

# User Acceptance Testing

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## Plans

**Objective:** Ensure the timetable system meets the end-users' needs and is ready for deployment.

**Scope:**

- Involve end-users (such as administrators) to test the system in a real-world scenario.
- Collect feedback on usability, performance, and overall satisfaction.
- Verify that the system meets all business requirements.

**Test Cases:**

- **Scenario-Based Testing:** Have users create timetables based on different scenarios to see if the system handles their needs.
- **Feedback Collection:** Gather and analyze user feedback for any issues or improvements.
- **Final Validation:** Ensure that all business requirements have been met and that users are satisfied with the system's performance and usability.


**Tools:**

- Provide users with a test environment where they can interact with the system.
- Use survey tools or direct interviews to gather feedback.

**Acceptance Criteria:** Refer to Jira.

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## Progress + Results

The user experience tests are done during our last Zoom meeting with the client on 10th Oct 2024. We guided the client to perform a series of tasks (documented below) using our Timetabling for VIT website (  [Timetabling for VIT](#) ) and collected feedbacks from the client.

The meeting notes: [📅 2024-10-10 Client Meeting](#)

**Briefs on Testing Scenarios.**

1. Upload student enrolment Excel file:
  - a. Scenario: A student service team member upload existing student enrolment Excel file to our website.
  - b. Objective: The process of uploading student enrolment Excel file should be easy to navigate.
2. Edit Unit information:
  - a. Scenario: A student service team member edits unit's lecture duration, tutorial duration, or lab duration in the unit information page.
  - b. Objective: The process of editing unit information should be intuitive and straight-forward.
3. Add/Delete/Edit Room information:
  - a. Scenario: A student service team member adds/deletes/edits room's campus affiliation, building affiliation, room code, room capacity, if a room is a lab room, and if a room is available in the room information page.
  - b. Objective: The process of adding/deleting/editing room information should be intuitive and straight-forward.
4. Generate Timetable:
  - a. Scenario: After performing scenario 1, 2, 3, the student service team member can generate timetable by clicking the "GENERATE TIMEBALE" button within reasonable amount of time.
  - b. Objective: The process of generating timetable should be simple to navigate.

5. Download Timetable:

- a. Scenario: After a timetable being generated, the student service team member can download timetable by clicking the "DOWNLOAD TIMETABLE" button for each campus.
- b. Objective: The process of downloading timetable should be easy to navigate.

6. Drag-and-Drop Gantt-Chart for Modifying Unit Scheduling:

- a. Scenario: After a timetable being generated, the student service team member can see the corresponding Gantt-Chart presentation of the timetable by clicking each campus names. Then, with left-click of the mouse, and drag-and-drop, they can modify the selected unit. By click "SAVE CHANGES" button, all modified changes persists.
- b. Objective: The Gantt-Chart presentation should be intuitive and easy to read; The drag-and-drop function should be easy to use.

**Summary Table with the Client Feedback:**

Task/Scenario	Completion or Not	Avg Time	Feedback
Upload student enrolment Excel file	Yes	10s	Positive. The process is intuitive and easy to use.
Edit Unit information	Yes	5s	Positive. The process is simple and straight-forward.
Add/Delete/Edit Room information	Yes	5s	Positive. The process is simple and straight-forward.
Generate Timetable	Yes	2mins	Timetable is generated within reasonable amount of time.
Download Timetable	Yes	10s	Positive. The design is easy to use and satisfies the requirements.
Drag-and-Drop Gantt-Chart for Modifying Unit Scheduling	Yes	10s	The design is easy to use and satisfies the requirements.

**Additional Feedback:**

The client is happy with our current product in general. However, he raise a few additional requirements that we can choose to implement or not depending on our time limit for this IT project subject. These addition requirements include:

1. Adding semester start and end date for each semester's time table.
2. Consider the situation that two semesters overlap and adjust the scheduling mechanism accordingly.  
Note: Due to our time constraint for this subject, we decide not to implement this further requirement during the last week of the semester. However, these requirements are possible as future extension/modification of our project.

At the end of the meeting, the client express interest for *further meeting and collaboration*.