

Use Cases

Updated Use Cases

Use Case: Add Entities

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to the "Add Entity" page.
2. System prompts Admin to select the type of entity to add (e.g., student, staff, class, room, course).
3. Admin enters entity details.
4. System updates the database.

Alternate Scenarios:

- 3a. Admin attempts to add an entity that already exists. System displays an error message.
- 3b. Admin selects option to add via csv/xlsx. Admin uploads csv/xlsx file.

Use Case: Generate Timetable

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to the "Generate Timetable" page.
2. System prompts Admin to confirm if they want to generate the timetable.
3. Admin confirms.
4. System generates the timetable.

Use Case: Export Timetable

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to the "Export Timetable" page.
2. System prompts Admin to select the format (e.g., Excel).
3. Admin confirms the export.
4. System generates the timetable file and provides a download link.
5. Admin downloads the file successfully.

Alternate Scenarios:

- 3a. Admin tries to export the timetable before it is generated. System displays a warning message.

Use Case: Manually Modify Timetable

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to the "Edit Timetable" page.
2. System prompts Admin to select a class or time slot to modify.
3. Admin makes necessary adjustments (e.g., change time, location).
4. System saves the changes and updates the timetable.
5. Relevant Students/Staff are notified of changes.

Use Case: Filter and View Timetable

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to the "View Timetable" page.
2. System provides filter options (e.g., by class, teacher, or day).
3. Admin selects filters and applies them.
4. System displays the filtered timetable.

Alternate Scenarios:

- 3a. No results match the selected filters. System displays a message indicating no matches found.

Sprint 1 Use Cases (ARCHIVED)**Use Case: Check Timetable**

Level: User Goal

Primary Actor: Student/Staff

Main Success Scenario:

1. Student/Staff navigates to the timetable page.
2. System filters the master timetable and displays the classes that the Student/Staff is enrolled in or teaching.

Alternate Scenarios:

- 2a. Student/Staff selects a class on the timetable to reveal more details (e.g., location, time, teaching staff).
- 2b. Student/Staff notices an error in the timetable:
Includes: Submit Enquiry.

Use Case: Submit Enquiry

Level: User Goal

Primary Actor: Student/Staff

Main Success Scenario:

1. Student/Staff navigates to the enquiry page.
2. System prompts the user to fill in enquiry details (e.g., subject, message).
3. Student/Staff enters enquiry details.
4. Student/Staff submits the enquiry.
5. System confirms the submission and sends a notification to Admin.

Use Case: Add Class

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to "Add Class" page.
2. System prompts admin to enter class details.
3. Admin enters class details (e.g., course code, semester, instructor, restrictions/preferences for days/times).

repeat steps 2-3 until done

Alternate Scenario:

3a. Master timetable for given semester has already been generated. System attempts to schedule class without altering already scheduled classes.

Use Case: Generate Timetable

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to the "Generate Timetable" page.
2. System prompts Admin to confirm if they want to generate the timetable.
3. Admin confirms.
4. System generates the timetable.
5. System notifies Students/Staff that the timetable has been created.

Use Case: Edit Timetable

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to "Edit Timetable" page.
2. System prompts admin to select a class.
3. Admin edits class details (possibly including date and time).

repeat steps 2-3 until done

4. Relevant Students/Staff are notified of changes.

Use Case: LLM Assistant Information Seeking

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to "AI Assistant" page.
2. Admin enter query to retrieve information on tables from database

3. Admin receive information from database from LLM Assistant

repeat steps 2-3 until done

Alternative Scenario:

2a. Admin upload files (mp3/ txt) to retrieve information

3a. Admin receive error message from gpt due to unvalid query

Use Case: LLM Assistant CRUD operation

Level: User Goal

Primary Actor: Admin

Main Success Scenario:

1. Admin navigates to "AI Assistant" page.
2. Admin enter query to ask for modification in tables in database
3. Admin receive JSON text for the instance(s) to be inserted or updated and text description on the change
4. Admin review the suggestion from AI
5. Admin click on "approve" button to proceed with changes
6. System notify changes has been made

repeat steps 2-6 until done

Alternative Scenario:

2a. Admin upload files (mp3/ txt)

3a. Admin receive error message from gpt due to unvalid query

5a. Admin click on "reject" button to reject changes

5b Admin start another query which will automatically delete the change cache