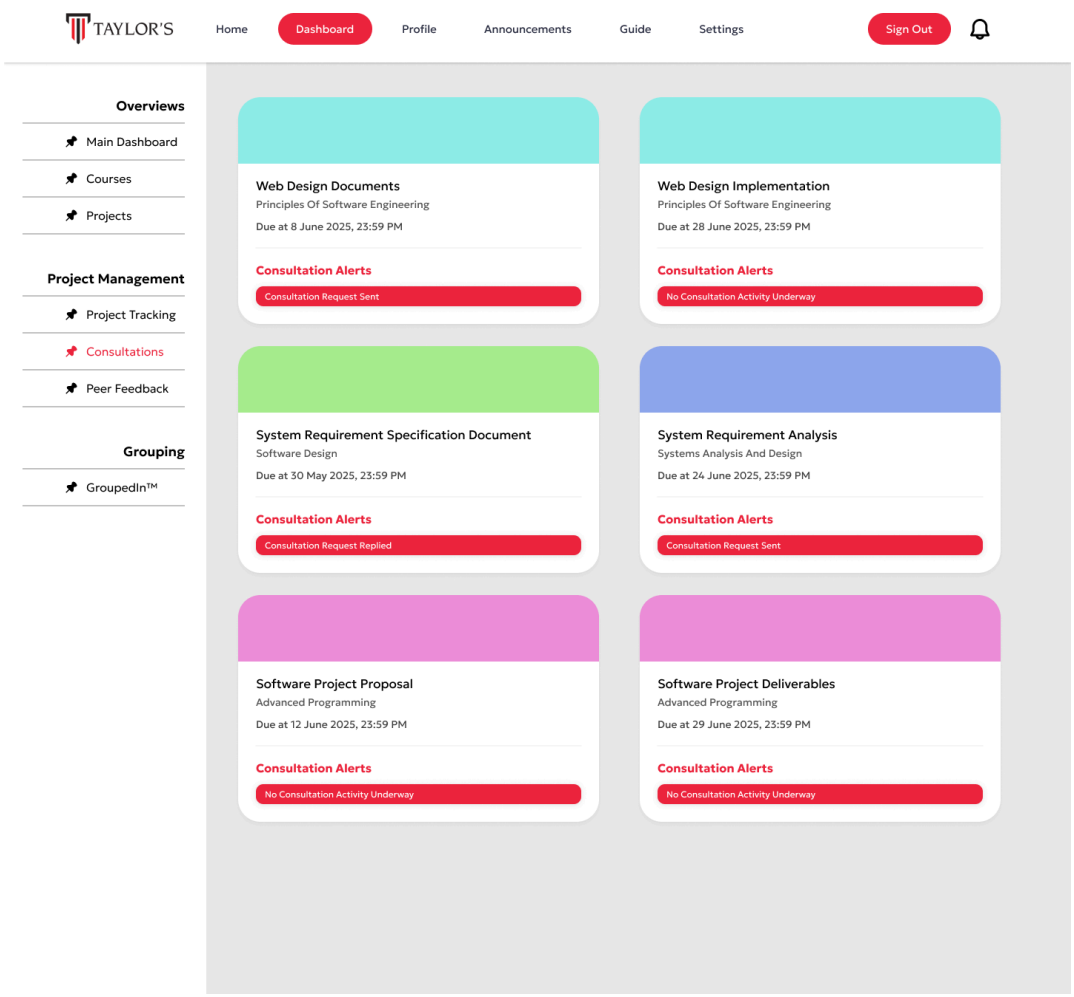


Student Project Tracking

The Student Project Tracking interface is designed to show students the details of their projects, along with accessing various project management tools that are provided by the system

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on one of the cards, it will open a drop-down consisting of to-do lists, and editable fields to assign group members to a respective task

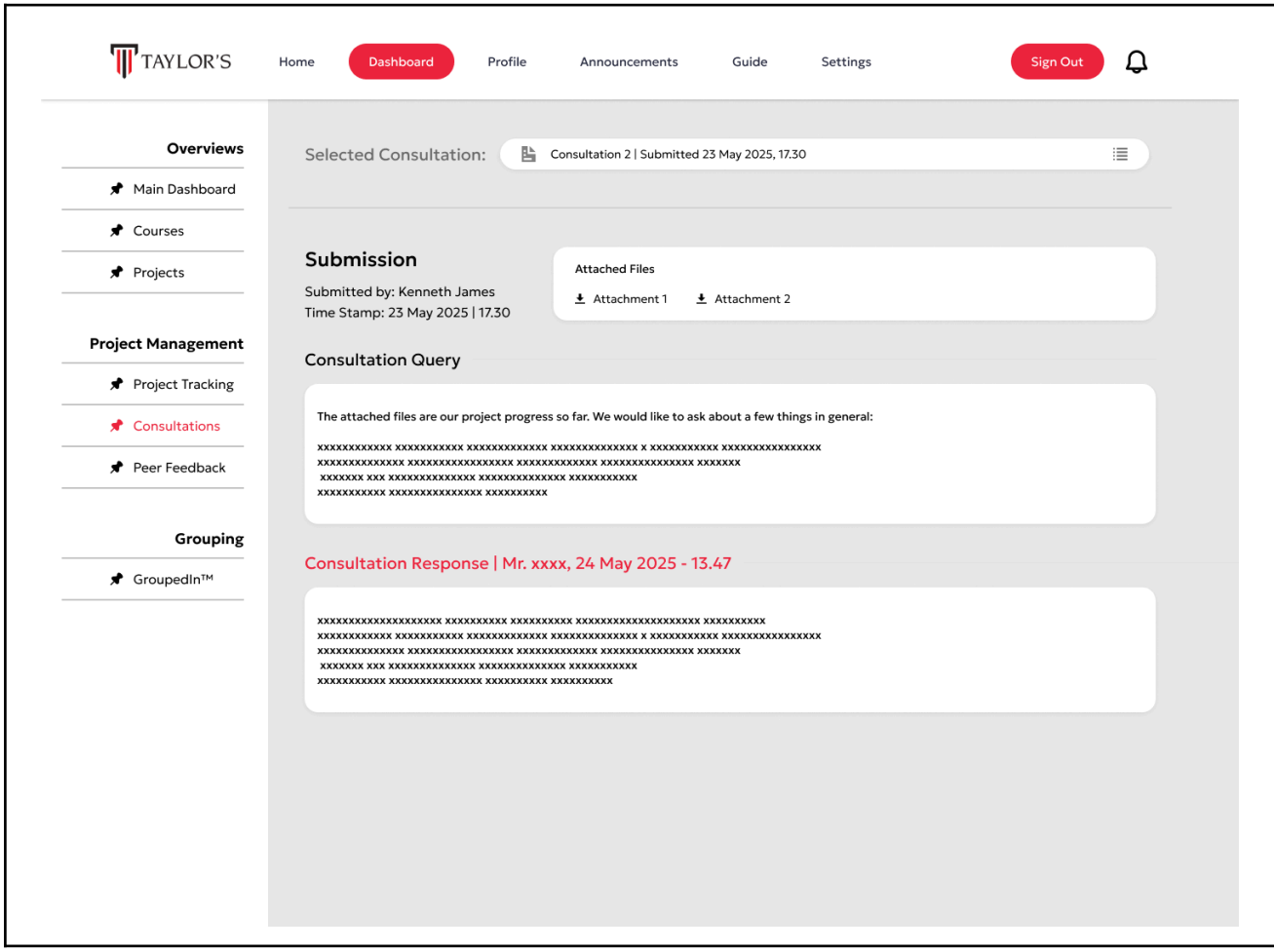


Student Consultation Main Page

The Student Consultation Main Page interface is designed to show students each of their projects and some alerts related to their consultation

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on one of the cards, it will open the Student Consultation Detail Page

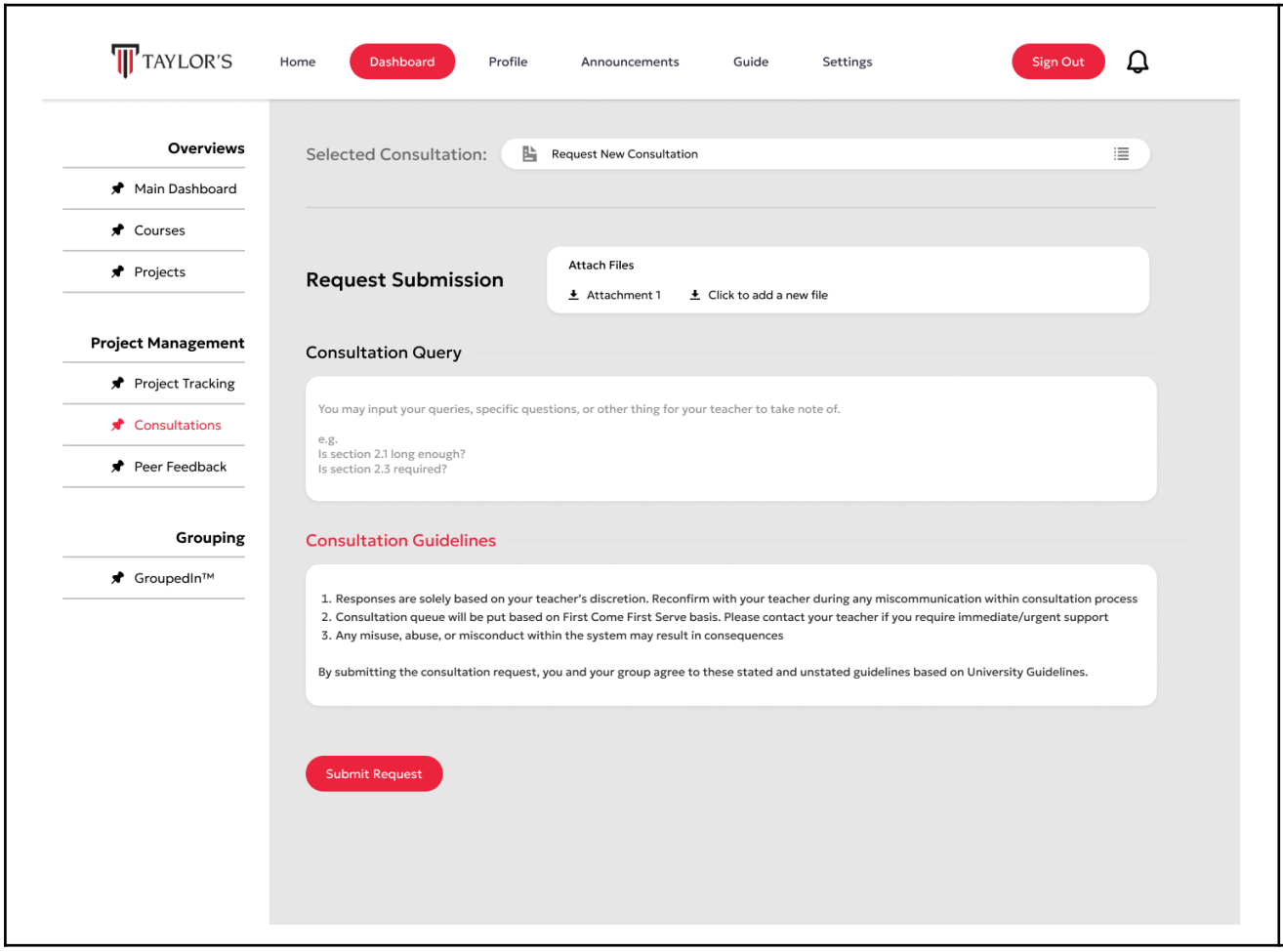


Student Consultation Detail Page

The Student Consultation Detail Page interface is designed to show students their consultation details

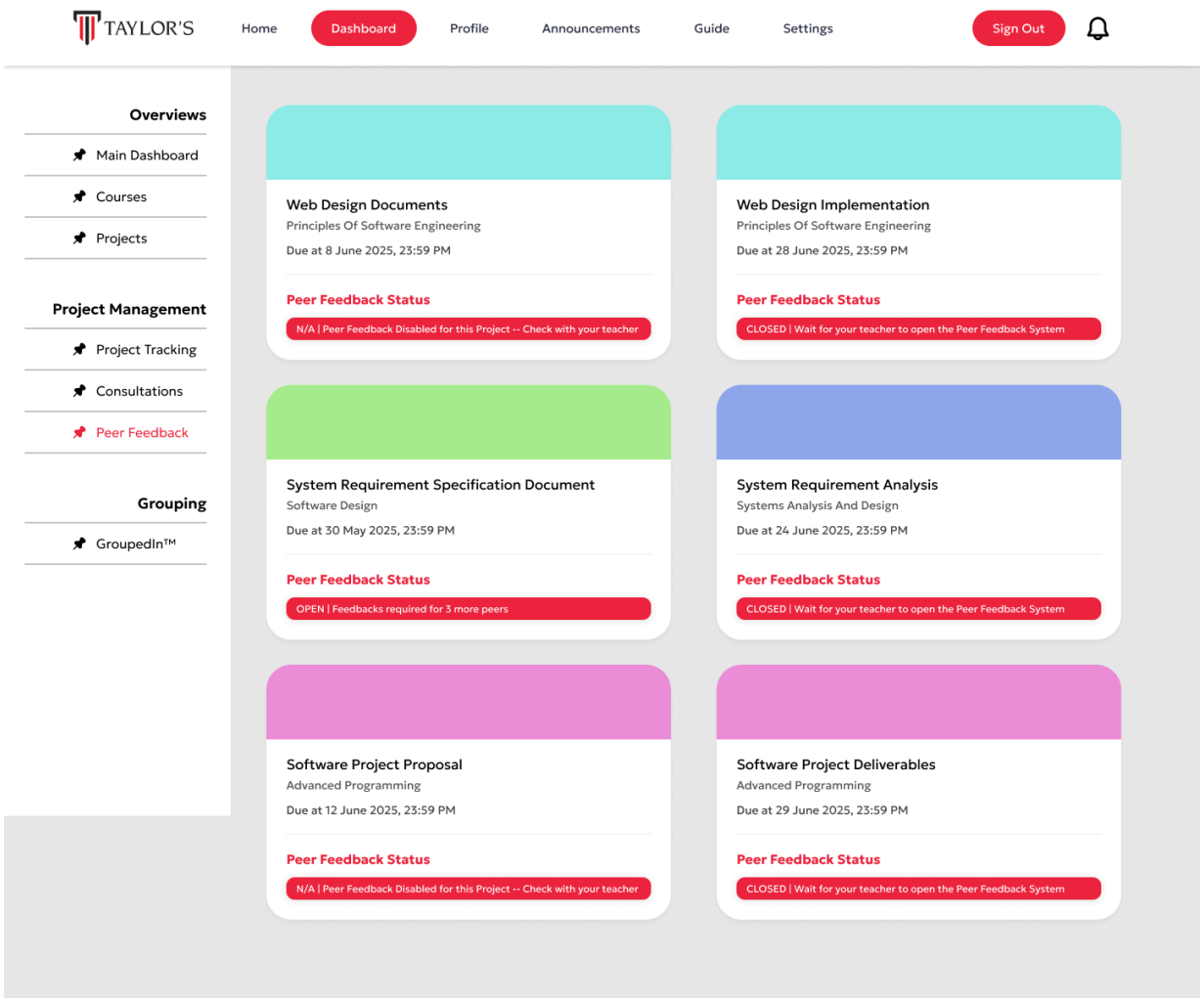
Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on Selected Consultation, a drop down will appear for them to select their previous consultations or make a new one. Making a new one will open Student Consultation Request Page



Student Consultation Request Page

The Student Consultation Request Page interface is designed to provide students access to send a new consultation request by attaching necessary files and entering required details

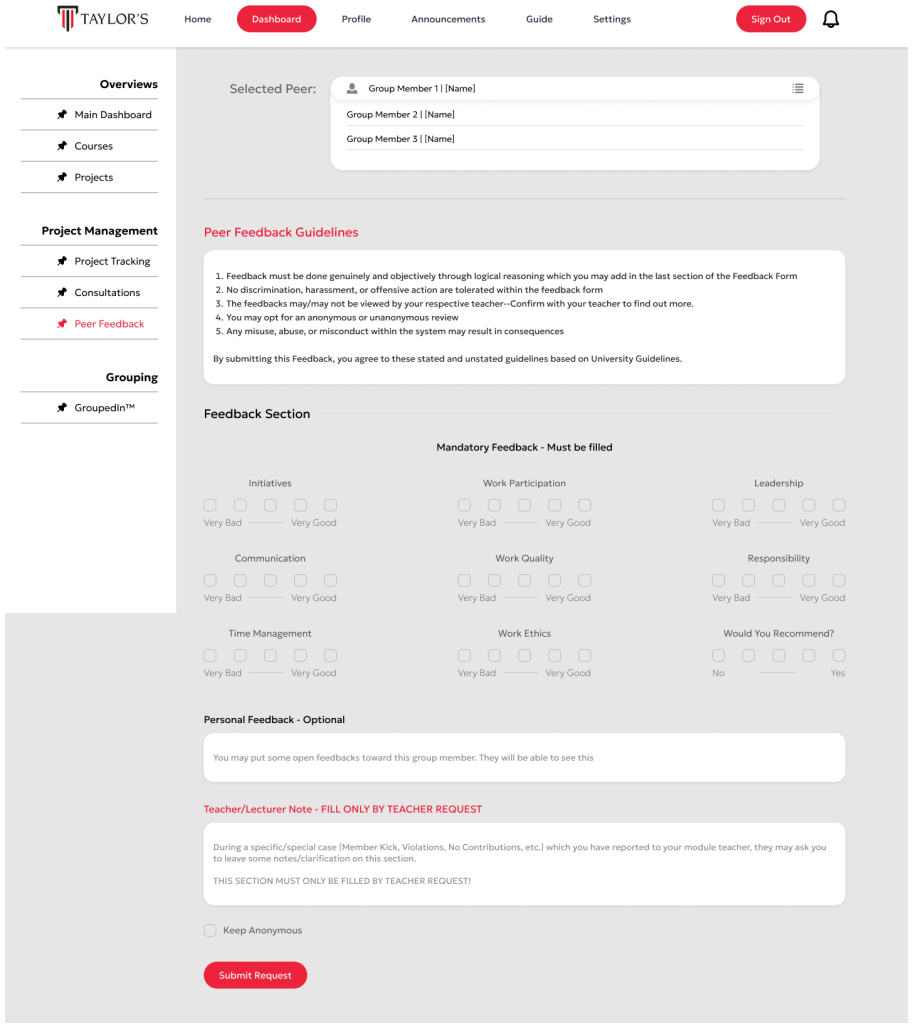


Student Peer Feedback Main Page

The Student Peer Feedback Main Page interface is designed to show students each of their projects and some alerts related to their Peer Feedbacks.

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on one of the cards, it will open the Student Peer Feedback Detail Page



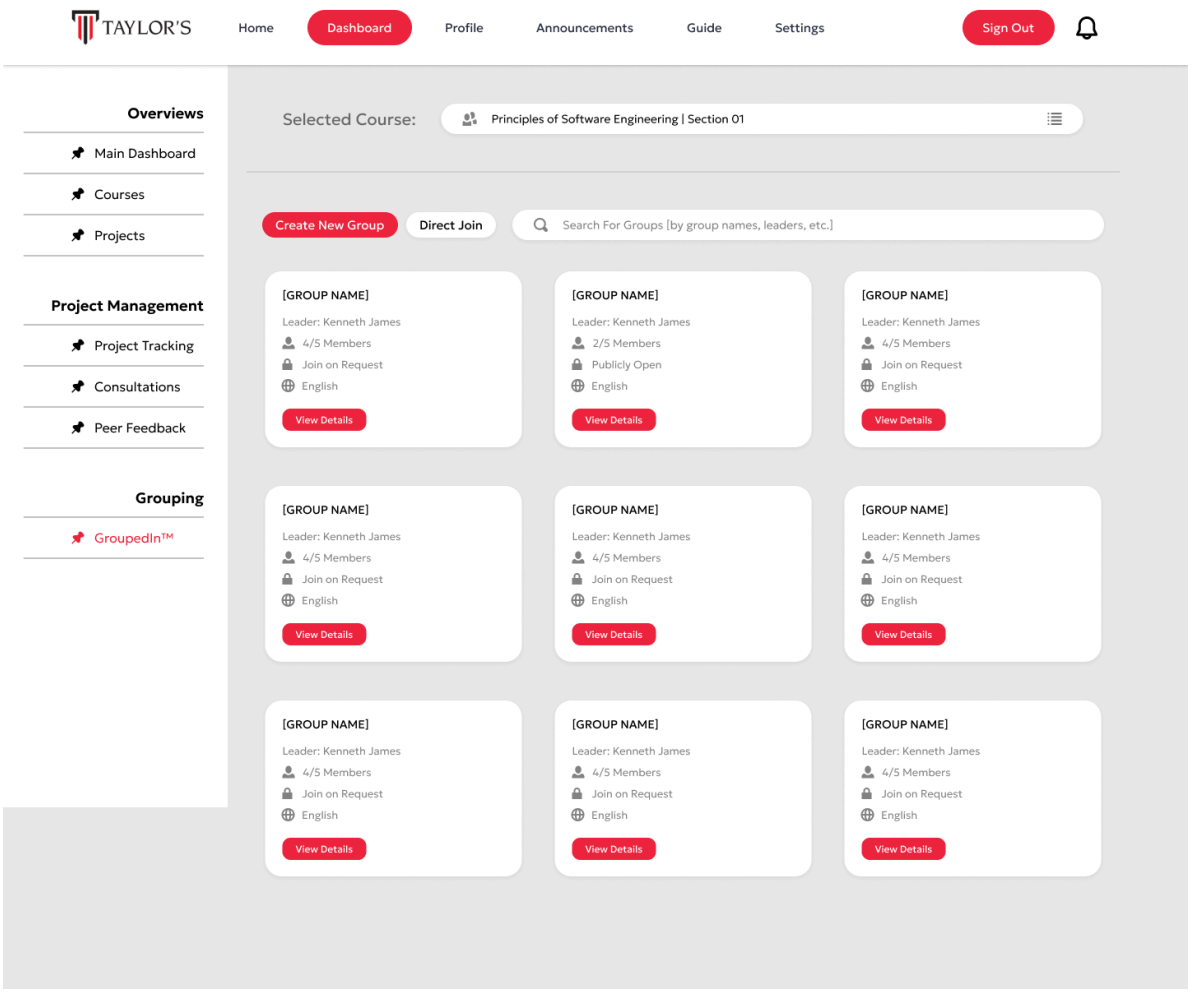
Student Peer Feedback Detail Page

The Student Peer Feedback Detail Page interface is designed to provide students an integrated Peer Feedback System.

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking Selected Peer, a drop down panel will appear consisting of member lists they need to give feedback.

In the Feedback Section, a "scale button" system has been implemented. In the last section, users can click the checkbox to keep the feedback anonymous.



Student GroupedIn™ Page

The Student GroupedIn Page interface is designed to show students lists of group opened to public for them to be able to join

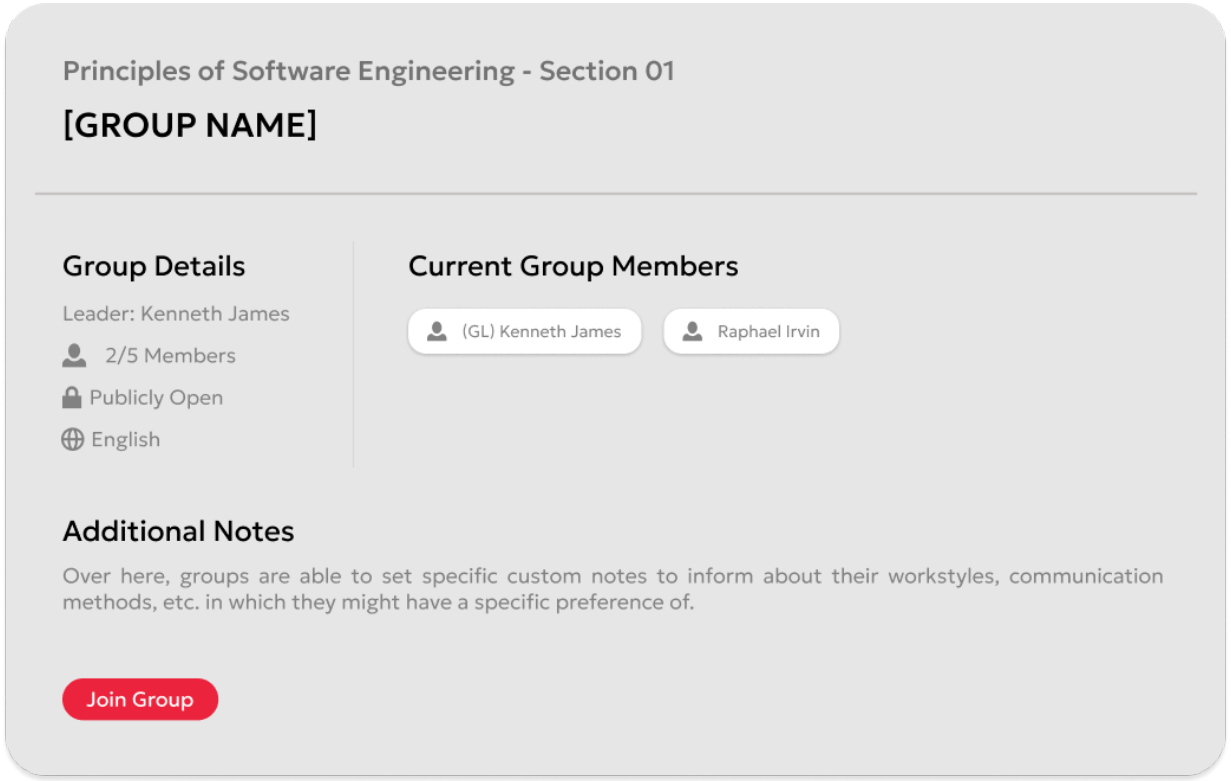
Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on Selected Course, it will open a drop down panel of lists of module

Upon clicking on View Details, it will open the Group Detail Overlay

Upon clicking on Create New Group, it will open the Student Group Creation Page

Upon clicking on Direct Join, it will show the Direct Join Overlay

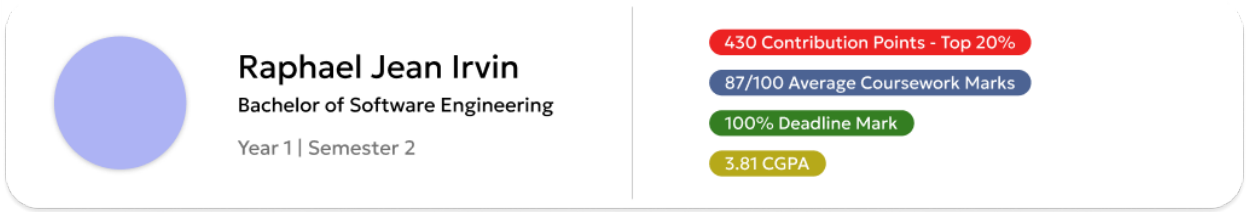


Group Detail Overlay

The Group Detail Overlay interface will be shown upon a user clicking View Details within the Student GroupedIn™ Page

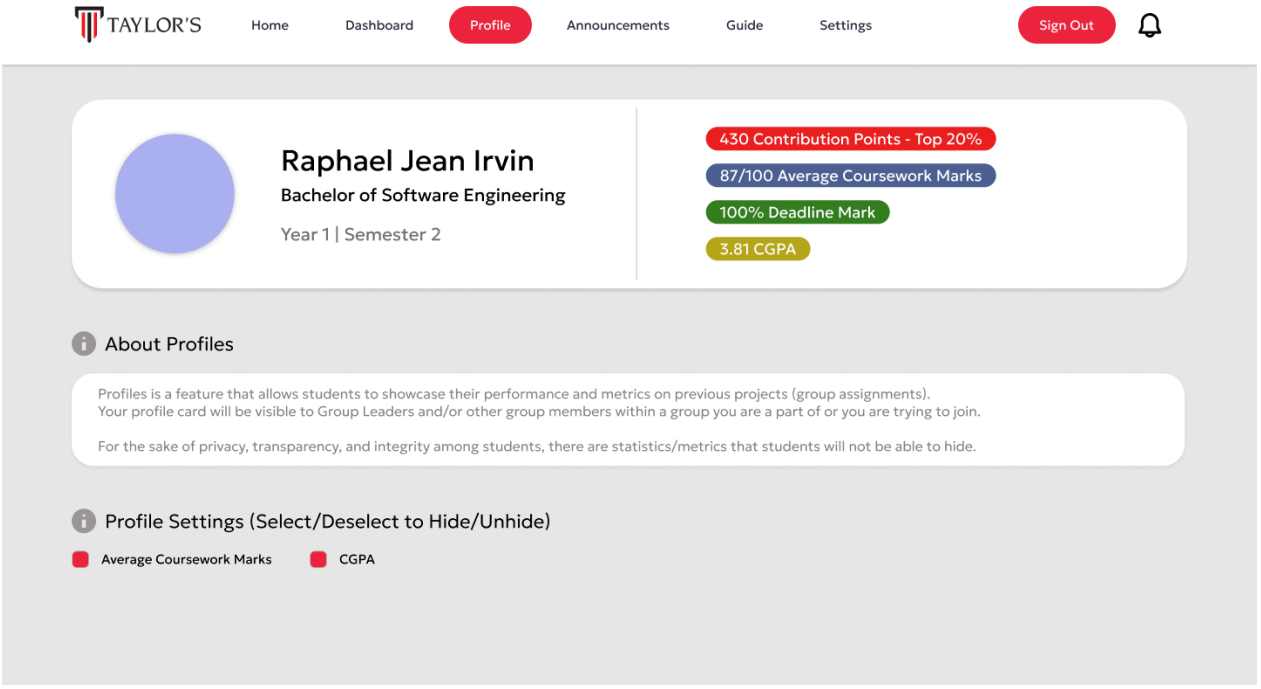
Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on a Profile Card/Button, it will open the Profile Card Overlay



Profile Card Overlay

The Profile Card Overlay interface will be shown upon a user clicking a student profile in Group Detail Overlay according to the profile settings they set in the Student Profile Page

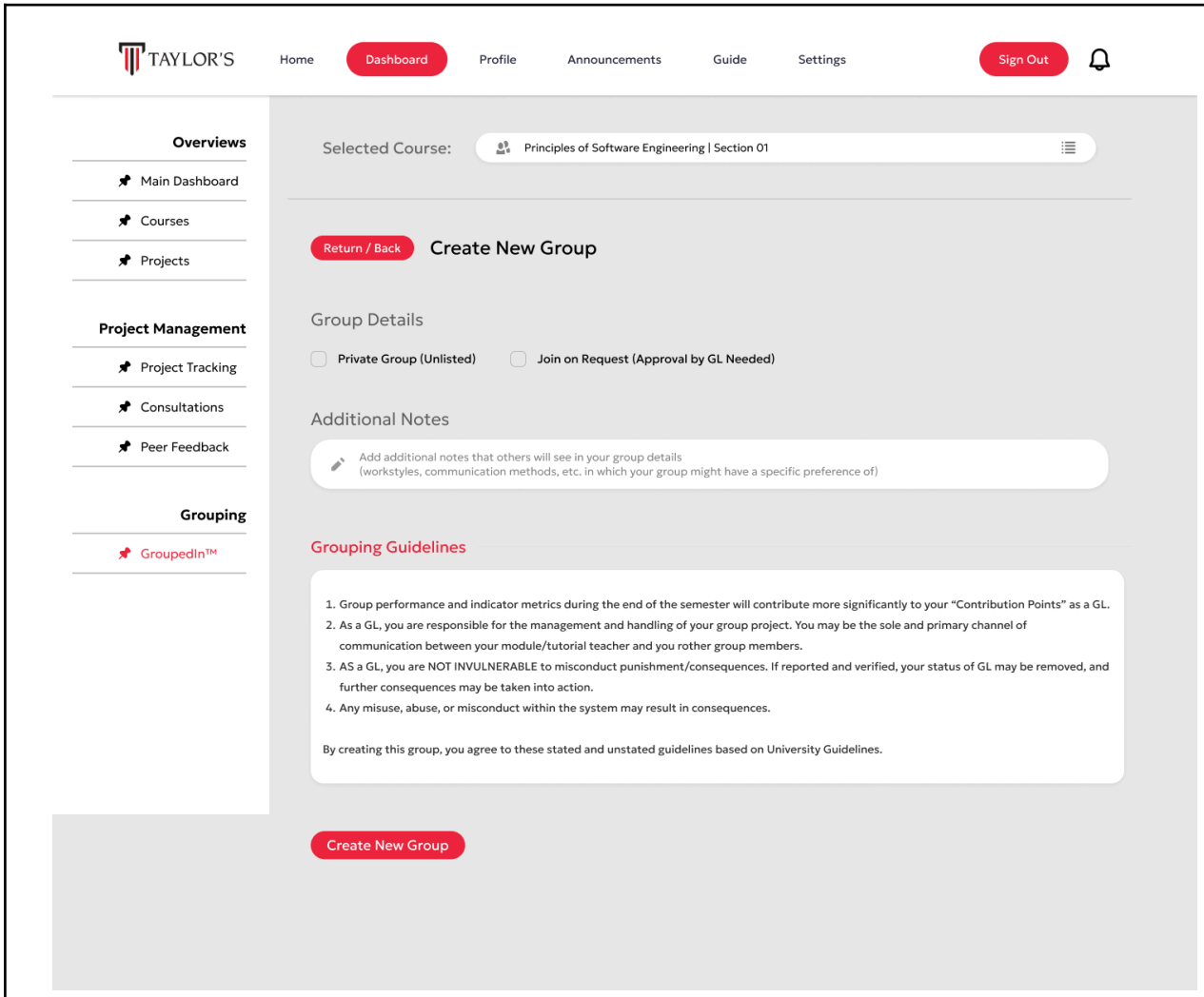


Student Profile Page

The Student Profile Page interface is designed to show them visualization of their Profile Card

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on the Profile Settings checkboxes, their options will be reflected on the profile card

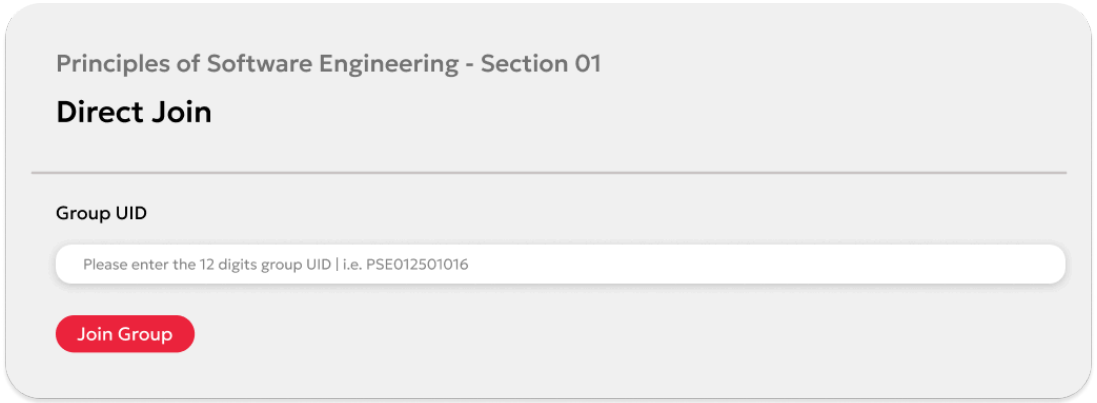


Student Group Creation Page

The Student Group Creation Page Interface is designed to give students access towards creating their own groups with respective details

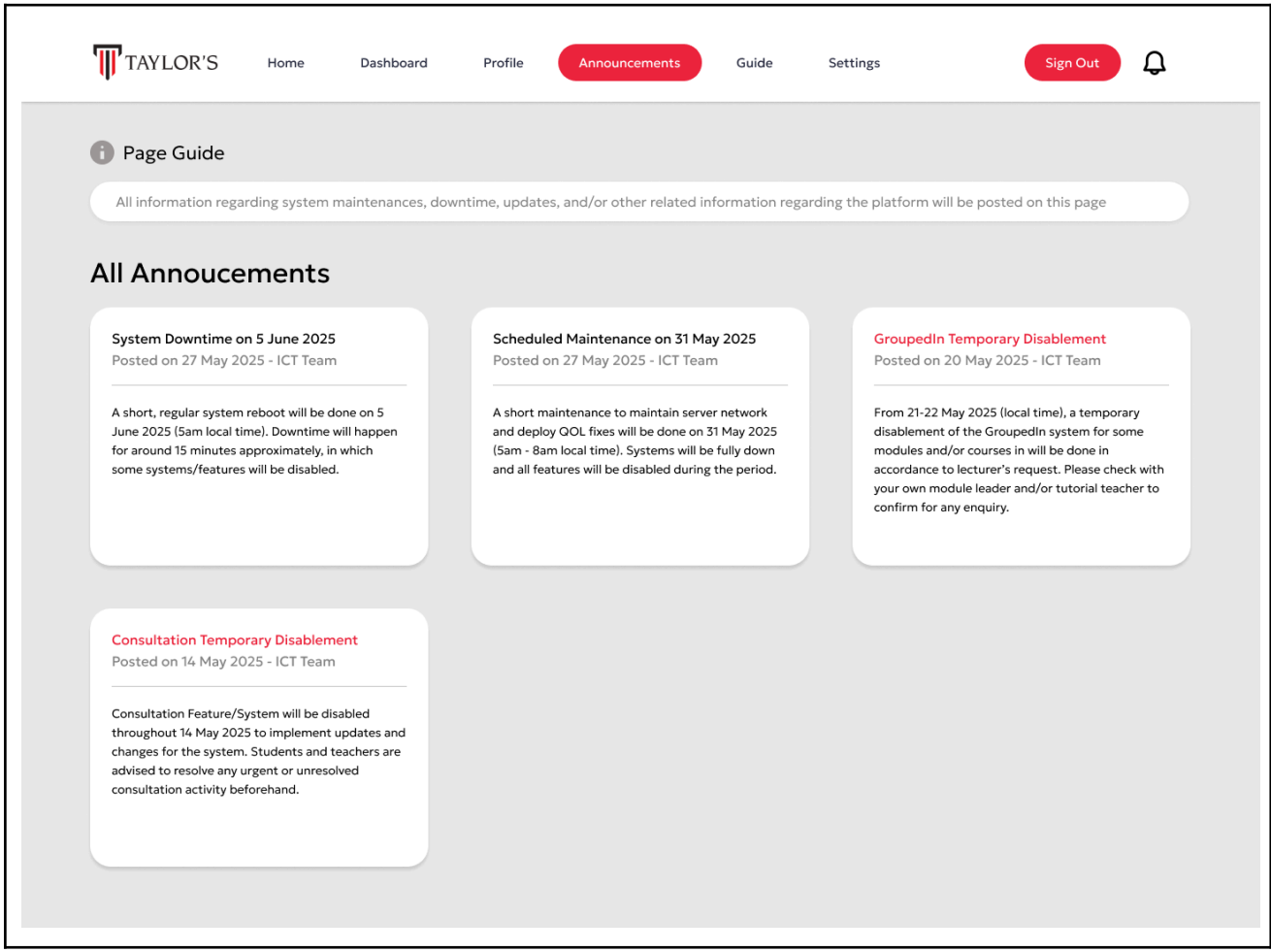
Functionality:
(Accessible from prototype–Appendix D)

Checkboxes in the Group Details section can be enabled/disabled for students to choose whether they want to make their group public, restricted, or even private



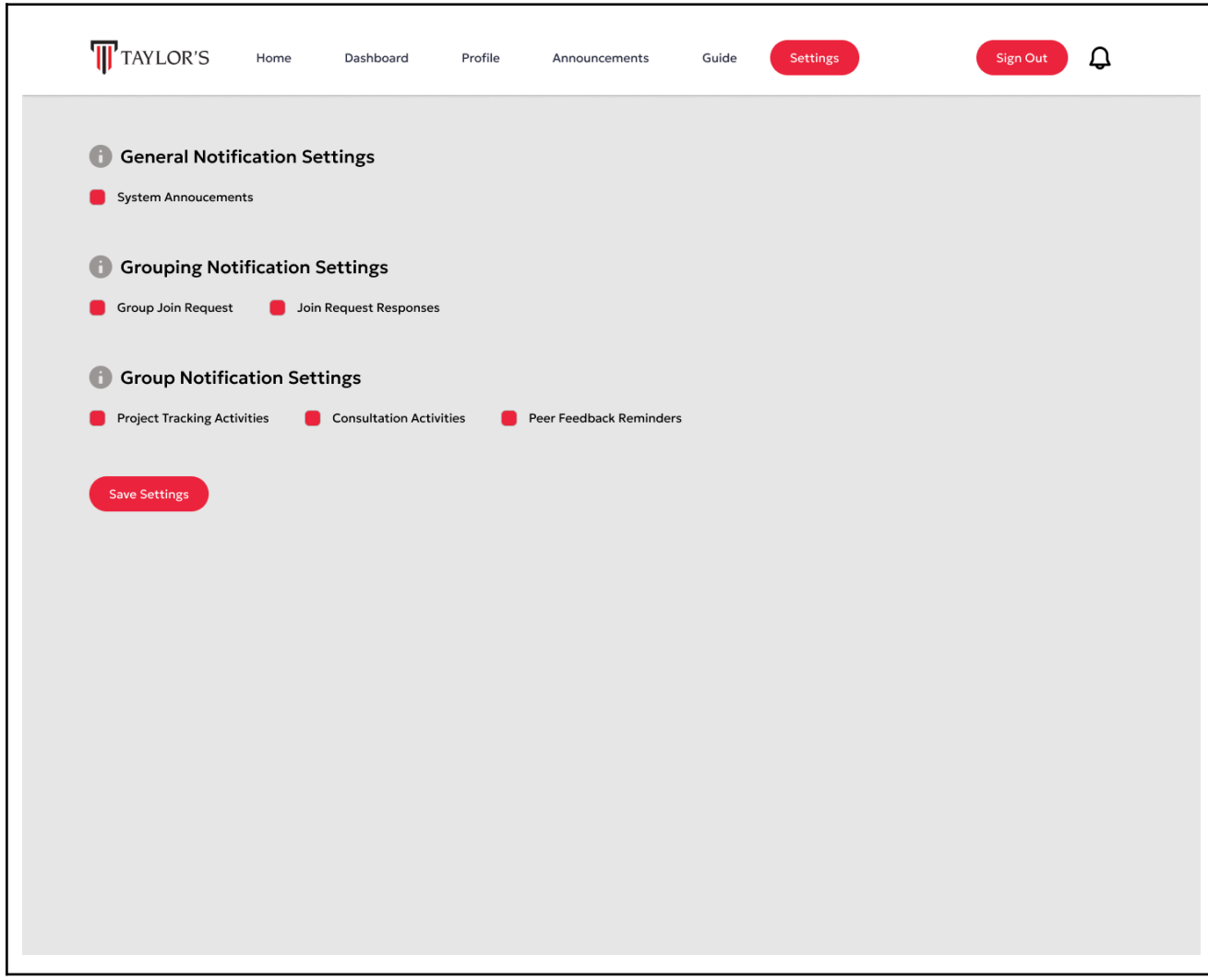
Direct Join Overlay

The Direct Join Overlay interface is shown when a person chooses Direct Join as a method of joining a group.



Student Announcement Page Page

The Student Announcement Page interface is designed to show latest System Announcements



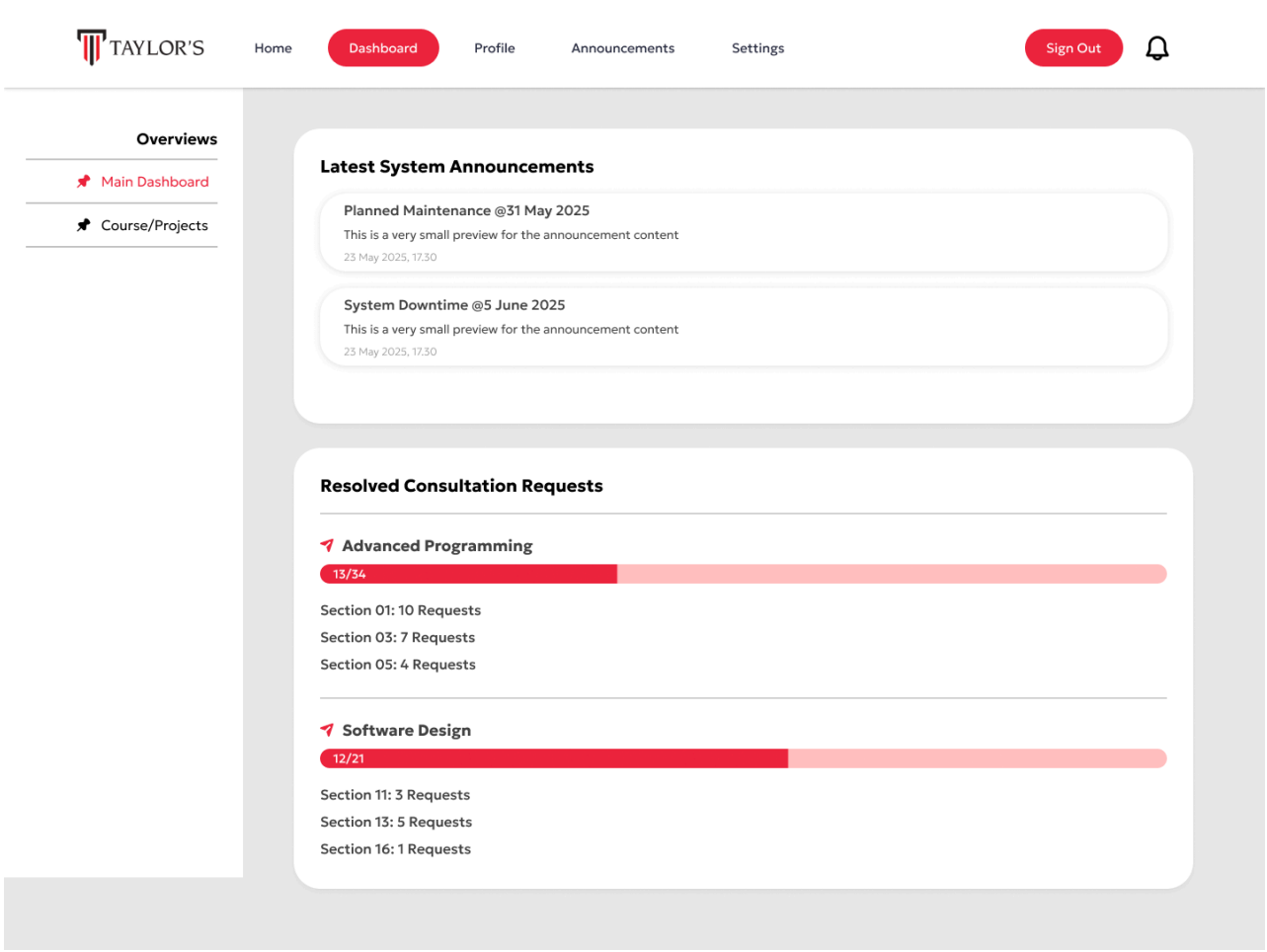
Student Settings Page

The Student Setting Page interface is designed to show Students of settings they could choose, in particular of notifications.

Functionality:
(Accessible from prototype–Appendix D)

The checkboxes will are clickable to activate/deactivate the settings

3.2.3 Lecturer

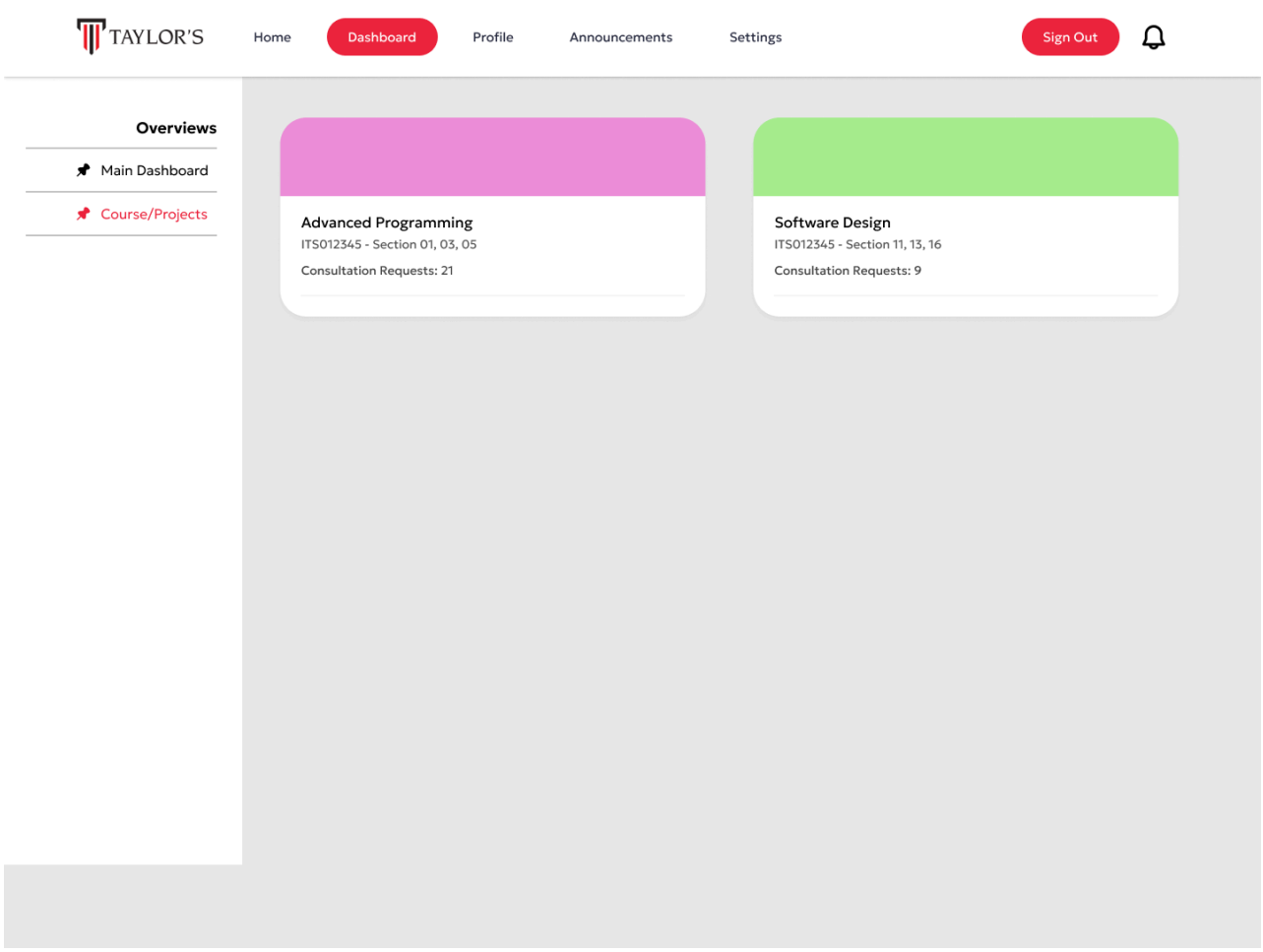


Lecturer Main Dashboard Page

The Lecturer Main Dashboard Page interface is designed to show Lecturers latest System Announcements and their progress of resolving consultation requests

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on the Module Name, they'll be redirected to the Lecturer Submission and Consultation Detail Page

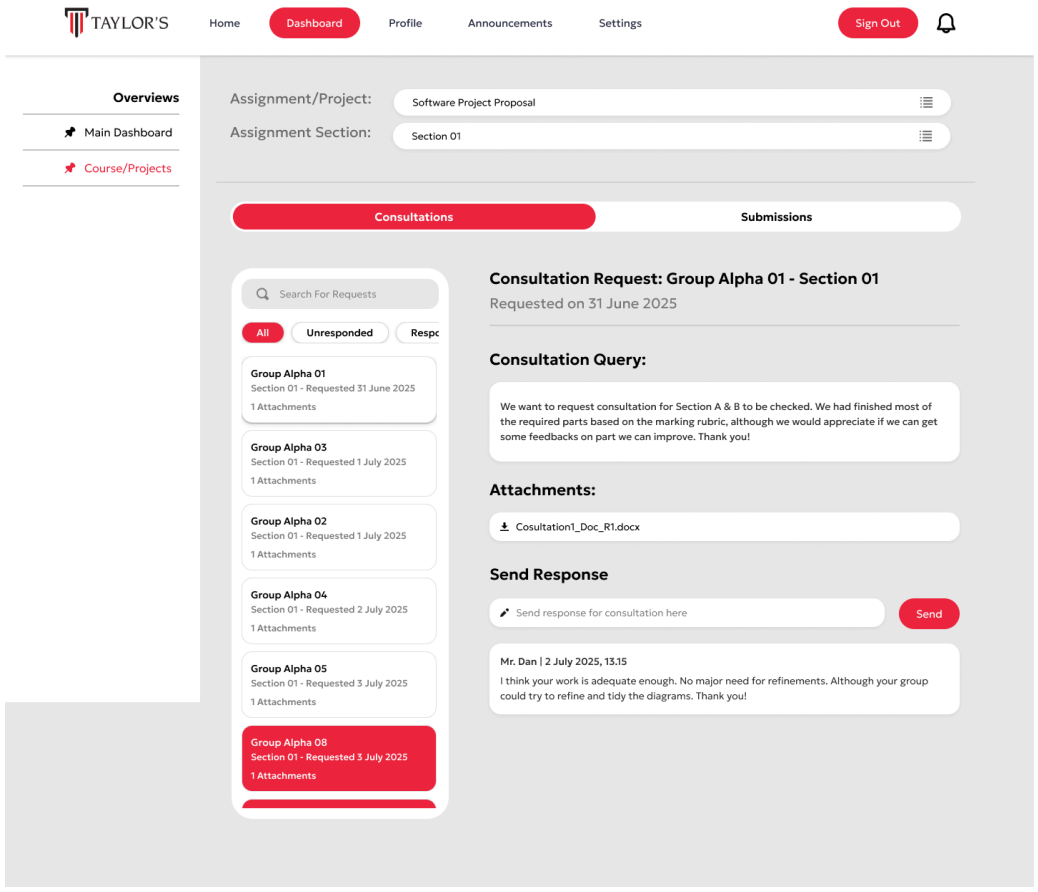


Lecturer Dashboard Course Page

The Lecturer Dashboard Course Page interface is designed to show Lecturers overview/informations about the modules they are currently handling

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on the Card, they will be redirected to the Lecturer Submission and Consultation Detail Page



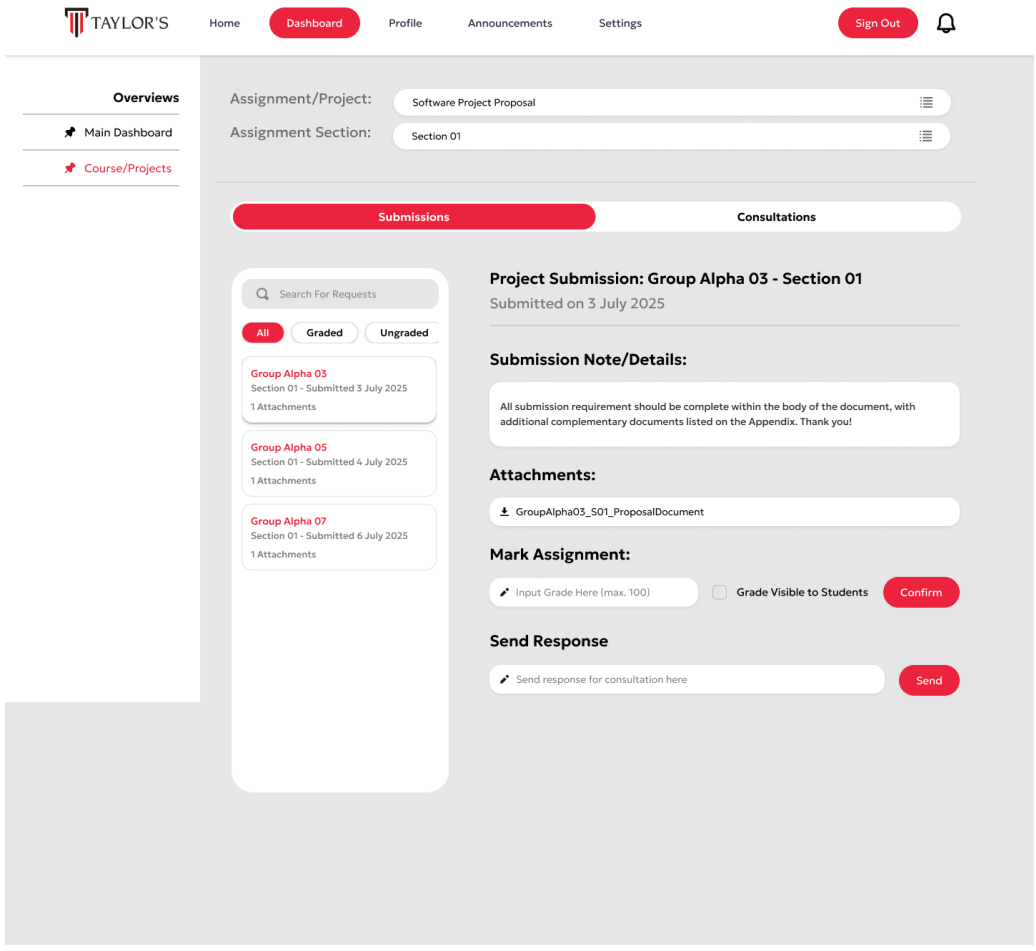
Lecturer Submission & Consultation Detail Page | Consultation Page

The Lecturer Submission & Consultation Detail Page | Submission Page interface is designed to show Lecturers overview/informations all the consultation requests that needs to be responded

Functionality:
(Accessible from prototype–Appendix D)

Upon clicking on Submissions, it will open the Submission part of this page.

Filters can be pressed to sort consultation requests based on whether it has been Responded or not



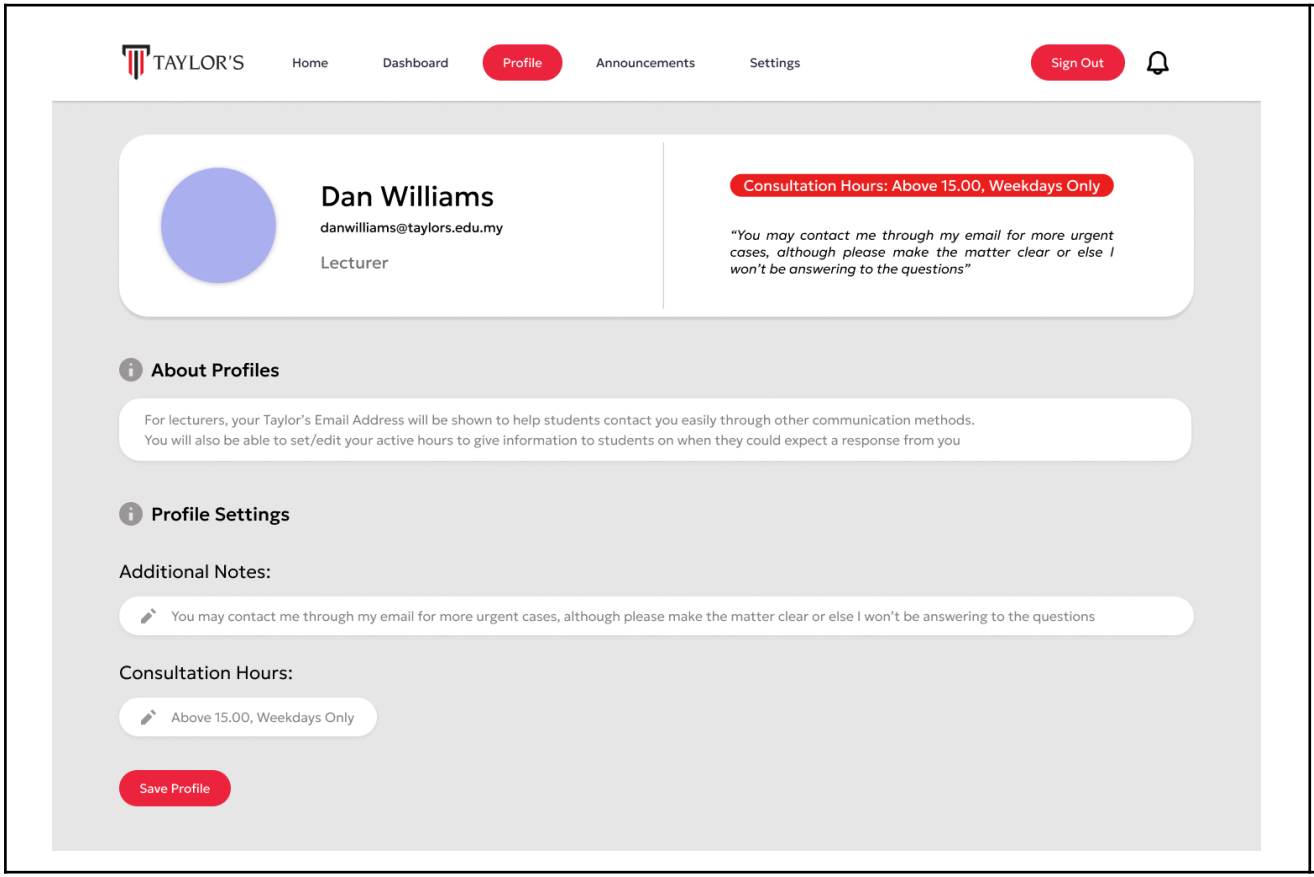
Lecturer Submission & Consultation Detail Page | Submission Page

The Lecturer Submission & Consultation Detail Page | Submission Page interface is designed to show Lecturers overview/informations all the submissions that needs to be checked

Functionality:
(Accessible from prototype–Appendix D)

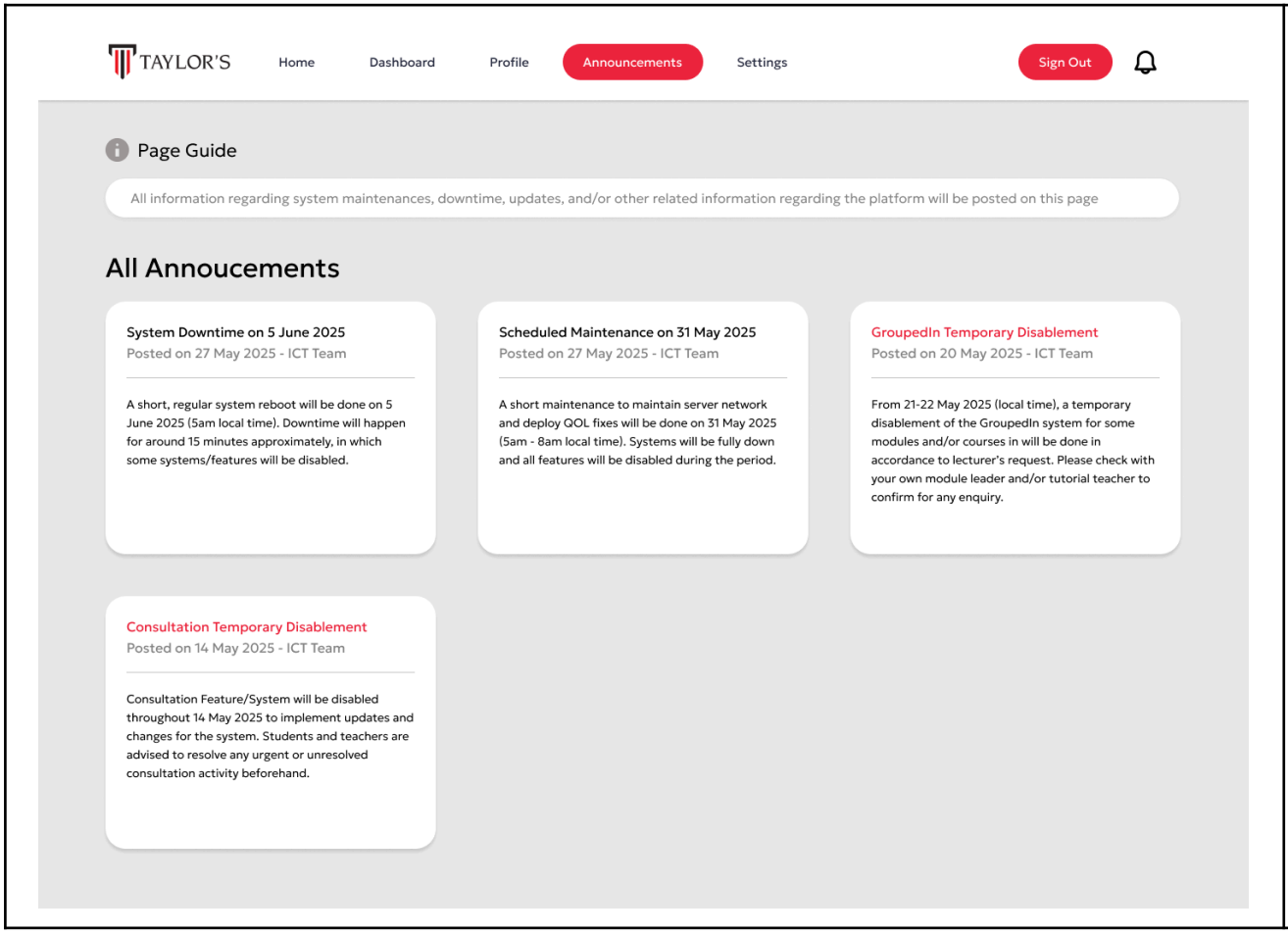
Upon clicking on Consultations, it will open the Consultations part of this page.

Filters can be pressed to sort consultation requests based on whether it has been Graded or not



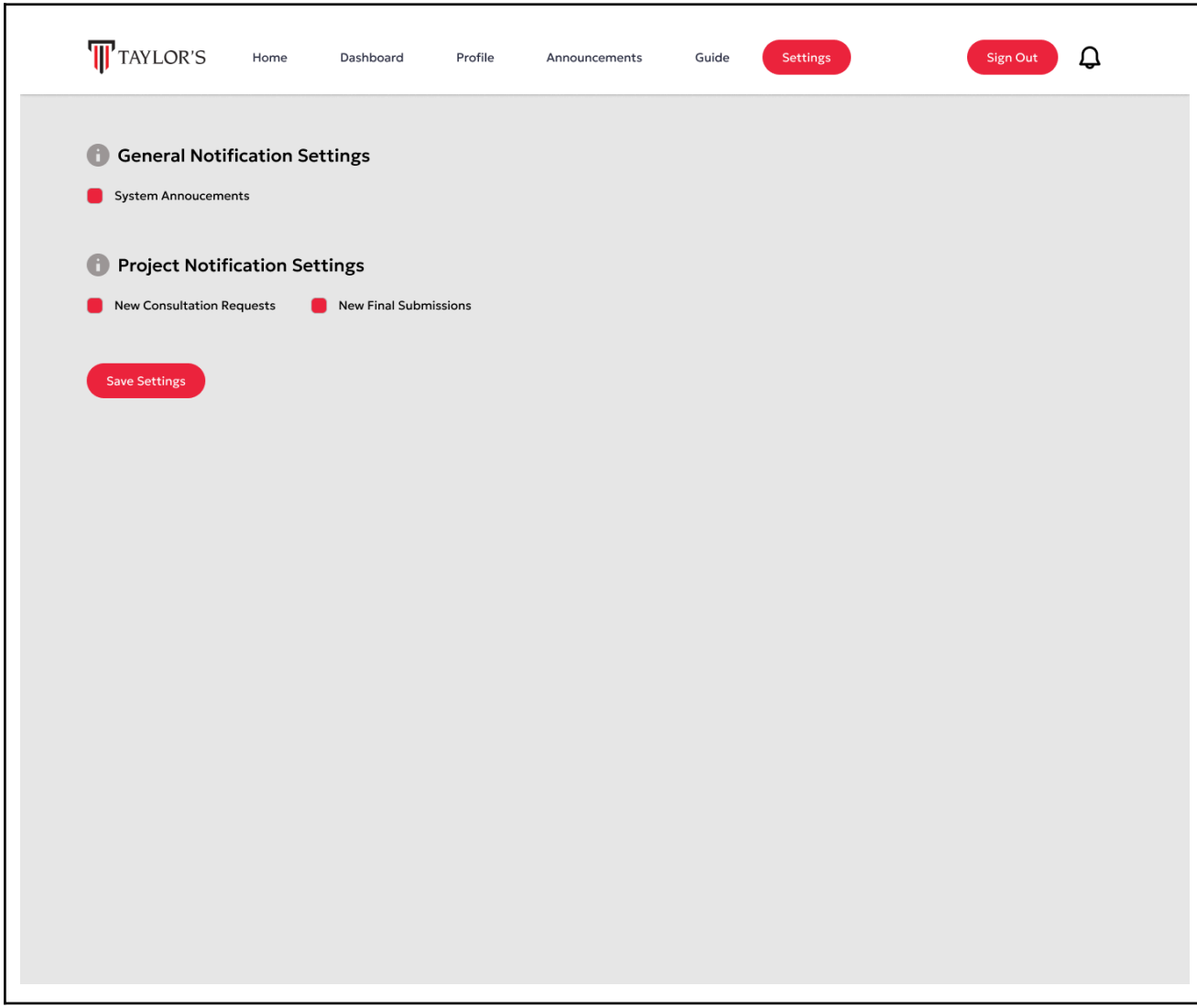
Lecturer Profile Page

The Lecturer Profile Page interface is designed to show them visualization of their Profile Card



Lecturer Announcement Page

The Lecturer Announcement Page interface is designed to show latest System Announcements



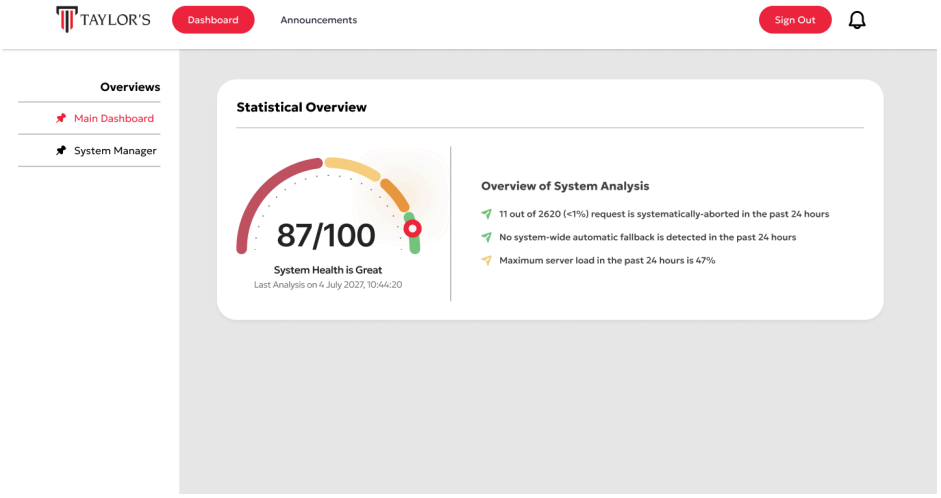
Lecturer Settings Page

The Lecturer Setting Page interface is designed to show Lecturers of settings they could choose, in particular of notifications.

Functionality:
(Accessible from prototype–Appendix D)

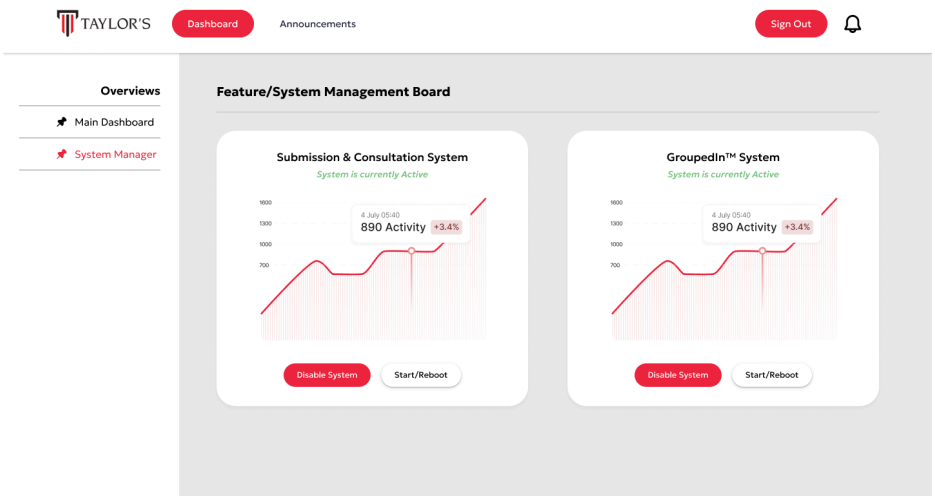
The checkboxes will are clickable to activate/deactivate the settings

3.2.4 System Admin



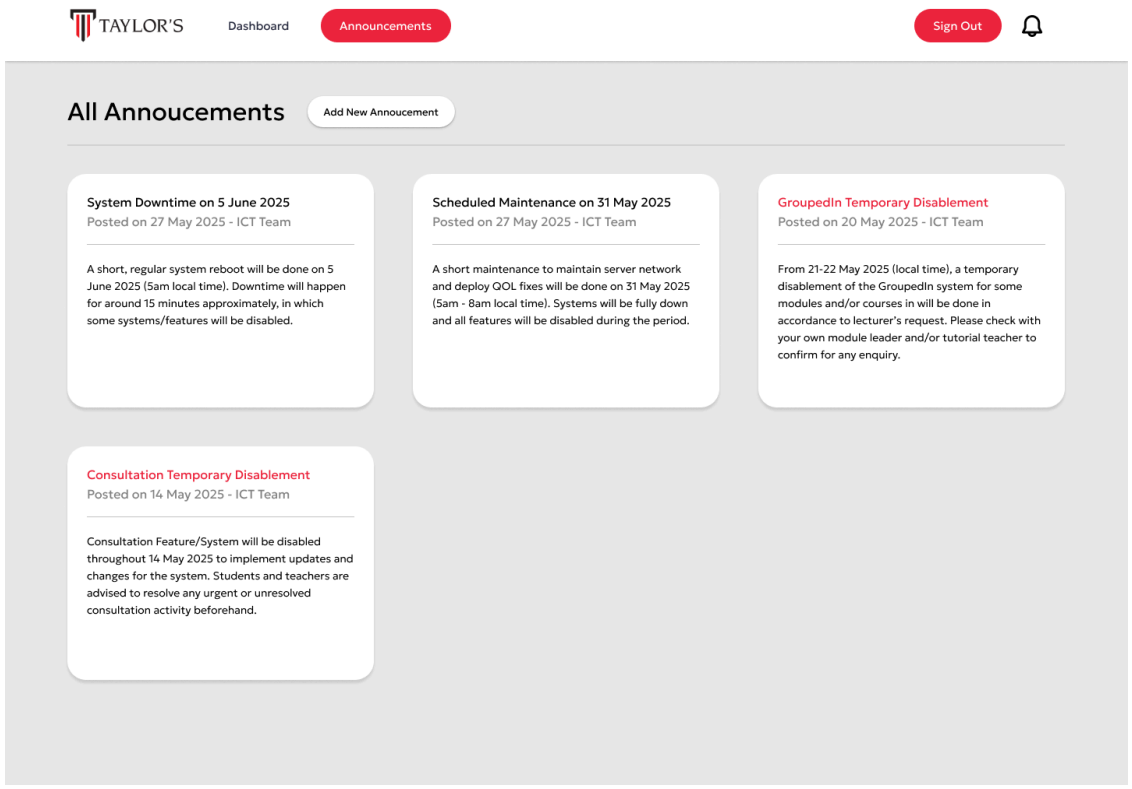
System Admin Main Dashboard Page

The System Admin Main Dashboard Page interface is designed to show admins the overall statistical analysis and health of the system



System Admin Feature Dashboard Page

The System Admin Feature Dashboard Page interface is designed to show admins the detailed activity status of each feature, and for them to Disable or Reboot/Start a specific System/Feature for maintenance purposes

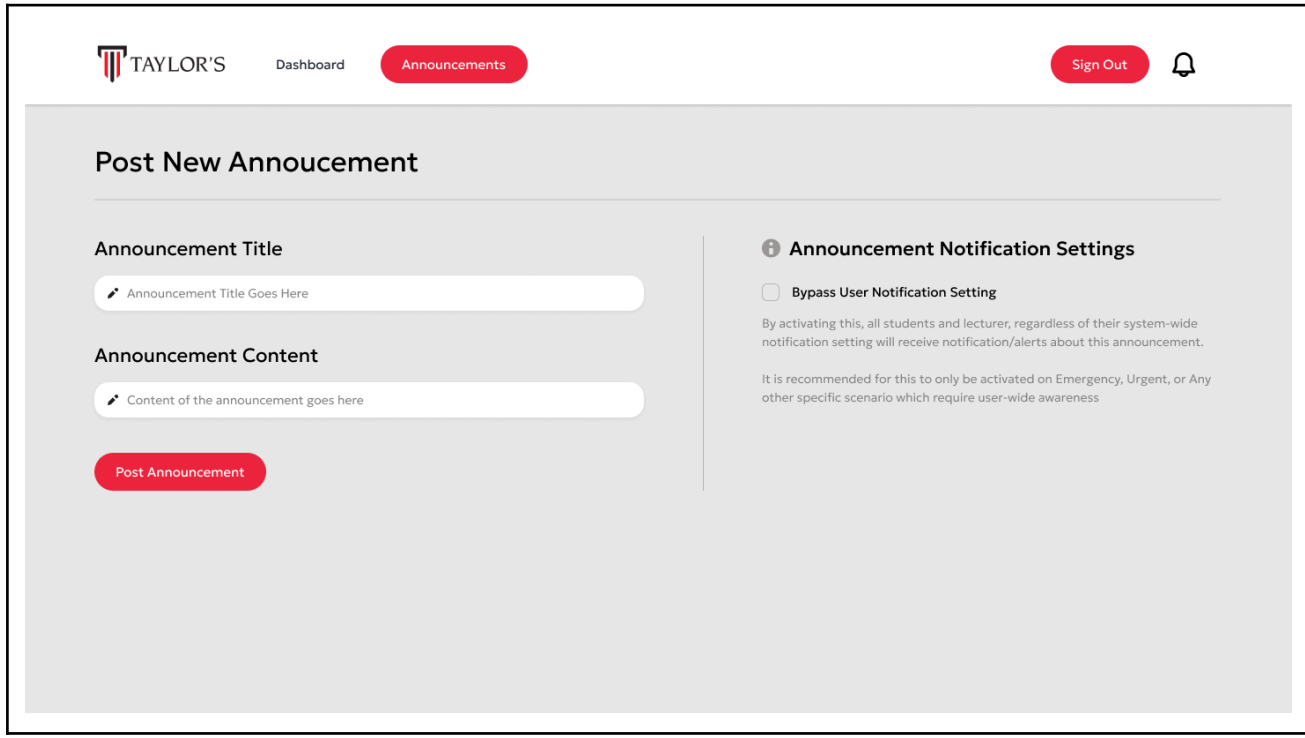


System Admin Announcement Page

The System Admin Announcement Page interface is designed to show latest System Announcements

Functionality:
(Accessible from prototype–Appendix D)

Clicking on Add New Announcement will open the System Admin New Announcement Page



System Admin New Announcement Page

The System Admin New Announcement Page interface is designed to give access to admins for them to post new announcements

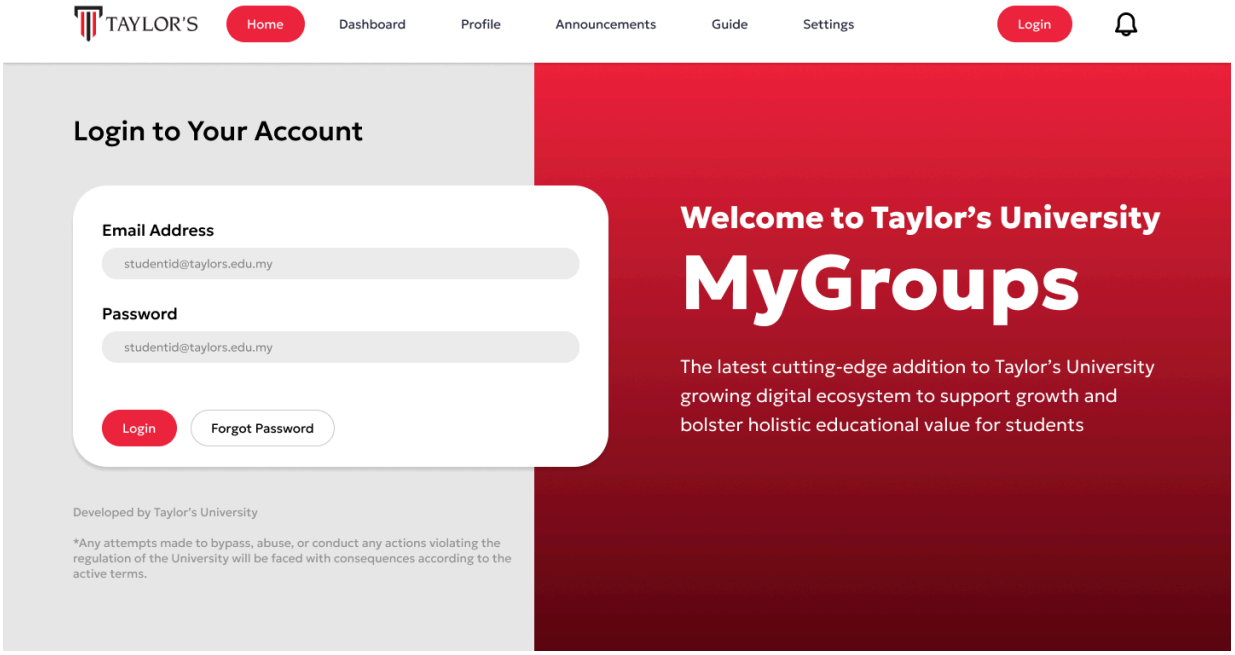
Functionality:
(Accessible from prototype–Appendix D)

Clicking on Bypass User Notification Setting will enable the interactive checkbox

3.3 User Manual

In this section, the user manual for each page will be explained step by step.

3.3.1 Students Guide



3.3.1.1 Login Page

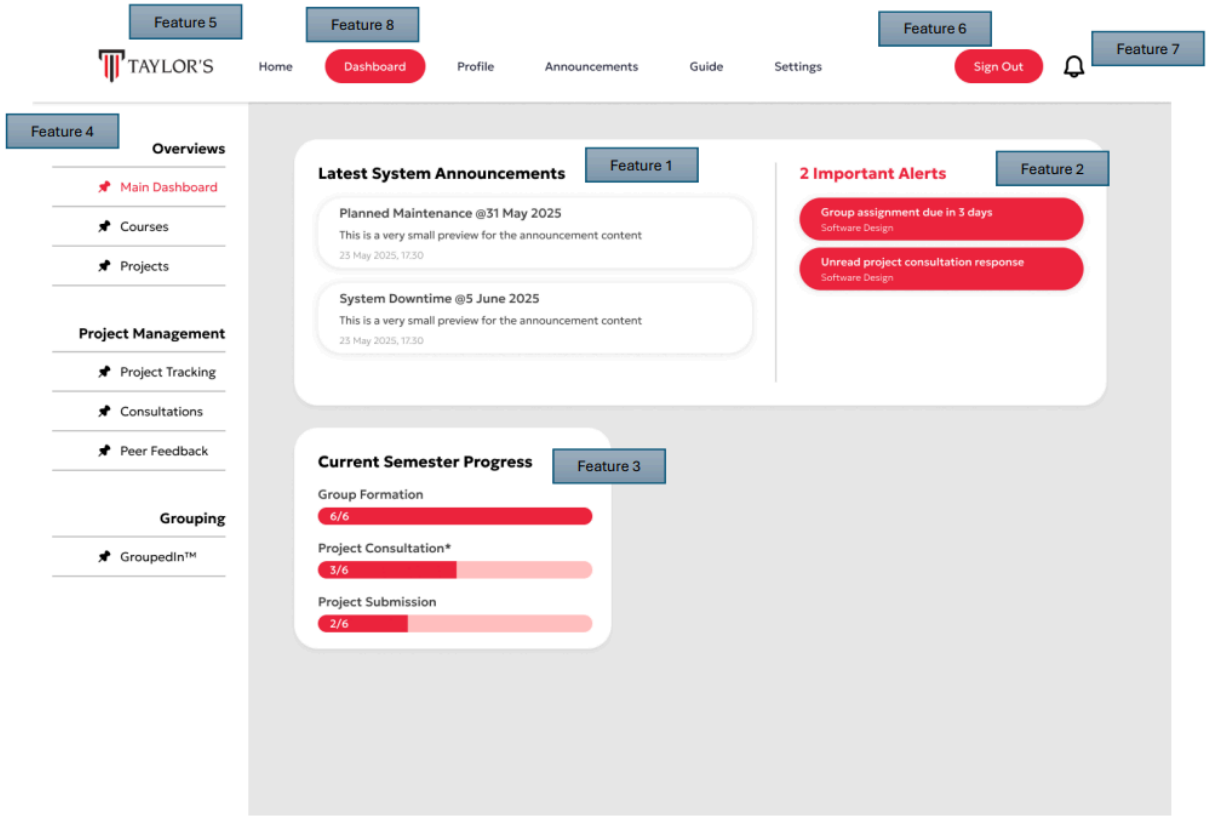
The log in page enables one to log into the system through his/her university username and password.

Step 1: This student will then type his or her Taylor University email.

Step 2: The student will input his/her password.

Step 3: The student will use the Sign in button.

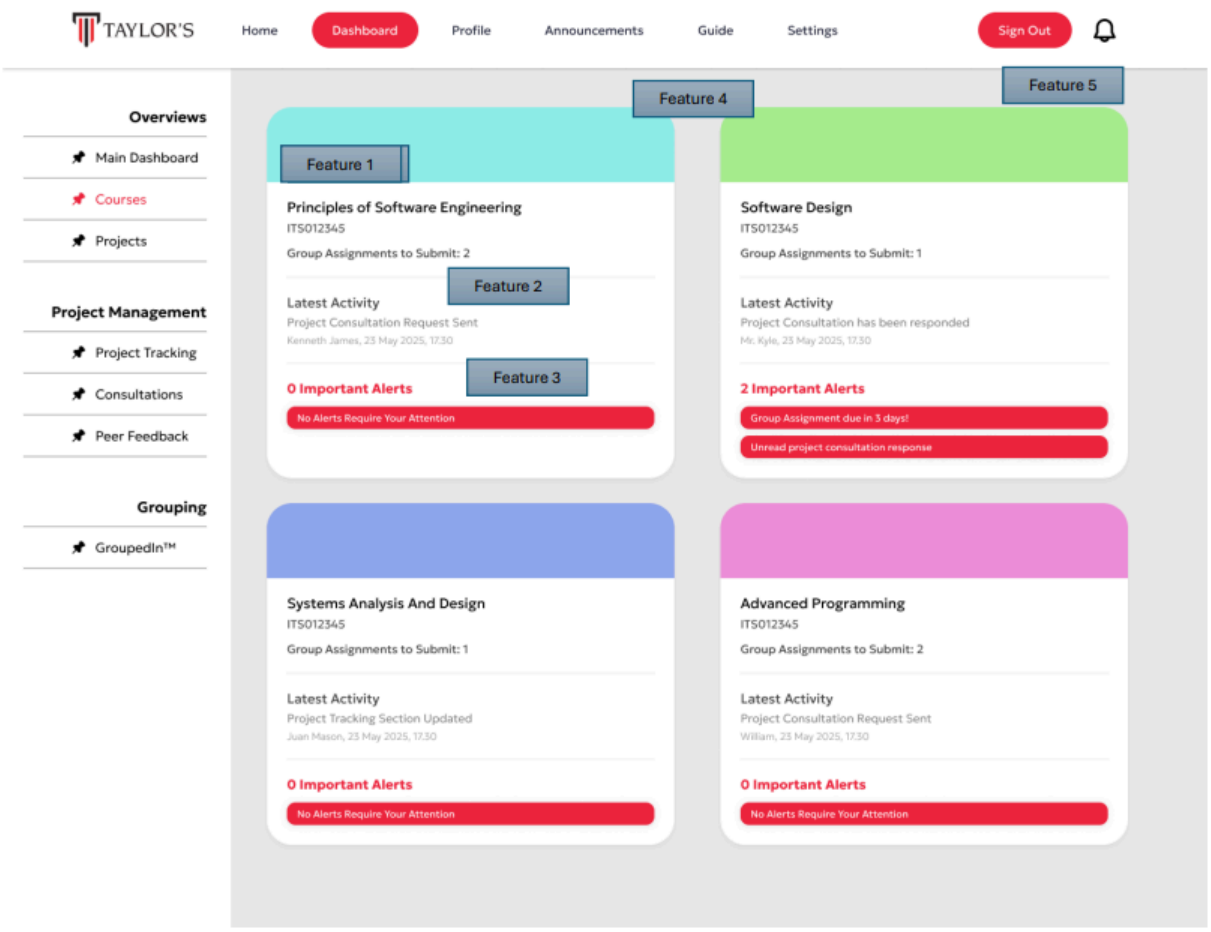
Step 4: Once the user has logged in successfully, the user will be redirected to his/her specific dashboard depending upon his/her role.



3.3.1.2 Student Main Dashboard

A login process will proceed to the student, and the student will access the page called the Dashboard.

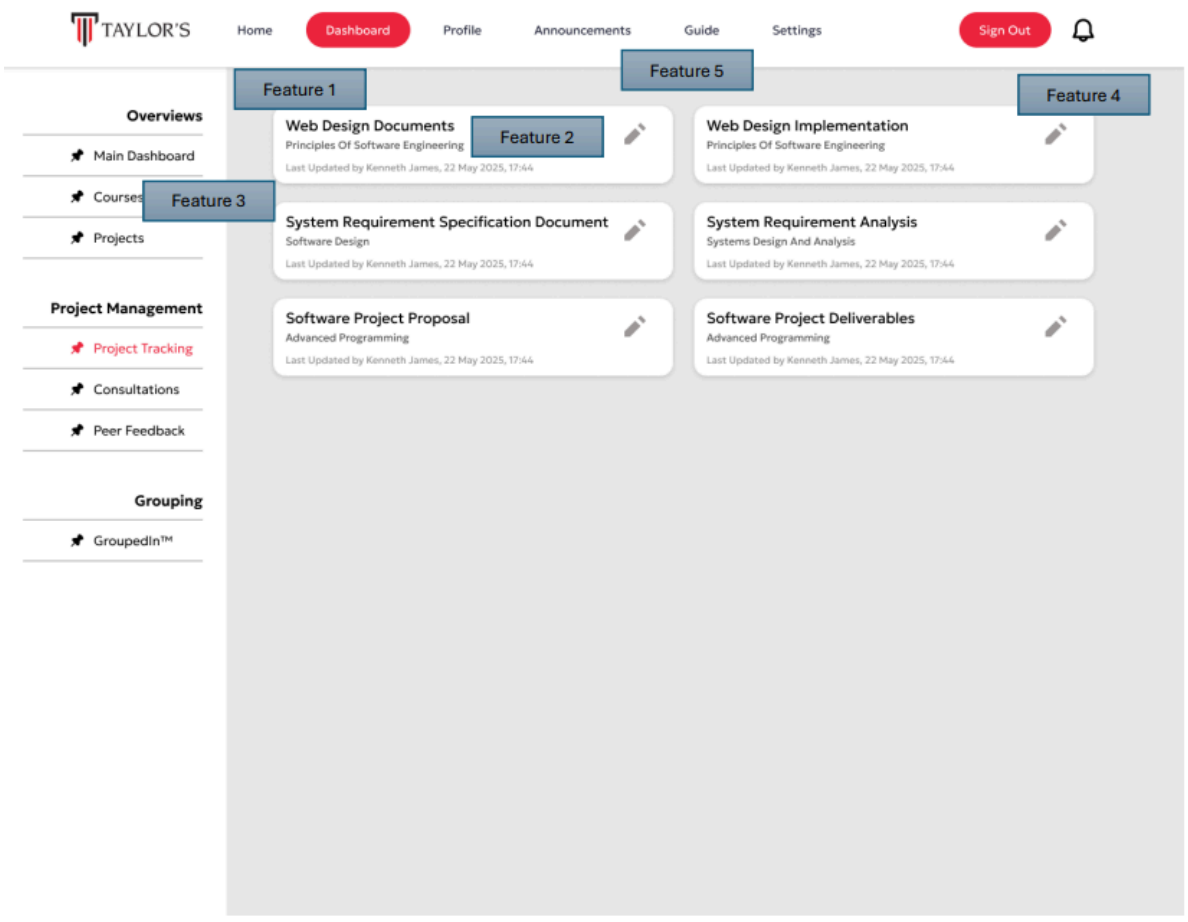
Feature 1: Show the recent notifications of the system including scheduled maintenance or upgrades.
Feature 2: Create important notifications such as consultation deadline or submissions.
Feature 3: Display the progress of the current semester with visual progress bars of Formation of Groups, Consultation and submission.
Feature 4: Give sidebar navigation to reach the pages including Courses, Projects, Project Tracking, Consultations, and GroupedIn.
Feature 5: Locate a top menu bar where Home, Profile, Announcements, Guide, and Settings can be viewed.
Feature 6: Allow the students to log out of the system safely by clicking on the sign out button.
Feature 7: On clicking the bell icon, a user will be able to see notifications inside the app.
Feature 8: Mark actively used page by coloring tab of it (e.g., on Dashboard has a red color with underline).



3.3.1.3 Student Course Dashboard

The "Courses" page shows a list of all the module enrolled in by the student and their most up-to-date state.

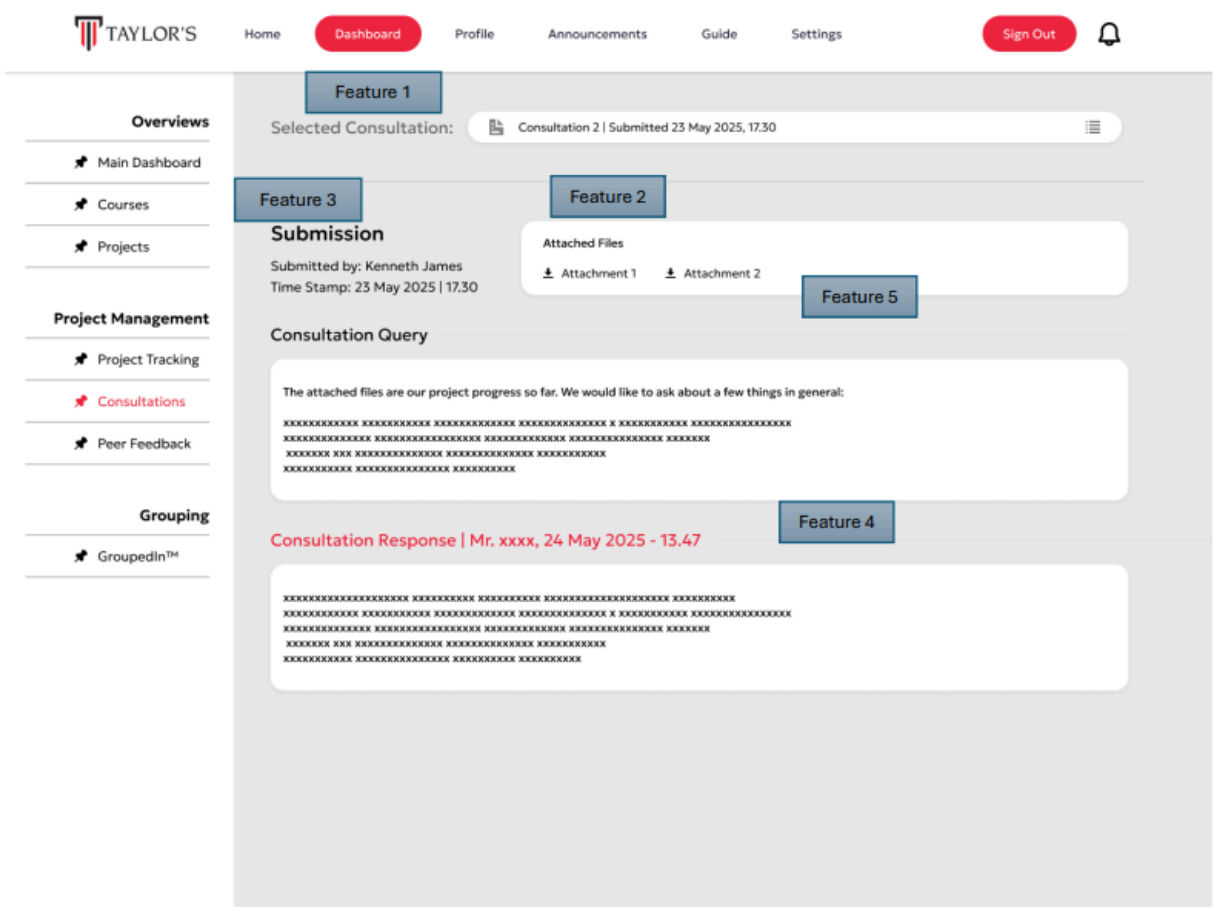
Feature 1: Include a course name and a subject code at a visible location within a course card.
Feature 2: Display the most recent action in the course (e.g. Consultation request updated).
Feature 3: Show urgent notifications in red in case there are some deadlines or problems to consider.
Feature 4: Assign specific colors to each section of cards instead of telling each card apart with text.
Feature 5: Provide the opportunity to get to the detailed page of the course through the card itself.



3.3.1.4 Student Project Tracking

The Project Tracking page will enable the students to view and control all the supporting documents of their project in each course.

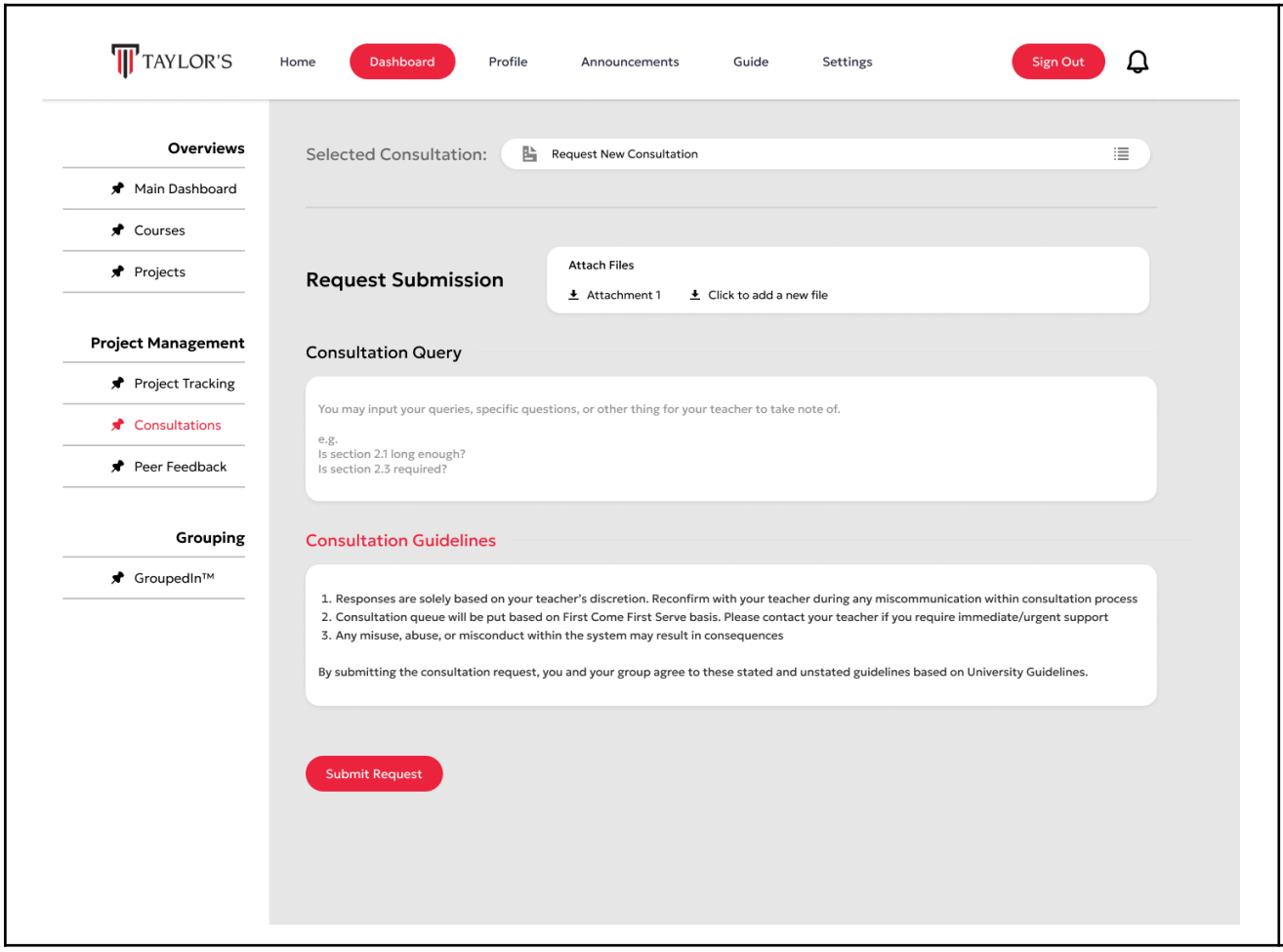
Feature 1: Show a list of the project documents like... proposals, specifications and deliverables in form of a card.
Figure 2: Display the Subject/Module name below the title of a document.
Feature 3: Present the date of the last update and the name of the person that carried out the update, below each card.
Feature 4: Add edit icon (pencil) to each of the document cards in order to enable a quick access to changes.
Feature 5: The project documents should be presented in a nice grid with the aim of assisting the students find and compare documents easily.



3.3.1.5 Student Consultation Detail Page

The student consultation detail page interface has been created to show the consultation submissions and the feedback of the concerned students.

Feature 1: Show a dropdown menu with the option of choosing among the consultations previously sent.
Feature 2: Display the complete transaction of the consultation, contents of the query and files included.
Feature 3: Mark date/time of submission and name of submitter.
Feature 4: Show the reaction of the lecturer under the question of the student along with a time stamp and a user name.
Feature 5: Let the students access the attached files that were included along with the query.



3.3.1.6 Student Consultation Request Page

The interface used by the Student Consultation Request Page will enable the students to get a new consultation by providing a query and an accompanying file.

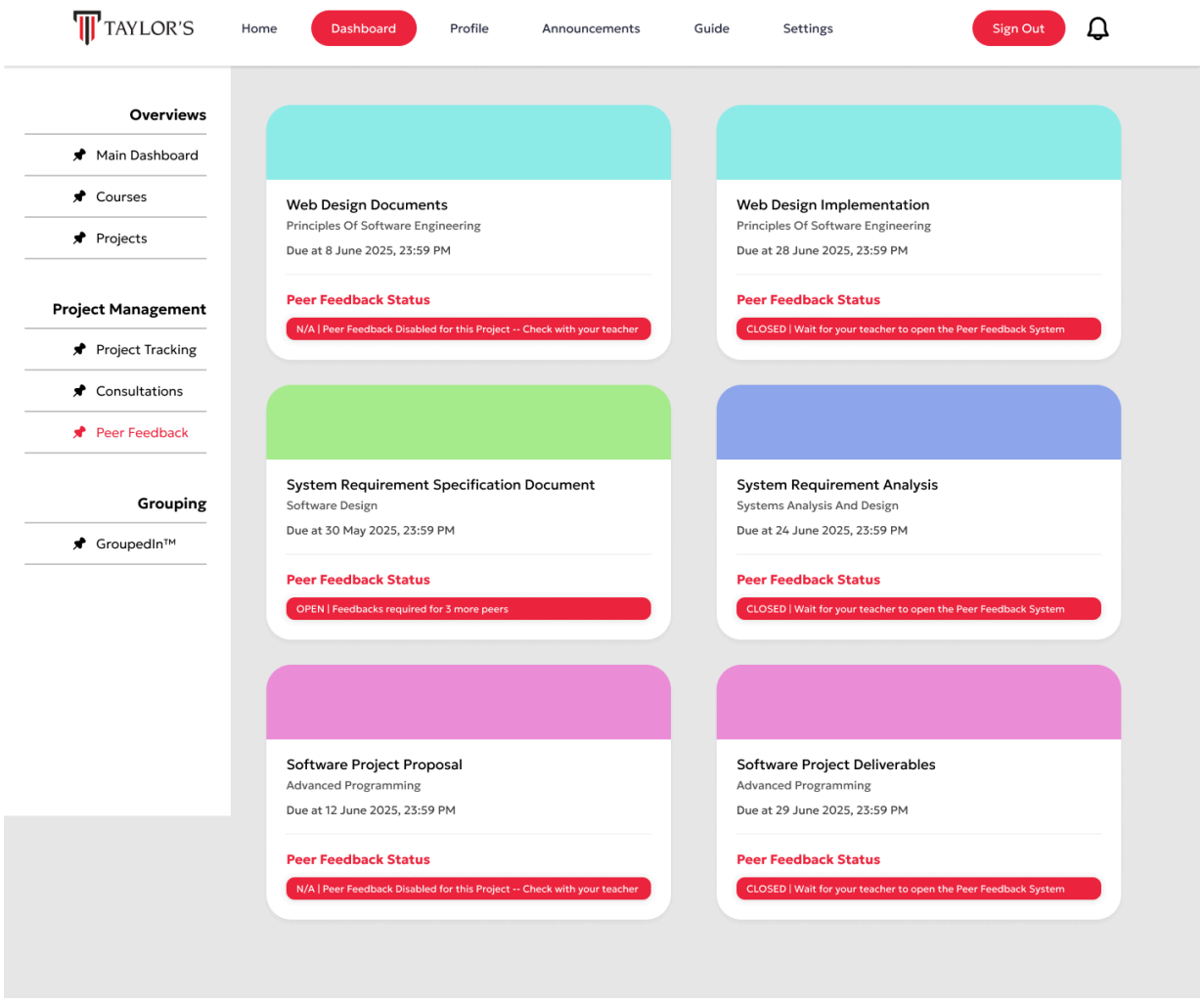
Feature 1: Provide students with the possibility to select the option Request New Consultation in the drop down menu.

Feature 2: Offer a field where a student may input his consultation query.

Function 3: Include an option that enables students to append a file or files to a request they are making.

Feature 4: Have consultation guidelines posted up so that rules and expectations are known to students.

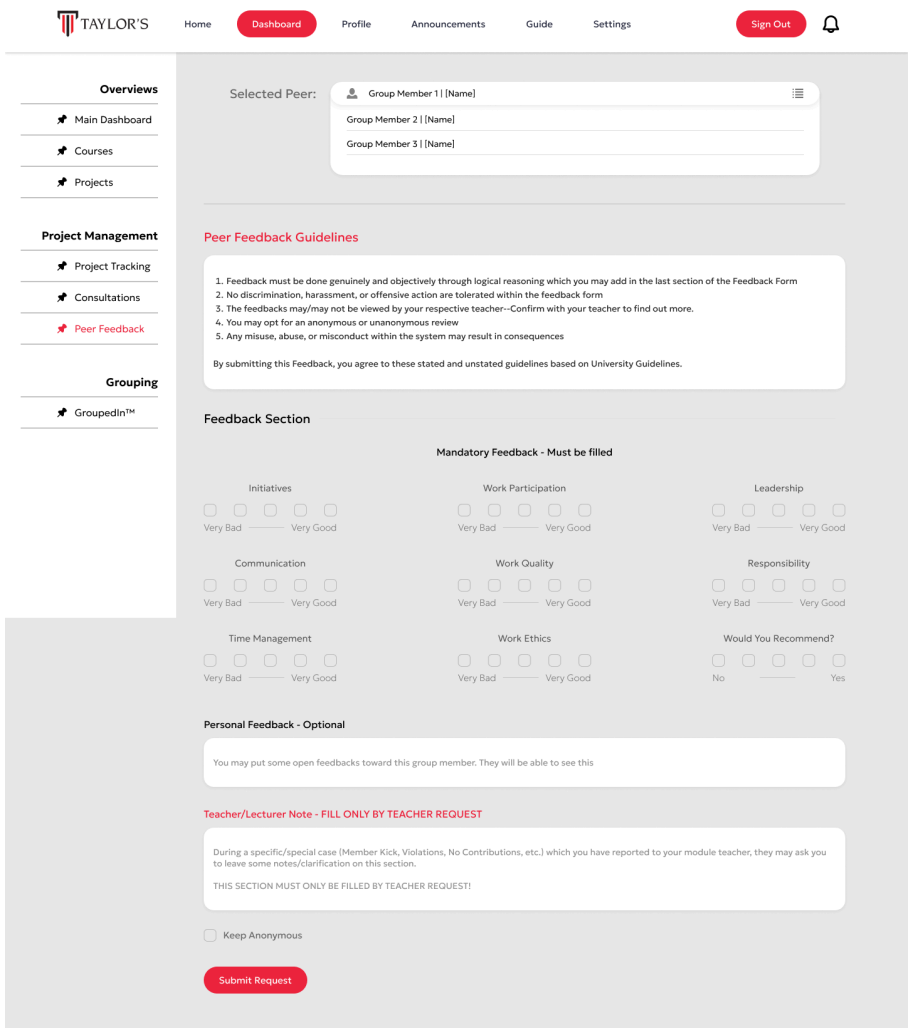
Feature 5: add a button “Submit Request” so that the consultation could be completed and sent.



3.3.1.7 Student Peer Feedback Main Page

The main page of Student Peer Feedback interface represents a list of the projects completed by students, and the feedback status of their peer.

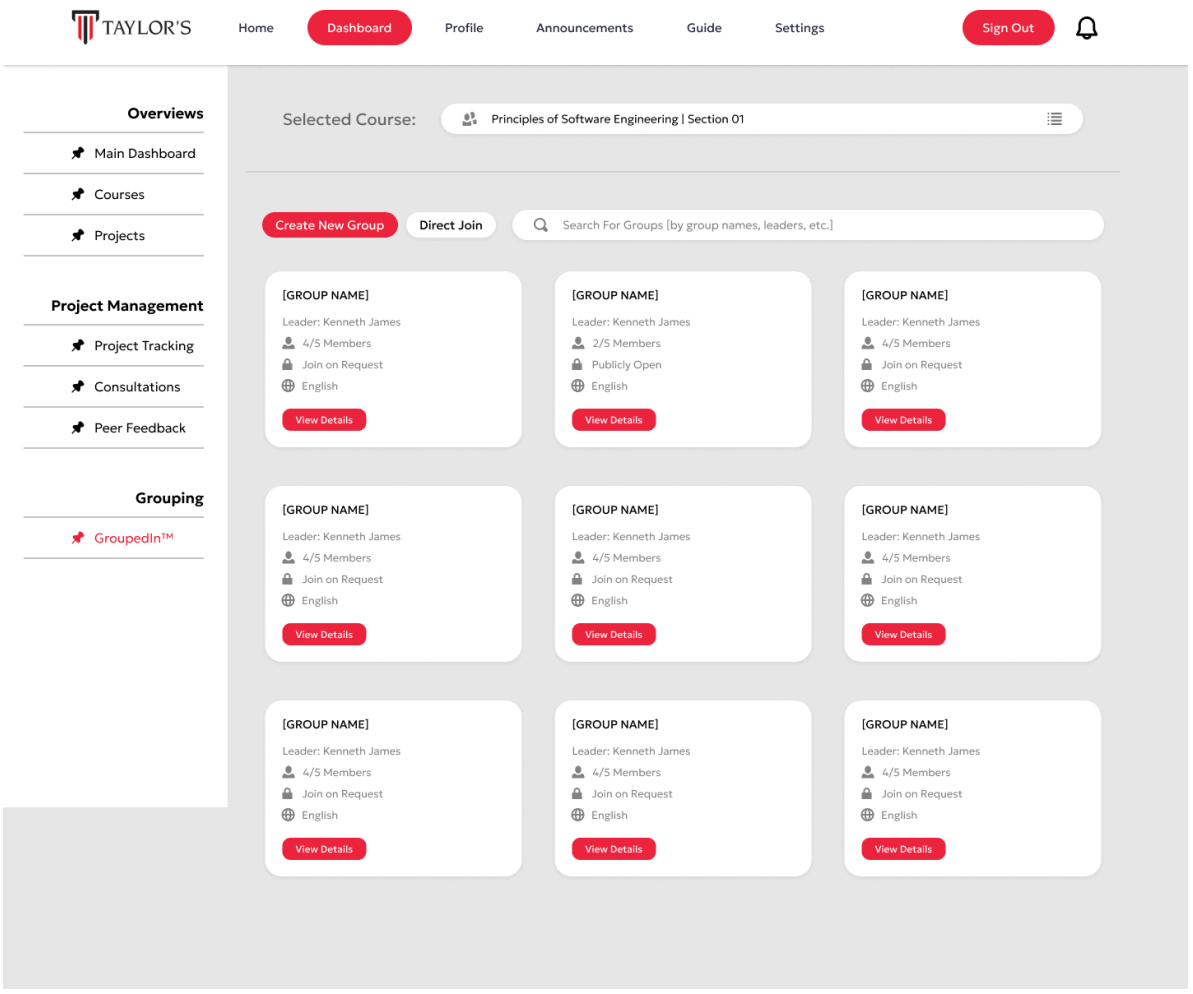
Function 1: Show a status of peer feedback on every project submission.
Feature 2: add color markers to indicate warnings on critical peer feedback (e.g. red = missing).
Feature3: Mark the due date of every peer feedback.
Feature 4: Show all the projects in the form of cards so that they can easily be scanned.
Feature 5: allow students to open the Peer Feedback Detail Page by simply clicking a card.



3.3.1.8 Student Peer Feedback Detail Page

The Interface Student Peer Feedback Detail Page provides students with the strictly organized system of getting an opportunity to assess their group members.

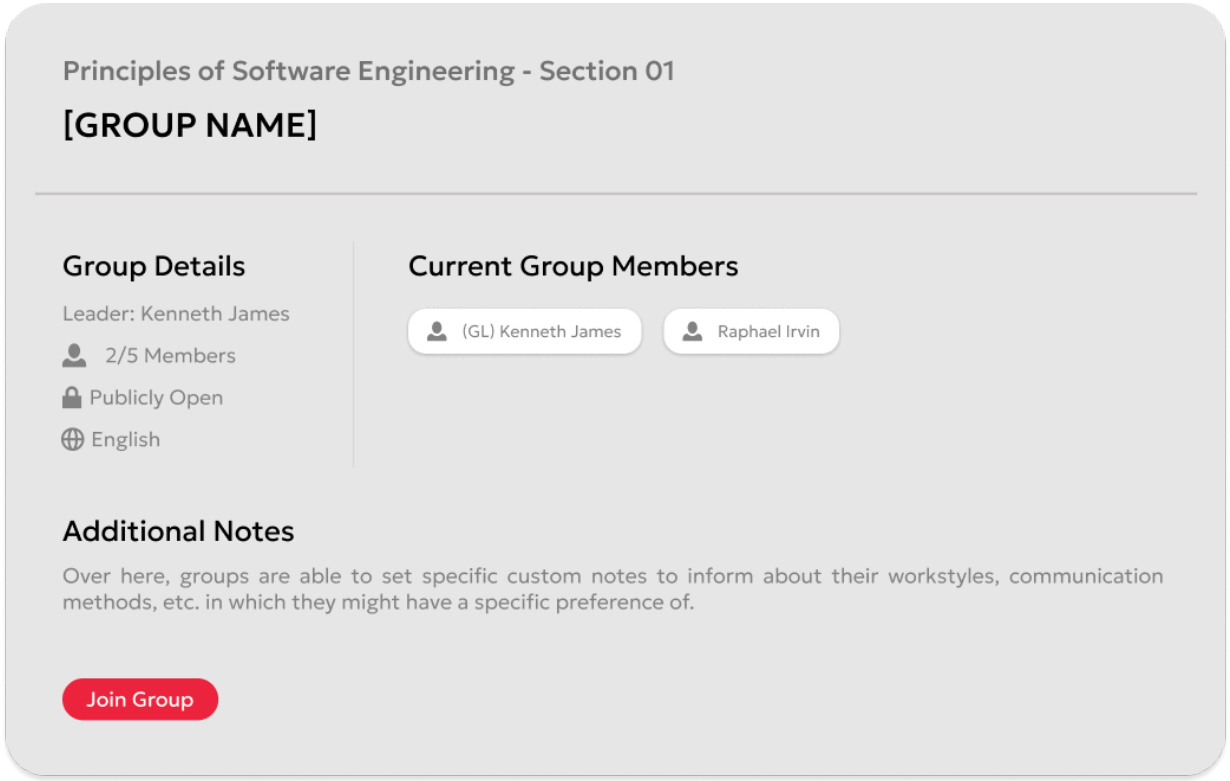
Feature 1: Students should be able to select a group member in the dropdown list and evaluate him.
Feature 2: Show peer feedback guidelines so that the students can follow the appropriate rules.
Feature 3: Give a rating with scale buttons of different assessment criteria (e.g, participation, Time control).
Feature 4: Add an additional optional text box where to write personal comments.
Feature 5: Have a check box so that students can send an anonymous feedback.
Feature 6: Show a teacher only section that come up when there is a need that the lecturer may have.



3.3.1.9 Student GroupedIn™ Page

Student GroupedIn™ Page interface enables students to navigate through the list of project groups that they can read and reply.

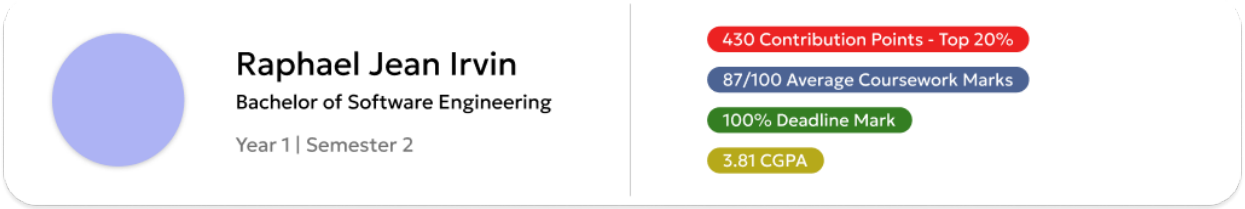
Feature 1: Drop down menu to filter groups by the option course/module is chosen.
Feature 2: View information of groups containing name of group, members, requests to join the group and group status in the form of cards.
Feature 3: Button to view details to check the whole information related to a group in a special overlay.
Feature 4: Button of the name Create New Group that enables a student to access the Group Creation Page.
Feature 5: When the user wants to send a join request to another meeting, there would be a button called Direct join on which one can tap to make an instant join request without filling out any other form.
Feature 6: Built in search bar to filter groups based on search word or group name.



3.3.1.10 Group Detail Overlay

The Group Detail Overlay interface gives an extensive detail of a particular group, when the student presses the View Details button on a GroupedIn™ Page.

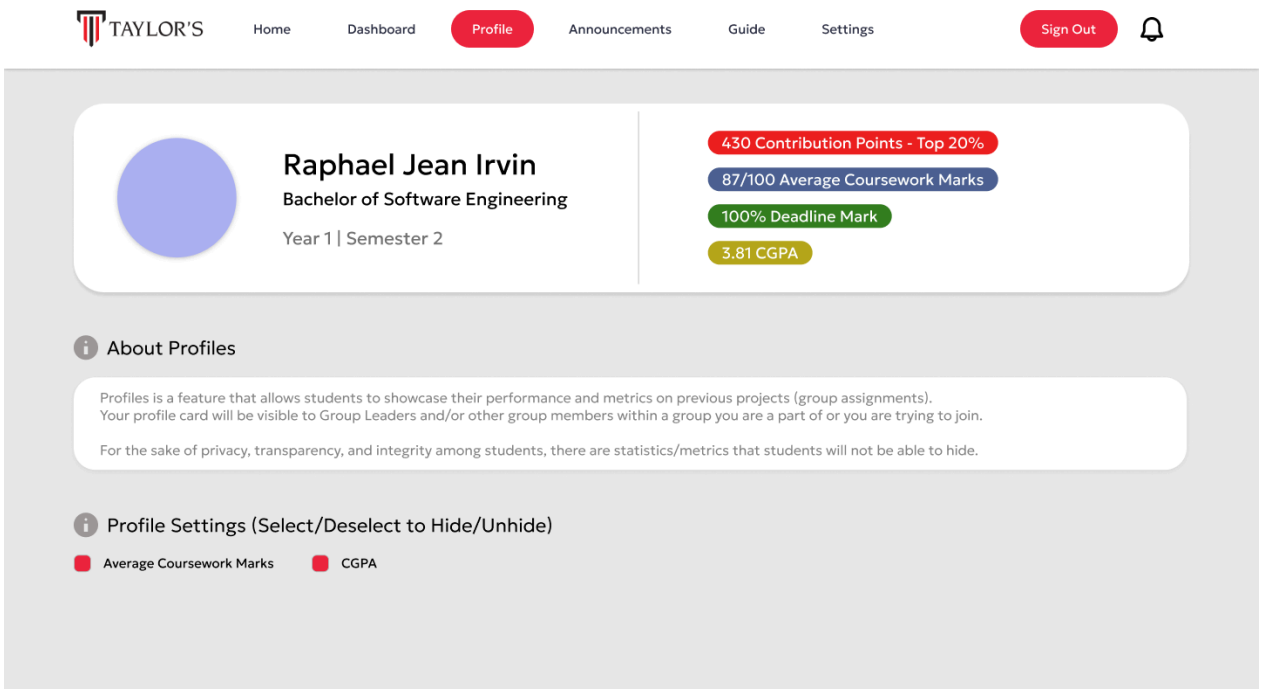
The first feature is the name and role of a group leader.
Feature 2: Mark the count of current members and capacity all together.
Facility 3: Show the group status (e.g. Publicly Open), and the language used.
Feature 4: list current group members in a tag format.
Feature 5: Add extra remarks of working style or communication preferences.
Feature 6: Present a sufficient button with the text “Join Group” where students can send out a requesting to join the group.



3.3.1.11 Profile Card Overlay

Profile Card Overlay interface appears when the user clicks a student profile in Group Detail Overlay.
It displays the profile details based on the configurations chosen on Student Profile Page.

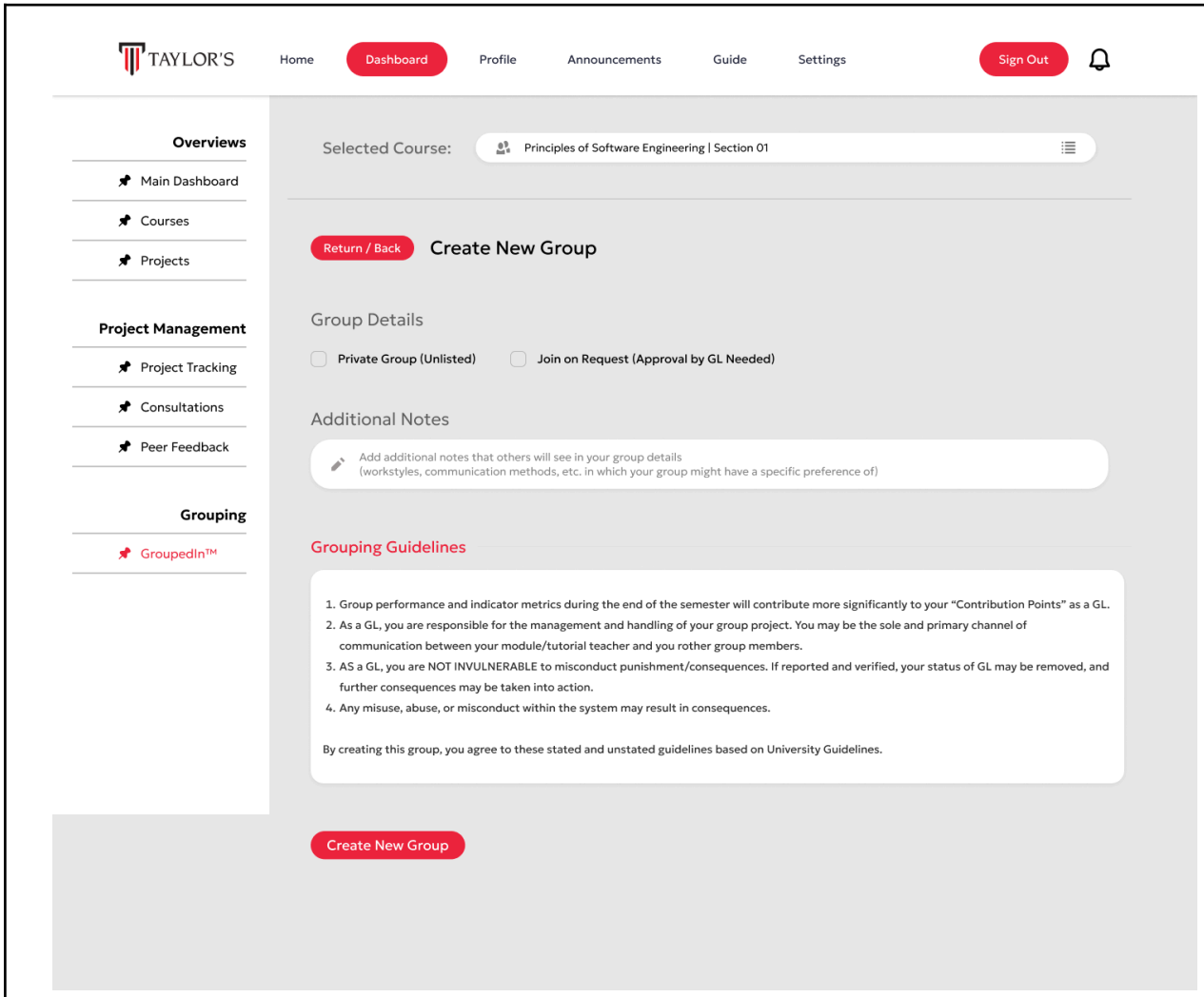
Feature 1: Show name of the student in full, program and semester.
Feature 2: Display academic performance GPA and course work marks.
Feature 3: Ranking visual indicators (e.g. Top 20%, 100% Deadline Mark).
Test 4: The card layout will change dynamically depending on the selected views on visibility.



3.3.1.12 Student Profile Page

The Student Profile Page gives the students a layout of their profile data as well as the opportunity to update the content of their profile card.

Feature 1: Profile summary encompasses program, academic year and semester.
Feature 2: the possibility to switch the display of certain information in the profile (e.g. GPA, coursework grades).
Feature 3: There are checkbox settings, which disable/enable statistics in the profile card.
Feature 4: Informative part which illustrates the effect of the profile card personalization.



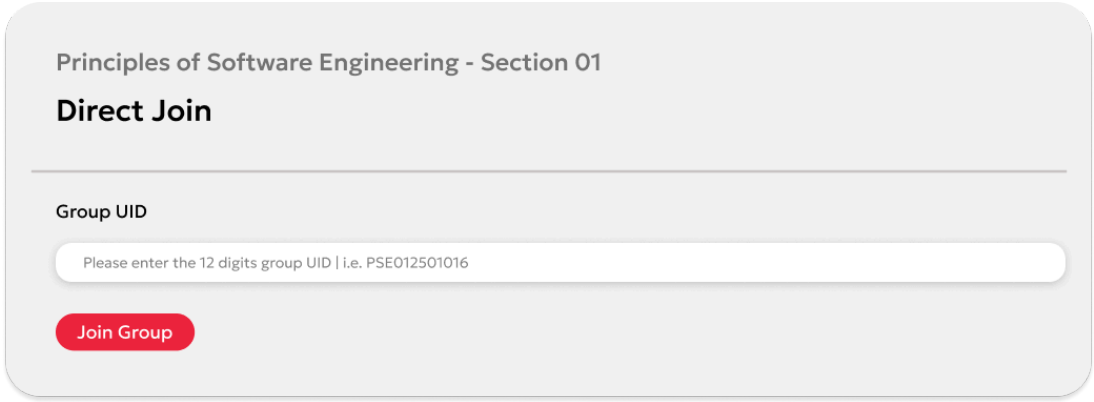
3.3.1.13 Student Group Creation Page

Student Group Creation Page interface is meant to provide the students with access to creation of their own group with corresponding custom settings.

The first feature is Create Group Functionality.
Allows the students to organize a new group according to the selected course module.
Feature 2: Privacy Selection
Checkboxes allow the student to make a decision whether the group is:

- Public
- Private
- Requested entry with the group leader permission

Feature 3: Additional Notes Section
Allows space to make optional comments or preference concerning the group (e.g., work habits, meeting times).
Title 4: Guidelines on Grouping
There is a specified section that states provisions, ethical behavior and penalties of misuse.

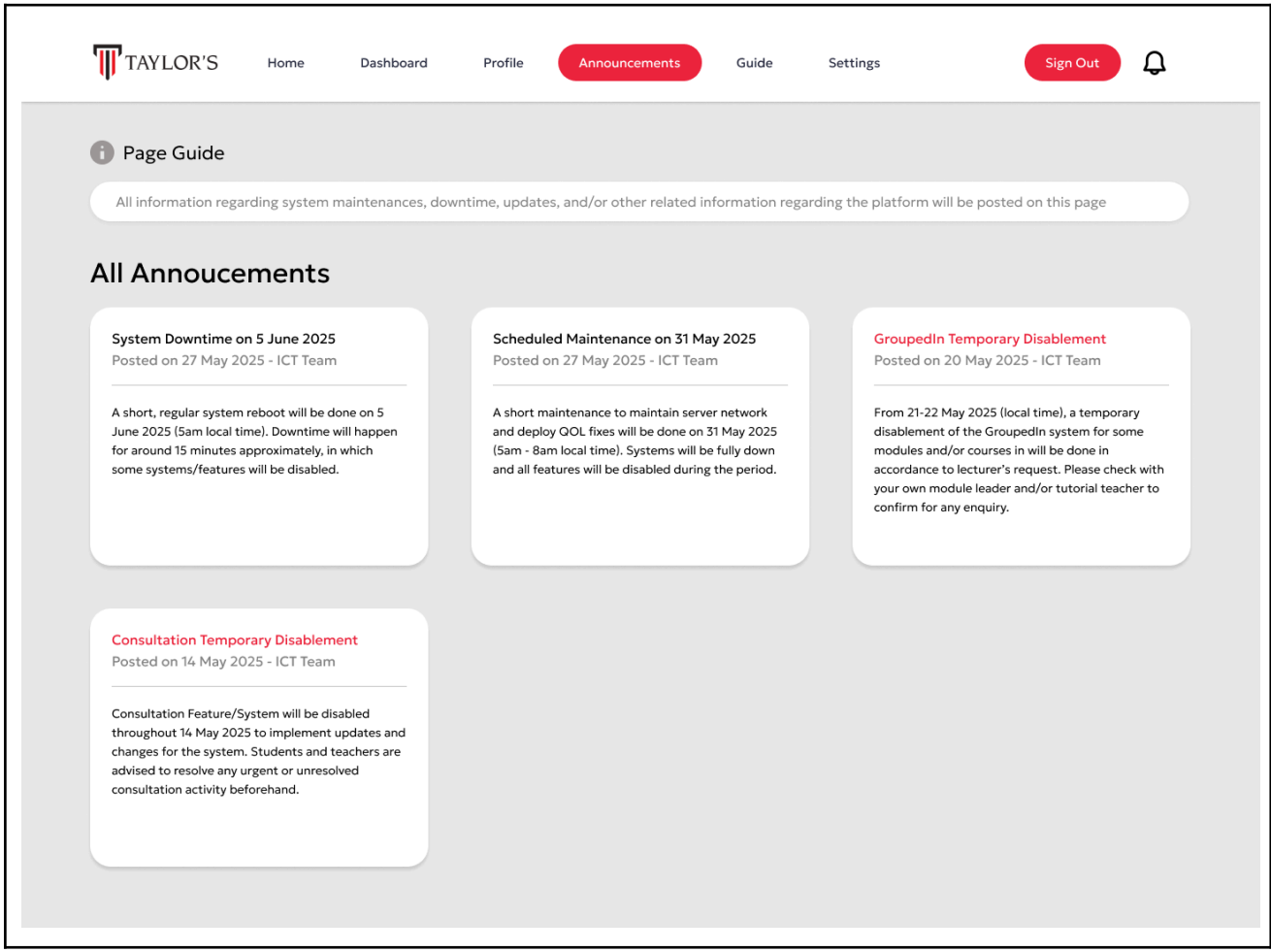


3.3.1.14 Direct Join Overlay

someone decides to use Direct Join as a way of joining a group.

Feature 1: Input Field of Group UID
Enables the students to type in the 12-digit unique group identifier (UID) to join an individual group directly.

Feature No 2: Join Group Button
When the UID has been entered, it is just a matter of clicking the Join Group button to file the instant request to join the group as such.



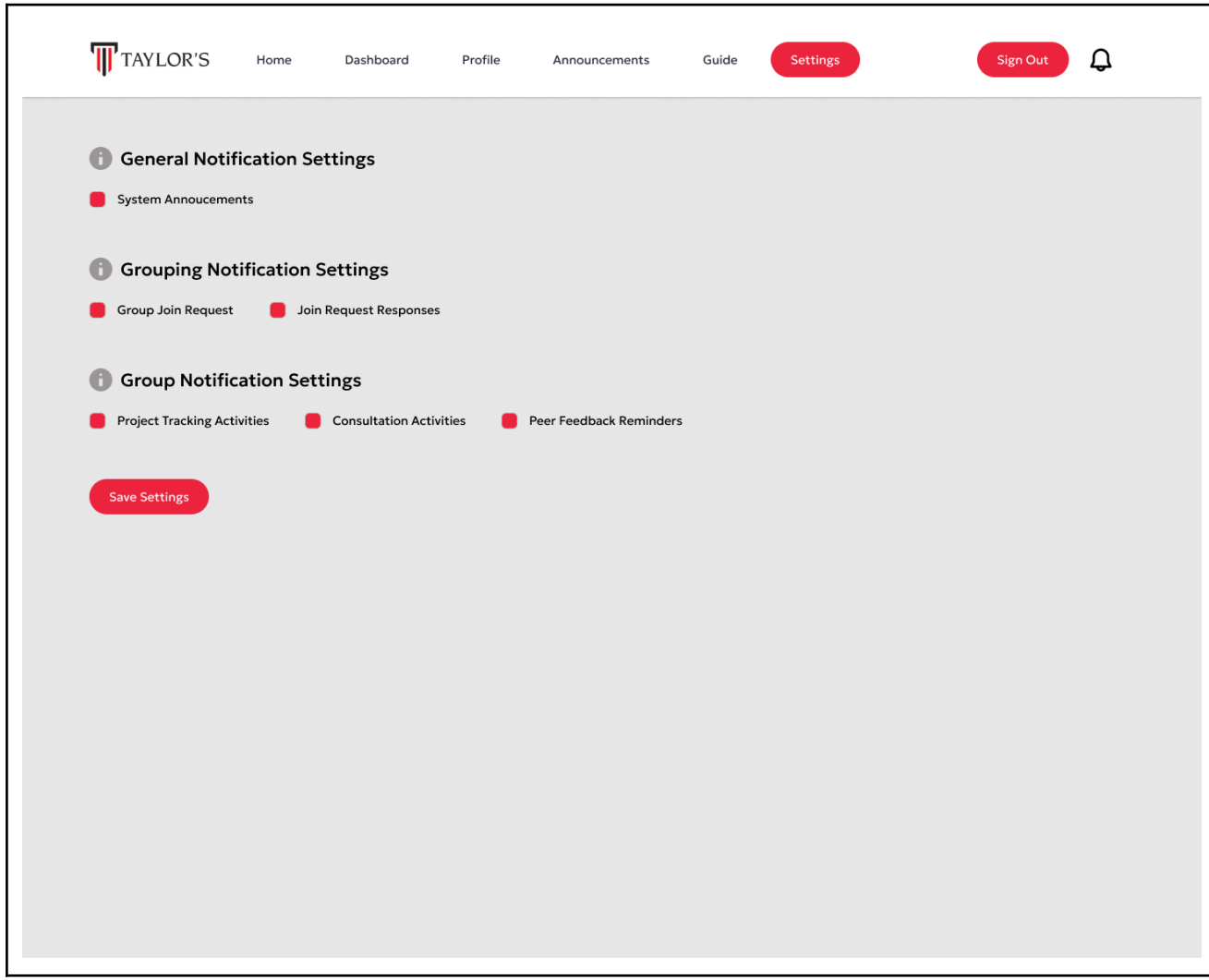
3.3.1.15 Student Announcement Page Page

Student Announcement Page interface has been created in order to display the newest System Announcements.

Review feature no.1: Page Guide Section
Gives its users a brief explanation of what this page is. (e.g. it may be maintenance, update or downtime notice).

Feature 2 Layout of Announcement Cards
The individual announcements are displayed as cards that include a title, the time of publication, will be run by (e.g., ICT Team) and long description.

Feature 3: Categories of Announcement
Various announcements are visually distinguishable, i.e. the urgent problems can be written in red, regular ones in any gray.



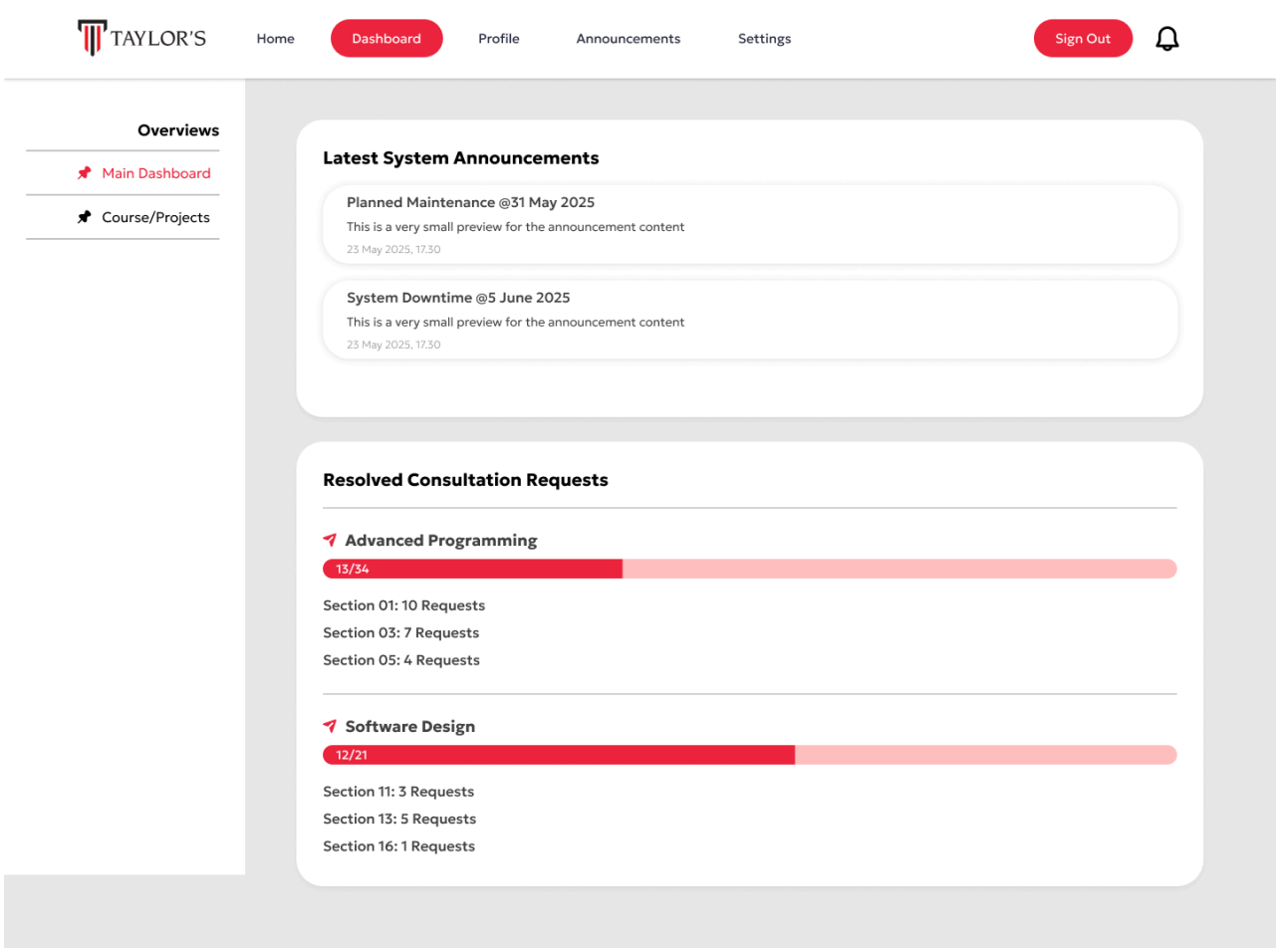
3.3.1.16 Student Settings Page

The student setting page interface is intended to present the Students with the settings that they might desire to select, especially the settings of notifications.

Feature1: switch notifications system-wide
Allows or blocks system wide messages to the student.
Feature2: Switch over notifications when joining a group
Enables the student to give or refute the alerts as someone requests to join the student group.
Feature3: Toggle response to join requests notifications
Sends a message to tell the student whether they have been accepted or denied into another group in regards to a join request.
Feature4: Enable toggle project tracking notifications
Enables the student to get an update of the progress and tracking of the project.
Feature 5: Switch the consulting activity notification on and off
Facilitates notifications regarding request of consultation and response of teachers.

	Feature 6: Toggle the availability of feedback notifications about peers Allows the student to activate/deactivate the notification of a deadline or any updates related to peer feedback. Feature7: Save Settings button Enables the student to save every modification on the preferences of the notifications.

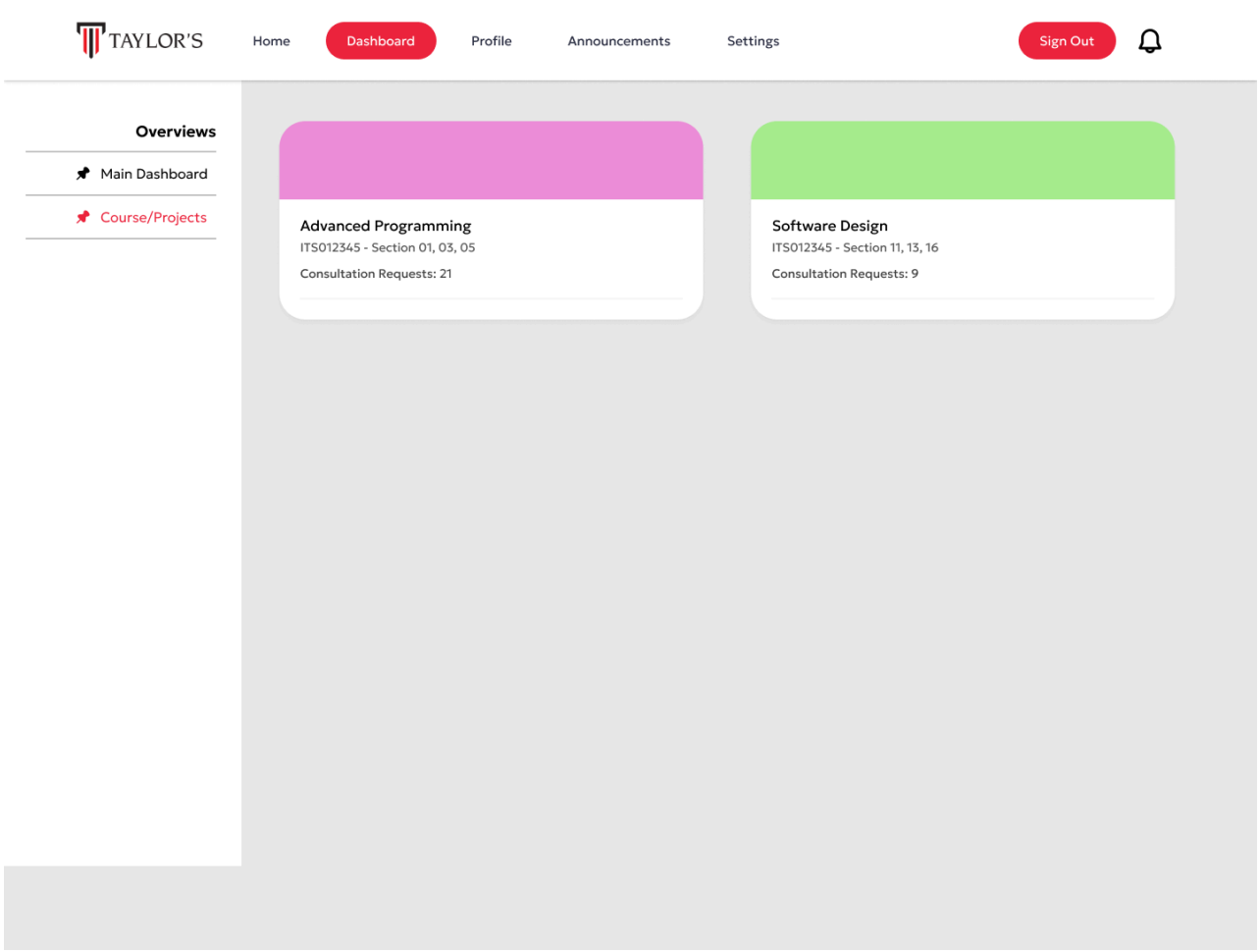
3.3.2 Lecturer Guide



3.3.2.1 Lecturer Main Dashboard Page

The Main Dashboard Page interface is where the Lecturers are displayed the last System Announcements and their progress in solving consultation requests.

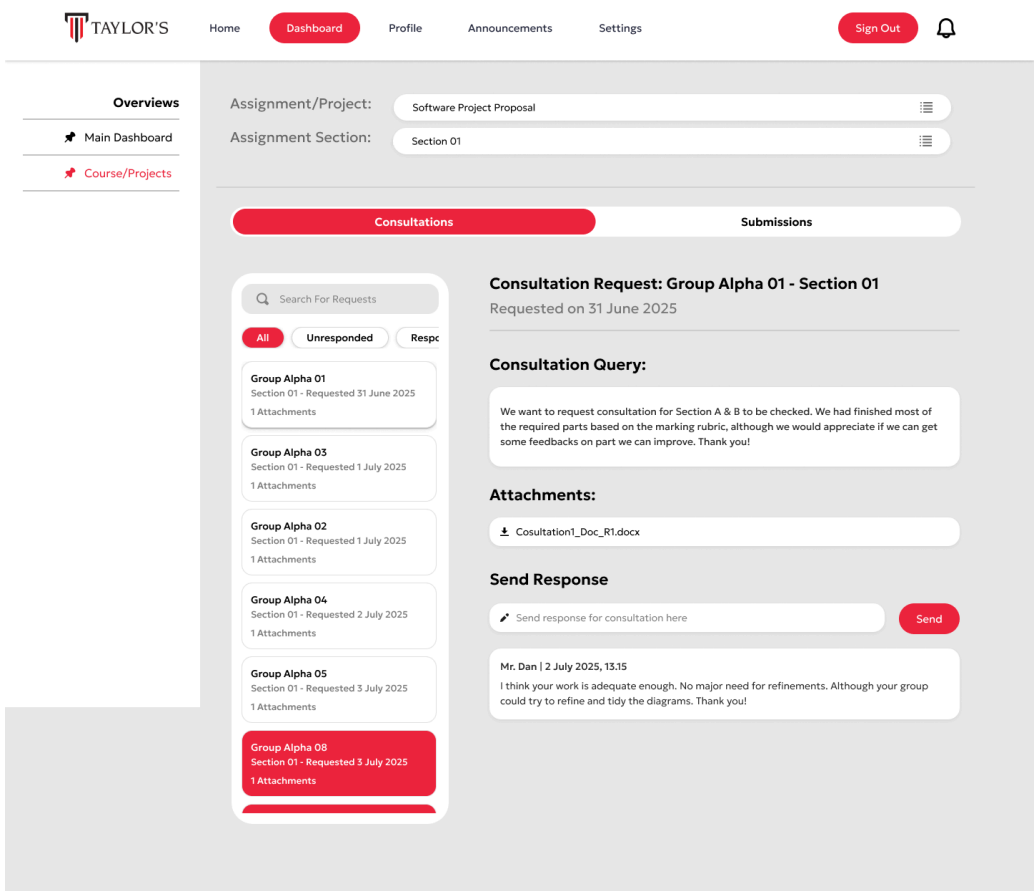
Feature 1: See system wide announcements
Screens important information like planned work and system shutdown.
Feature 2: see settled consultation progress
Displays a graphic percentage list of the number of consultation requests that each of the modules has sorted out.
Feature 3: See section wise breakdown of requests
Lists the number of the requests of consultations received and solved in each of the portions of the modules.
Feature 4: Names of modules can be clicked
Enables the lecturers to click the name of a module so that they are redirected to the more detailed submission and consultation response page.



3.3.2.2 Lecturer Dashboard Course Page

The Lecturer Dashboard Course Page interface has been designed in a manner that enables Lecturers to see an overview of the modules he is currently dealing with.

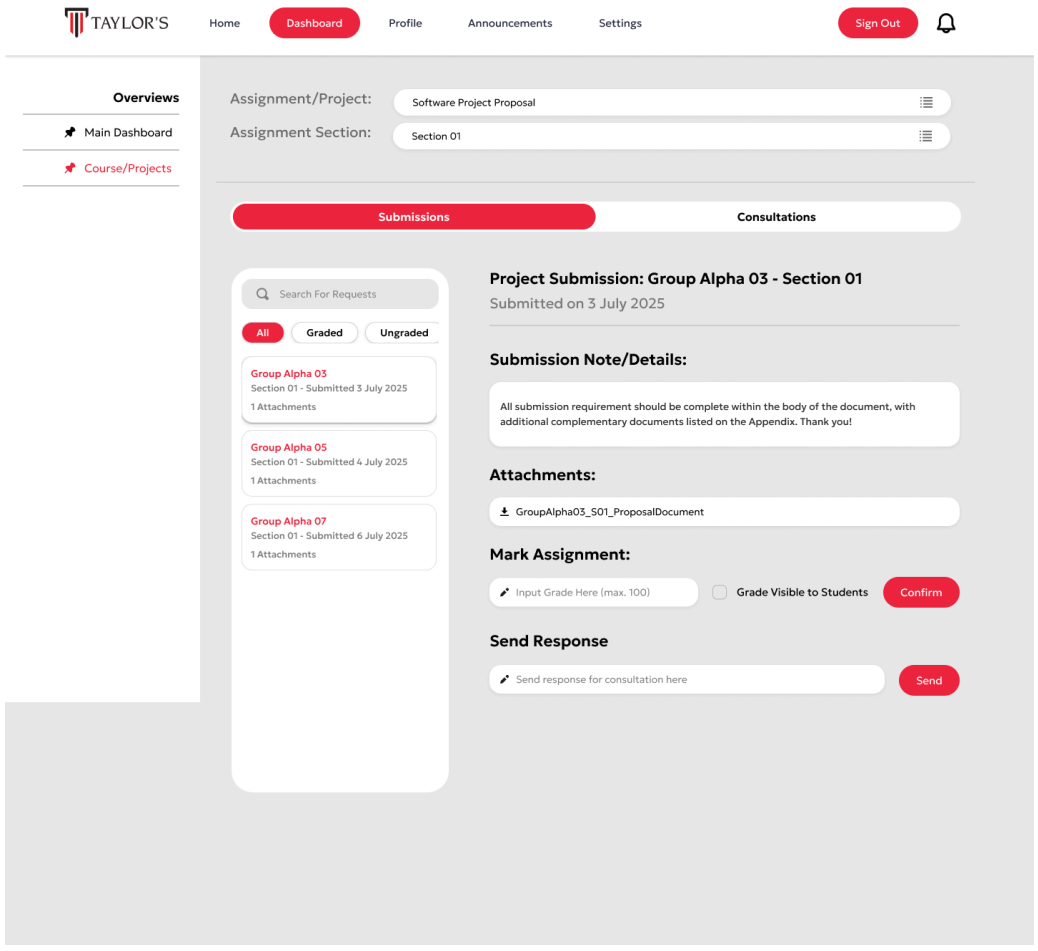
Feature 1: Show module name, code
Displays the name of the course, and its corresponding identification number (e.g. ITS021345).
Feature 2: Listing sections that are dealt with
Provides details of all the sections that fall under each module allocated to the lecturer.
Feature 3: Show consultation requests one count
Relevates the many consultation requests received on each module.
Feature 4: Module cards that are color- coded
The various module cards are visually separated by color-coding so that the difference can be told easily.
Feature 5: Clickable Module card
An act of clicking on any given module card will re-direct the lecturer to the Lecturer Submission and Consultation Detail Page.



3.3.2.3 Lecturer Submission & Consultation Detail Page | Consultation Page

The Lecturer Submission & Consultation Detail Page interface is meant to present lecturers with all the consultation requests made by students and enable them to respond on them.

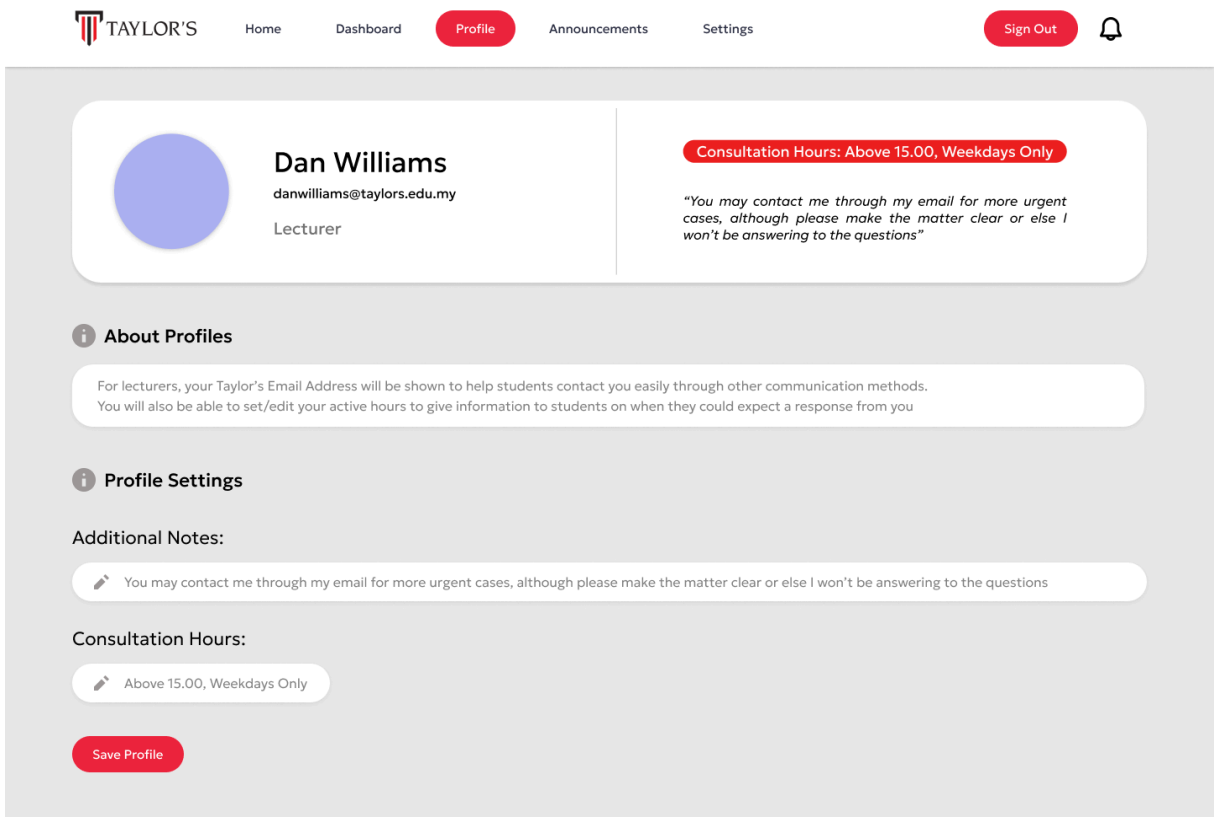
Feature 1: Show list of consultation requests
Displays all the consultation requests in categories by group name, date and section.
Feature 2: Filter buttons (Responded/ Unresponded)
The consultation requests can be filtered by lecturers based on their status such as they have responded already or their status is still pending.
Feature 3: Show advanced query of consultation
When selecting a request the message contents of the student can be displayed in detail.
Feature 4: Preview and access to attachments
Allows lecturers to examine or acquire attached documents of the student.
Feature 5: Text box to write the response and Send button
Gives the lecturers an option to respond to it by simply writing it and posting it to the page.



3.3.2.4 Lecturer Submission & Consultation Detail Page | Submission Page

The interface Lecturer Submission & Consultation Detail Page | Submission Page is built in such a way that the lecturers can see overview/information on all the submissions that they are required to check.

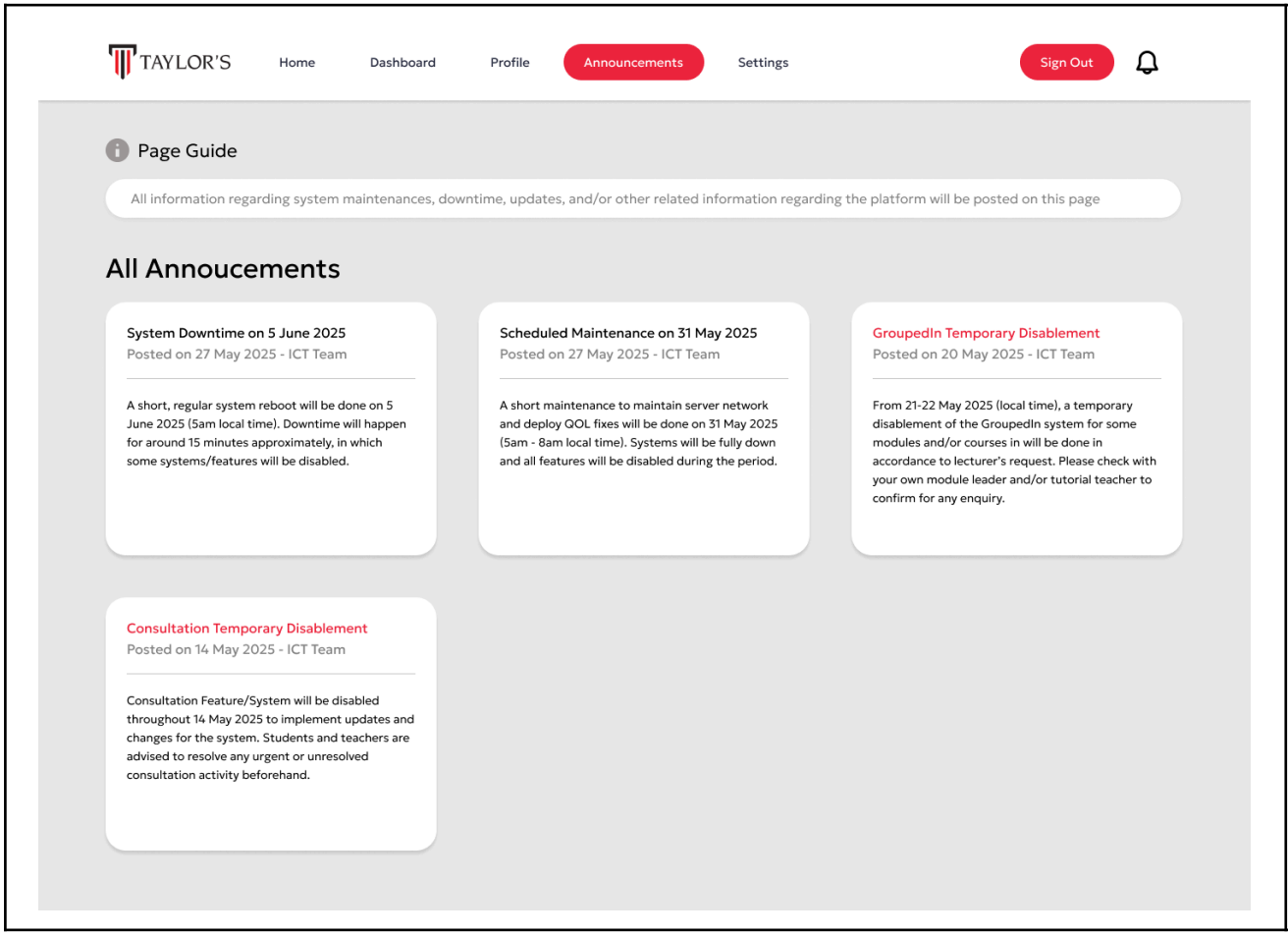
Feature 1: Look at and filter submissions by grading status.
Feature 2: View all submission information, such as notes.
Feature 3: see attached files submitted by students.
Feature 4: Give field to mark.
Feature 5: Place a textbox to reply to the student with a feedback and a submit button.



3.3.2.5 Lecturer Profile Page

Lecturer Profile Page interface places them in a position to be able to see visualization of their Profile Card.

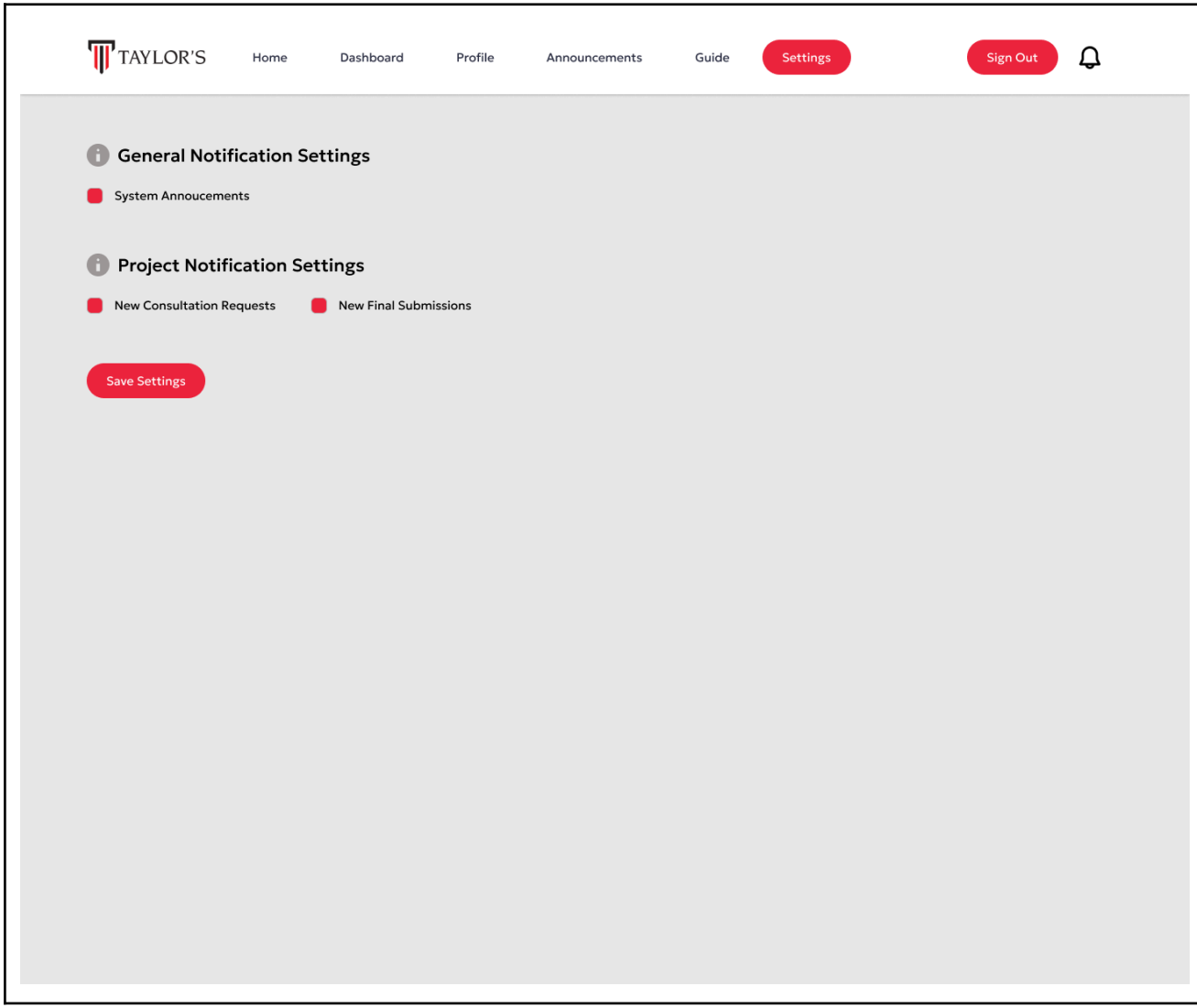
Feature 1: Show name of lecturer, email and title.
Function 2: Provide the ability to change profile settings, i.e., consultation availability.
Feature 3: Show consultation hours with a definite mark of availability.
Feature 4: Adding on to the profile notes space.
Feature 5: Save button, which entails accepting changes that were made to the profile.



3.3.2.6 Lecturer Announcement Page

System Announcements are presented on the Lecturer Announcement Page interface and it displays latest updates.

Feature 1: Show display system maintenance, update and downtime information.
Feature 2: Urgent messages and warnings will be red to pass specific attention.
Feature 3: Display announcements in card format to make them clear.
Feature 4; team-categorized time-stamped announcements.
Feature 5: Viewable combination of announcements grouped by relevance or by date.

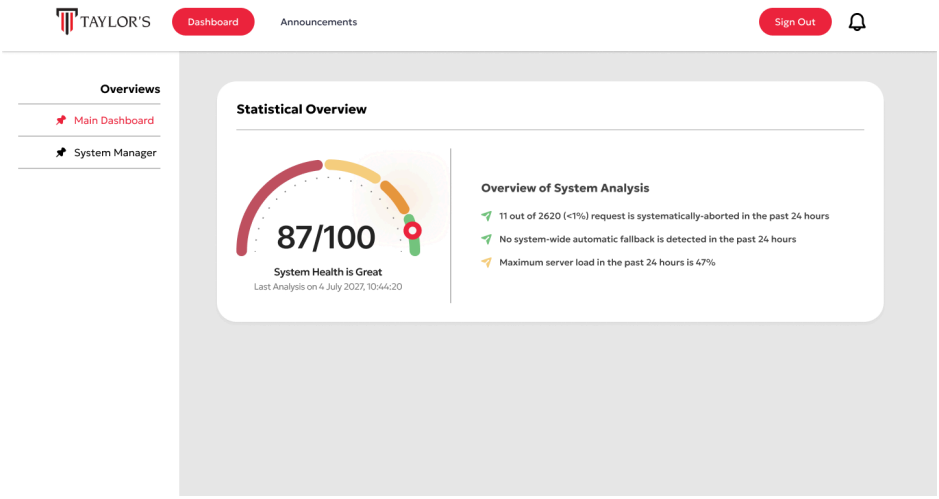


3.3.2.7 Lecturer Settings Page

Lecturer Settings Page interface has the task of displaying the lecturers the settings they can select, namely of notifications.

Feature 1: Switch on or off some general notifications like system announcements.
Feature 2: Switch certain notifications within projects such as new consultation requests.
Feature 3: Ability to receive/not receive new final submissions notifications.
Feature 4: Save button to save custom preferences of notification.
Feature 5: Groups of notifications are built into natural categories (General, Project).

3.3.3 System Guide

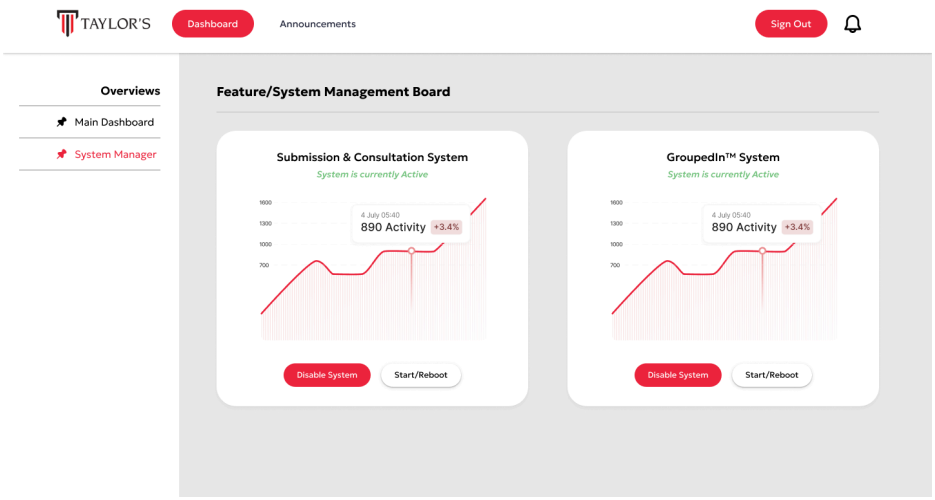


3.3.3.1 System Admin Main Dashboard Page

The interface of System Admin Main Dashboard Page is developed in such a way that it displays statistical analysis and health of system to the admins.

Feature 1: Show system score overall
Displays a total score of the whole system out of 100 having color depiction to indicate the system health status.

Feature 2: Show summarised points
Gives concise details like total number of issues observed, percentages of uptimes and general updates on status of the past 24hrs.



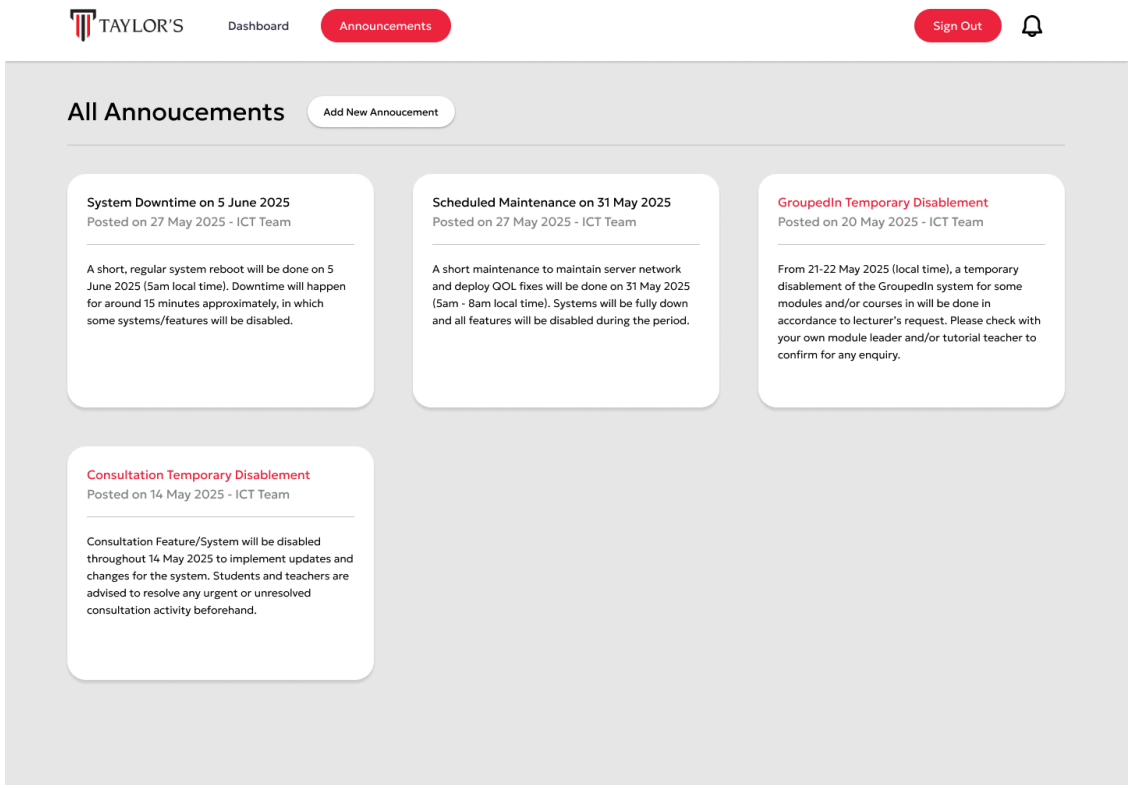
3.3.3.2 System Admin Feature Dashboard Page

The System Admin Feature Dashboard Page interface will be able to display the admins the detailed activity status of each feature as well as allowing the admins to Disable or Reboot/Start a specific System/Feature so that they can perform maintenance.

Feature 1: show graphical display of activities
Each card will present a line chart with trend over time of activity on a certain feature.

Feature 2 : Independent management by feature
Admins are able to track each of the feature/module separately.

Feature 3: Reboot/Disable control buttons
On this panel, the admins have action buttons to allow temporarily disabling or restarting any feature/module.

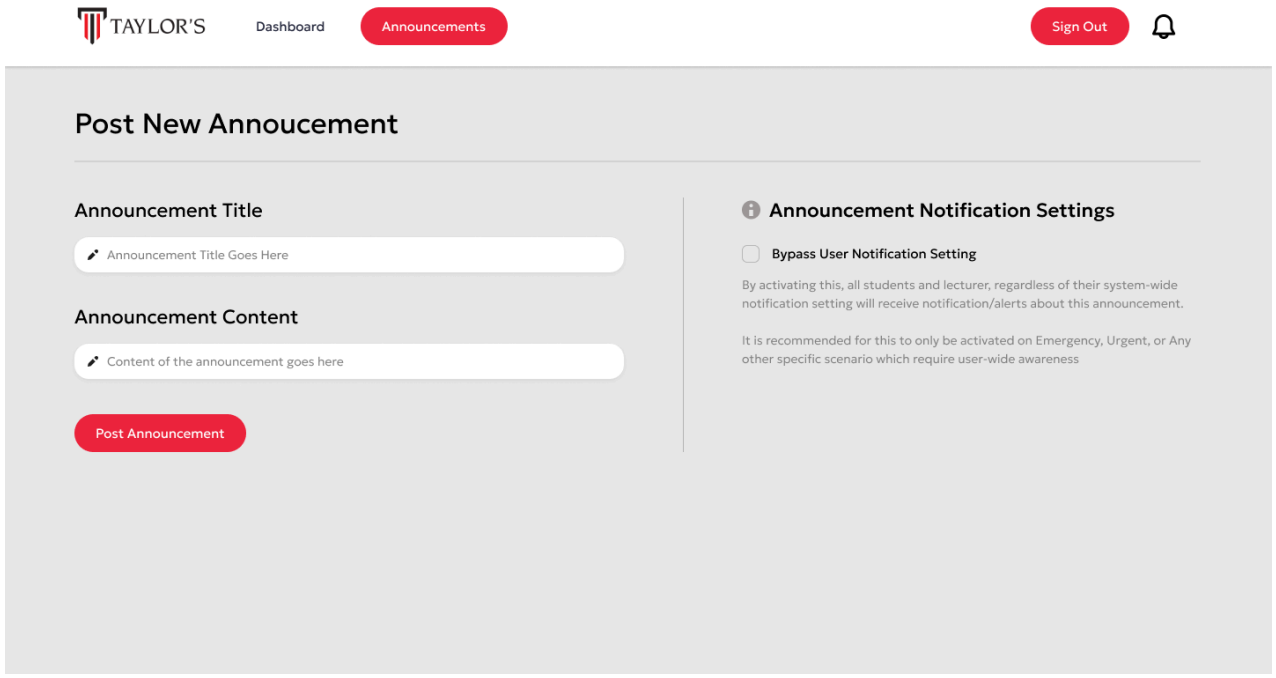


3.3.3.3 System Admin Announcement Page

The interface System Admin Announcement Page is made in such a way that it displays the latest System Announcements.

Feature 1: the card layout.
Every announcement is given in a clear form of cards that display a title date and preview of content.

Feature 2: Time bars The chronology is displayed directly.
The admins can see announcements in sequence of their posting and thereby keep a track on the system updates.



3.3.3.4 System Admin New Announcement Page

The System Admin New Announcement Page interface is created to allow the admins access so that they post a new announcement there.

Feature 1: Title and Content input
In the boxes below the title, admins are able to type down the title and the content of the announcement.

Feature 2: The control of notification
Admins have an option to enable or not to enable a notification through the announcement by choosing a special toggle.

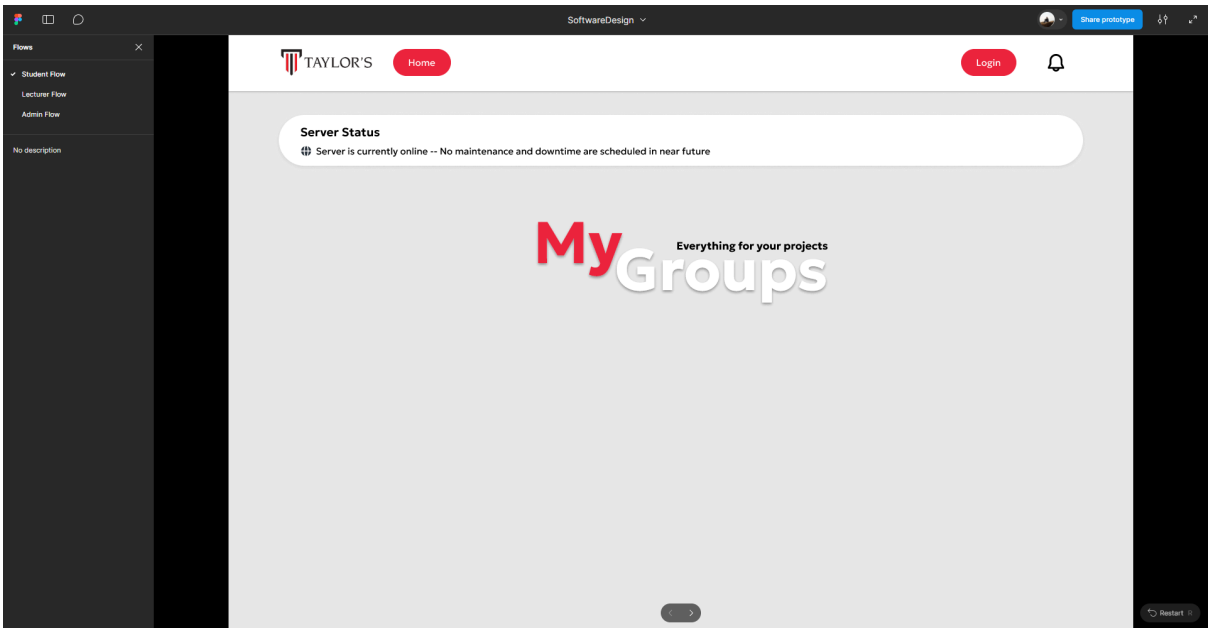
Feature 3: Button submit
Post Announcement saves the announcement made and allows it to be viewed in the system.

4.0 Appendix

Appendix A: Prototype

https://www.figma.com/proto/7CctnSe6aCsE6zHgiVGq4n/SoftwareDesign?page-id=0%3A1&node-id=1-3&p=f&viewport=-134%2C-428%2C0.13&t=GGARCIVt0EuuINAI-1&scaling=min-zoom&content-scaling=fixed&starting-point-node-id=1%3A3&show-proto-sidebar=1

**Due to the limitations of prototyping tools, the user flows for each different user role (Students/Lecturers/Admins) have been separated into 3 sections (flows). Reffering to the picture below, the different flows can be found and accessed by clicking on the different user flow in the right-hand panel.*



Appendix B: Presentation Slides

Presentation Slides

Appendix C: Presentation Video

Presentation Video