



README

MED-FI PROTOTYPE

Group 3

Nguyen Gia Bao | Nguyen Do Hoang Minh | Nguyen Huu Phong

[MeFiPrototype](#)

1 TARGET AUDIENCE

This prototype is designed specifically for HUST students who need an efficient and user-friendly tool for planning and organizing their course schedules before registration.

2 DESIGN TOOLS

Figma was the main design tool employed in the creation of this prototype for Med-Fi. Figma is a powerful, online tool that allows team members to collaborate in real-time in bringing ideas to life through shared feedback and quick revisions. Its interactive features allow us to create clickable prototypes that simulate how users would interact with the application, providing valuable insights into the user flow and overall experience. It is also super friendly for end-users, allowing even those with non-advanced design skills to make functional prototypes and designs. Also, being a cloud tool, Figma can be accessed from any location, meaning that team members working remotely will be able to work together, keeping alignment across different locations.

However, Figma does have some drawbacks. While great for interactive prototyping, it cannot fully simulate complex user flows or more advanced features, such as dynamic data updates or backend interactions. In other words, some of the more advanced behaviors of an app cannot be fully replicated in Figma. Also, performance can be an issue when dealing with large, complex files; the app may slow down, especially with high-fidelity prototypes. Lastly, Figma prototypes are not fully realistic because they do not really simulate the

complete experience of using a live app-mostly system behavior, data integration, and live interactions.

3 OPERATING INSTRUCTIONS

3.1 Task 1: Export the personalized timetable to a PDF

Go to the Dashboard: On the main page (also referred to as the schedule page), click on the "Export" tab to be redirected to the export page.

Export Page Design: The export page is designed to resemble a corkboard, with various images that act as buttons. These images may contain easter eggs (currently just an idea, not yet implemented in the prototype):

- Clicking on HUST News will take you to the official HUST news page.
- Clicking on the ETE16 avatar will redirect you to the Facebook page of the department.
- Clicking on the group member faces will open their personal Facebook profiles.
- And more to come!

Timetable Preview: Click on the image of the timetable in the center of the page to proceed. This will open a full-screen preview of your timetable.

Exit Preview: To exit the preview, click anywhere on the background of the screen.

Available Options: Below the timetable preview, three options are available:

- Download: Saves the timetable as a PDF file on your device.
- Print: Connects to a printer and allows you to print the timetable directly.
- Send to My Email: Sends the PDF version of the timetable to your email.

3.2 Task 2: View the campus map with class locations

Go to the Dashboard: On the main page (schedule page), click on the "Map" tab to be redirected to the campus map page.

Select the Day: In the "Day Check" section, select the date for which you want to view the class locations.

Select the Class: In the "Class Course Detail" section, choose the class you want to display on the map.

View Class Locations: Once a class is selected, its location will be marked and displayed on the map.

Estimate Moving Time: If there are classes scheduled on the same day, the "Moving Time Estimate" section will show the estimated time to move between classes.

Alternatively, users may select two locations to estimate the moving time (this feature is currently not implemented but may be included in future updates).

3.3 Task 3: Automatically generate and view a personalized timetable

Login to the Website: Upon accessing the website, you'll be directed to the simple login page, where you'll connect using your school email (this is the planned feature).

Dashboard (Main Page): Once logged in, you'll land on the Dashboard (main page), also known as the Schedule Page. This is where most of your work will take place. At the top of the page, you'll see the header with the logo and tabs such as "Schedule" (links to the main page), "Export" (links to the page to export the timetable), "Map" (links to the campus map), and "Share" (links to the page for sharing the timetable with friends).

Upload Timetable: On the left side under the logo, you'll see a button and an empty space to click on and upload the school's timetable as an Excel file to start working. Below that, you can select the study program (e.g., Standard, Elitech, SIE, or All). Further down, there's a search bar to search for courses by name or course code.

Select Courses: After performing a successful search, the relevant courses will appear in the "Course Selected" column on the left side of the screen. Click on any course to see detailed information about its classes in the "Class Course Detail" column right below it. You can tick the classes you want, and they will be immediately displayed on the timetable. This is the manual timetable creation process.

Save Your Timetable: Once you have selected your classes, you can save the timetable by clicking the "Save" button at the top right of the timetable. After saving, your timetable will be stored in an album of timetables that you can access by clicking on your profile picture/name at the top right corner of the screen. (This Album feature is still in development and is an idea in progress.)

Auto-Generate Timetable: If you prefer not to manually arrange the classes, you can select courses from the Course Selected column. Then, choose the days you prefer to be absent by ticking the relevant boxes in the "Preference Absent" section, which is located in the middle of the screen, under the page tabs. This section includes checkboxes for each day (e.g., Monday AM, Monday PM, etc.). Once you've selected the days you want to be absent, click the "Auto Generate" button, located just above the "Save Timetable" button, to automatically generate your timetable.

Save the Generated Timetable: After reviewing your auto-generated timetable, make sure to save it by clicking the "Save" button when you're satisfied with the results.

4 WIZARD OF OZ APPROACH

In our Med-Fi prototype, we've used the Wizard of Oz technique to mock up some features that we haven't yet completed. The Course Search feature is hand-simulated. In fact, the search feature isn't implemented at all, but we pretend it is when the users submit a query and make it look like a real working search. Timetable Generation: We arrange courses manually in order to simulate the auto-generation of timetables, although the auto-generation timetable algorithm has not been implemented yet. Map Functionality: Although the map is incomplete, we simulate the location-based action—like showing the location of classrooms—manually by selecting from the predefined points on the map. Lastly, the Save/Load Timetable feature is also simulated manually. Users trying to save or load their timetables—it gets emulated without actual backend storage, simulating the feature for the user, although it is not fully implemented.

5 HARD CODED ITEMS

There are also some hard-coded items in the Med-Fi prototype to represent functionality that can't dynamically be adjusted, such as the Predefined Timetable Layout. This is not dynamic either; it contains pre-fixed courses and structure of schedule. Users have the functionality to only see the time table; however, nothing can be dynamic or adjustable on the schedule. Similarly, with the Fixed Course List, there might be a hardcoded list of courses where dynamic updates or tailored choices do not exist, implying the course list offered is irrelevant to the user. In this view, Static Preferences may even have days and time selection of the course hardcoded onto the interface; that is, a selection of day and times will be really very restricted and does not offer any user choice in their dynamical setting. Lastly, Map Display most likely displays static locations, such as buildings on campus, but doesn't change dynamically based on user input or the courses chosen.

6 LIMITATIONS

Though the Med-Fi prototype is designed to be highly interactive and user-friendly, it has a few limitations. To begin with, there are no specific user profiles: this prototype does not contain personalized user data or profiles; hence, it cannot fully offer a tailor-made experience based on the preferences or behaviors of each user. Besides, the prototype has incomplete button implementation. Some of the buttons are still not fully functional, which limits the interactions users can engage in while testing and exploring. Another limitation is related to the search and import features. The search and import course functions are not fully developed, so users cannot search for or import courses into their timetable, which reduces the functionality of the app at this stage. Further, the map functionality is incomplete. Currently, the map does not display all locations or relevant features, so users cannot explore the campus in its entirety or view all locations related to their timetable.

Finally, the current prototype has limited testing scenarios; it does not simulate all real-world interactions or complex user flows, which means that certain behaviors cannot be tested in-depth, and only basic flows can be explored.