



# UITs

*Future will be better than the past*

University of Information Technology & Sciences

An initiative of **PHP** Family

## Web Application Design Lab

### Project Report

Course Title : Web Application Design Lab

Course Code : CSE0613124

Project Title : “Academic Task Scheduler”

Submitted to:

Teacher's Name	Designation
S. M. Zafrul Islam	Lecturer
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Submitted by:

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Semester : Spring, 2025

Batch : 55

Department : CSE

Date of Submission: 25.05.25

## Objectives:

The objective of this Web Application Design Lab project is to simplify task management for students.

## Introduction:

By the definition of “Academic Scheduling”:

“Academic scheduling can be defined as the process of creating a timetable for academic activities within educational institutions. It involves scheduling classes, exams, and other events to ensure that resources are utilized effectively and that students can attend their desired courses without conflicts.”

I was inspired to make this project titled “**Academic Scheduler**” or “**oUITS Scheduler**” (short for online UITS Scheduler) when I saw the common issue among students maintaining their academic activities. Especially before important exams like term finals and mid term examinations when miscellaneous tasks like Projects, Presentations, and Assignments naturally pile up, students struggle to manage their time properly and sometimes end up with poor performance.

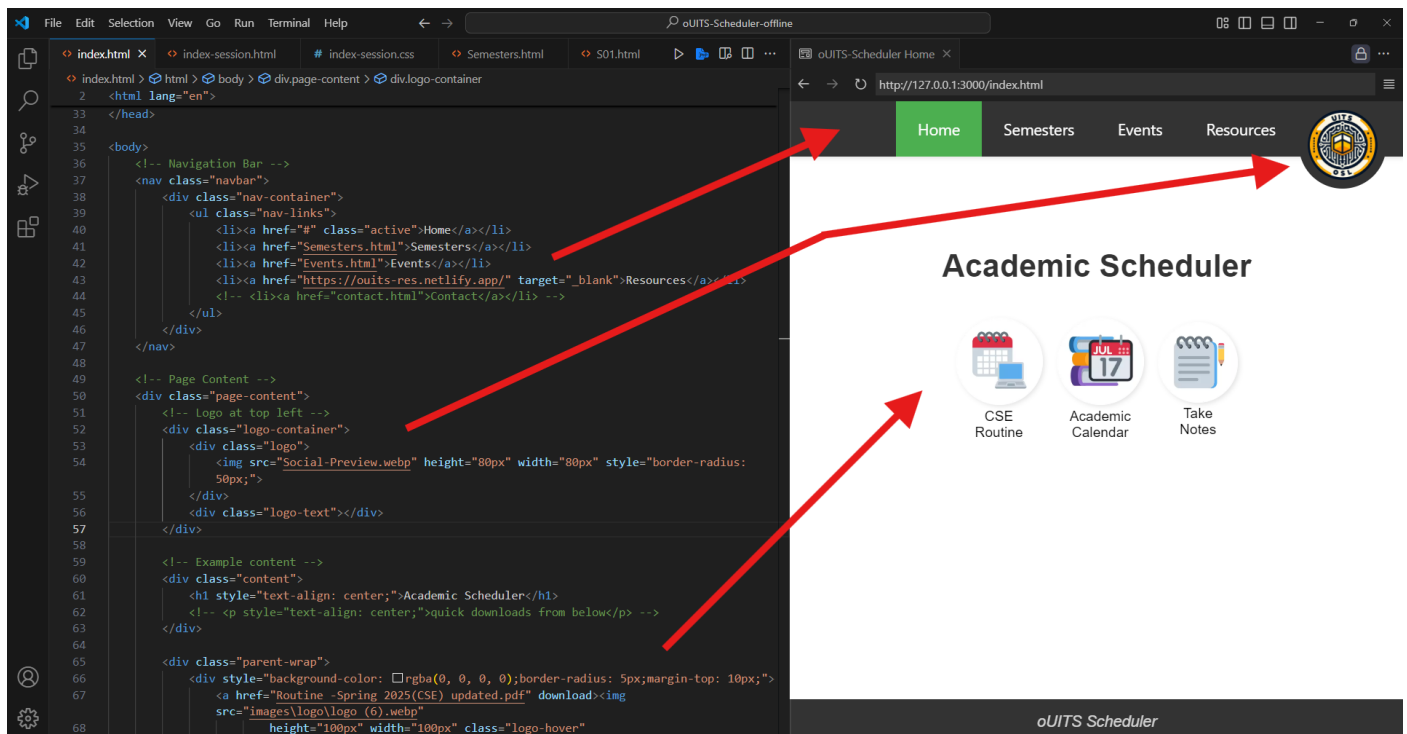
My project aims to **organize academic tasks centrally**, so it is updated regularly and is relevant to every student.

## Experimental Setup:

For this project, I used HTML and raw CSS. The amount of JavaScript is negligible and are meant to be implemented in the future when I fully master them. I mostly coded on Visual Studio Code (with Live Preview extension). For storing the codes, I used a GitHub repository (Link: [bltranger/oUITS-Scheduler-offline: for WAD Lab project](https://github.com/bltranger/oUITS-Scheduler-offline) ) and GitHub Desktop as Git Client on Windows.

## Code & Output:

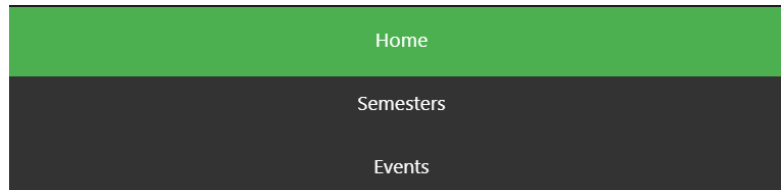
These are some key portions of the source code and snapshots of the output:



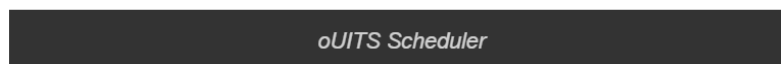
This is the home page (index.html ) of my project. I have highlighted 3 sections with red colored arrows. From top to bottom,

- First arrow highlights the Top navigation bar that is used to browse between multiple pages. This bar remains constant throughout the website and changes the “green highlighted” button depending on the current page.
- Second arrow is for the Website logo that reads “UITS-OSL” ( OSL for “Open-Source Library” ). It was set to be in a fixed position using CSS property “position: fixed;” and made to look like being blended with the **Top Navigation bar** using “border: 50px solid #333333;”. Similar properties were used for the bottom bar that shows the Website Title “oUITS Scheduler”.
- Third arrow points to some **Downloadable files** important for a regular University Student. The icons or logos are clickable and upon click, it prompts a download of the corresponding file. There is also a Note Taking section linked here, where students can make quick notes and export them as .txt files. (it’s part of another project, where I was figuring out the difference between browser’s “LocalStorage” and “SessionStorage” using JavaScript).

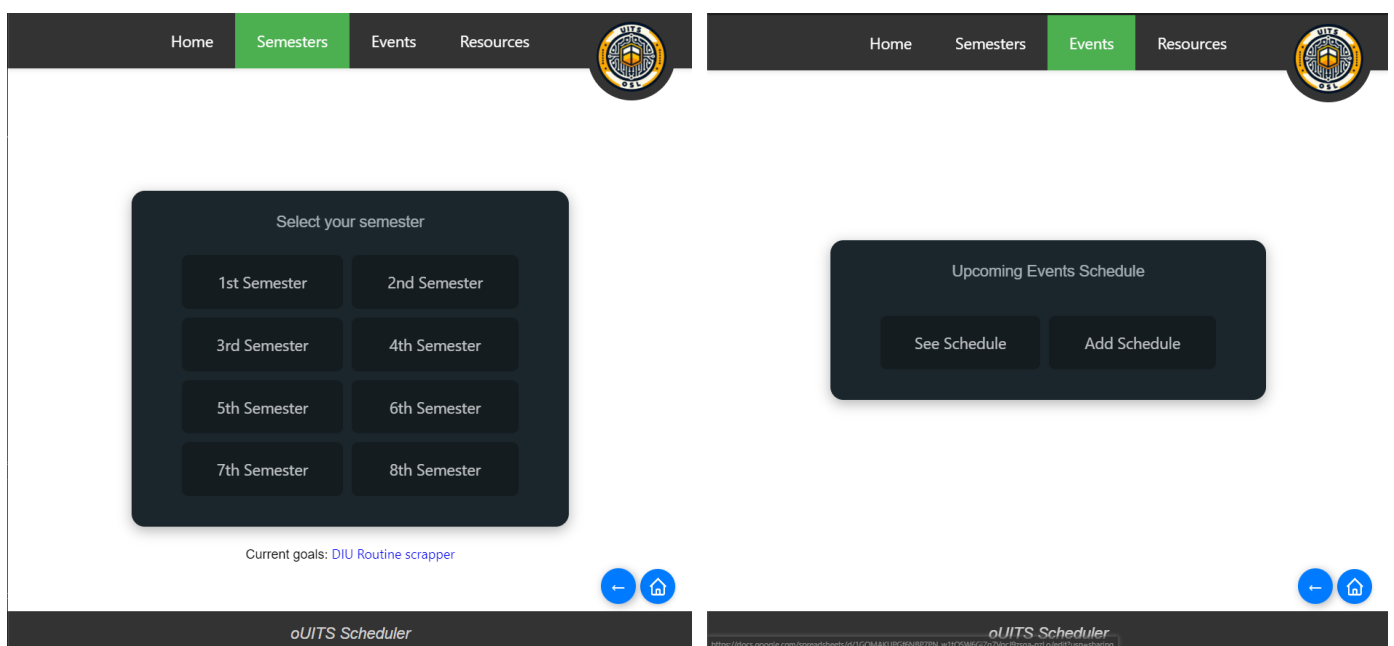
The website has a responsive design implemented using **Media Queries and Flex CSS Properties**. It should look like below is the screen width is less than a certain value (for mobile view).



## Academic Scheduler



The Semester Page and Events Page are similarly made as the Home page and connected using **HTML relative links**.



Each semester folder (from 1<sup>st</sup> Semester to 8<sup>th</sup> Semester) contains 2 sections:

- Browsing Schedules
- Course List

The screenshot displays a web browser window showing the 'oUIITS Scheduler' interface. The browser's address bar shows the URL 'http://127.0.0.1:3000/page-depth-02/S01.html'. The page has a dark theme and a navigation bar with links: Home, Semesters, Events, and Resources. The main content area is titled '1st Semester Schedule' and contains two sections: 'Browse Schedule' and 'Course List'. The 'Browse Schedule' section has a button labeled 'Browse Schedule'. The 'Course List' section displays a table of courses for the 1st semester.

Below the browser window, the corresponding HTML code is shown in a code editor. The code is for 'S01.html' and includes the following elements:

- A link to the 'Browse Schedule' button: `<a href='../forms/form_with_full_page_results.html' class='cell-link'>Browse Schedule</a>`
- A table for the 'Course List' for the 1st semester:

1st Semester		
CSE0613111	Structured Programming Language	3
CSE0613112	Structured Programming Language Lab	1.5
MATH0541111	Differential and Integral Calculus	3
PHY0533111	Engineering Physics	3
PHY0533112	Engineering Physics Lab	1
CHEM0531111	Engineering Chemistry	3
CEED0232111	Communicative English	3
CEED0232112	Communicative English Lab	1

With the first arrow, I pointed to the Browse Schedules button that links to a form input page. And just below this button is the Courses List that shows the students their respective courses in that semester.

Clicking on Browse Schedule should take the student to a form input page where they can either see the current schedules by clicking **“View Datasheet”** or submit a new one. New submissions will be listed in the Datasheet using JavaScript. Both the form input page and the Datasheet page exist in the same HTML page.

## Student Schedules

Section ?

-- Select a Section --

Group ?

-- Select a Group --

Type ?

-- Select a Type --

Due Date ?

mm/dd/yyyy

Course ?

-- Select a Course --

Details?  
(add Instructions/Syllabus/Topics)

Submit View Datasheet

```
Forms > form_with_full_page_results.html > html > body > div.container > a.home-button
  2 <html lang="en">
256 <body>
258   <div class="container">
261     <a href="../../../index.html" class="home-button">
268     </a>
269
270     <!-- BACK BUTTON -->
271
272     <a href="javascript:history.back()" class="back-icon" style="box-sizing:content-box;"&#8592;</a>
273
274     <h1>Student Schedules</h1>
275     <form id="contactForm">
276
277       <div class="form-group">
278         <label for="section">Section 2</label>
279         <select id="section" name="section" required>
281           <option value=""-- Select a Subject --</option>
282           <option value="all">All Section</option>
283           <option value="A">Section A</option>
284           <option value="B">Section B</option>
285           <option value="C">Section C</option>
286         </select>
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```

[illegible]

```

Forms > > form_with_full_page_results.html > <html > <body > <div.container > > <h1>home-button
2 <html lang="en">
256 <body>
258 <div class="container">
348 </div>
349
350 <div class="results-container" id="resultsContainer">
351 <div class="results-header">
352 <!-- <h1>Form Submission Results</h1> -->
353 <div class="button-group">
354 <button class="clear-btn" id="clearButton">Clear Data</button>
355 <button class="back-btn" id="backButton">Back to Form</button>
356 </div>
357 </div>
358
359 <div class="results-content" id="resultsContent">
360 <div class="table-header">Current Schedules</div>
361 <table class="datasheet-table" id="datasheetTable">
362 <thead>
363 <tr id="tableHeader">
364 <th>No.</th>
365 <th>Section</th>
366 <th>Group</th>
367 <th>Type</th>
368 <th>Due Date</th>
369 <th>Course</th>
370 <th>Details</th>
371 <!-- <th>Date</th>
372 <th>Time</th -->
373 </tr>
374 </thead>
375 <tbody id="tableBody">
376 <!-- Results will be inserted here by JavaScript -->
377 </tbody>
378 </table>
379 </div>
380 </div>
381
382 <script>
383 document.addEventListener("DOMContentLoaded", function () {
384 const contactForm = document.getElementById("contactForm");
385 const resultsContainer = document.getElementById("resultsContainer");
386 const tableBody = document.getElementById("tableBody");
387 const backButton = document.getElementById("backButton");
388 const clearButton = document.getElementById("clearButton");
389 const viewDatasheetBtn = document.getElementById("viewDatasheetBtn");
390
391 let submissionCount = 0;
392

```

Here's a demo of the form input page and the corresponding data stored in the Datasheet:

### Student Schedules

Section ?

Section B

Group ?

-- Select a Group --

Type ?

Presentation

Due Date ?

05/25/2025

Course ?

Demo Course 3

Details?  
(add Instructions/Syllabus/Topics)

demo presentation

Submit View Datasheet

Clear Data

Back to Form

#### Current Schedules

NO.	SECTION	GROUP	TYPE	DUE DATE	COURSE	DETAILS
1	all	A1	notice	2025-05-30	course-1	demo entry
2	A	A1	assignment	2025-05-28	course-5	demo assignment
3	B	Not provided	presentation	2025-05-25	course-3	demo presentation

## Discussion:

The result of my project satisfies me greatly. I regularly use the features of this website and encourage my classmates to do so as well. This has increased my productivity and improved my interaction with my classmates through shared schedules.

I haven't faced many issues with the project's creation since **it's mostly basic HTML and CSS**. But I do recall some notable ones:

- Initially I kept all the features in the Home page (in the past, the Semester page and Events page did not exist). So, I had to figure out a way to organize things by using the Navigation Bar layout's idea I found online.
- The **website logo location** and design felt like a UI/UX design challenge to me. Wherever I decided to put the logo, I wasn't happy with it. My classmates and seniors helped me out with ideas, and that resulted in the current website design.
- The form input page was a grave issue to my memory. Since it's a **front-end project**, Form inputs cannot be stored or viewed using any back-end solutions (like PHP or Node.js). I also wasn't good with JavaScript so I could not create the result sheet myself. Therefore, I had to use AI tools like Claude to help me make a full-page Datasheet to view the form input results.

The purpose of this project is highly on **real life application**, and I indeed have faced issues regarding that. Since it's not an official project from the university, students are not interested in using it as regularly as I do. And I have had a hard time convincing them. Therefore, I expect that my faculties would be kind enough to help me out if they feel the same about this project's prospect in helping other students.

## Conclusion:

An Academic Scheduler seeks to improve student performance by semi-managing their tasks as a shared goal. With this project, I tried to do exactly that.

In future I wish to implement a Database to replace the form inputs. With this, I can also implement **Student Login Feature** to ensure that only the students of UITS get access to the Schedules.

I believe that there is immense potential for this project to be helpful to every student of UITS. But the lack of interest from the students and faculties alike in adapting to new ways of academics are quite a hurdle. I hope that in time my concurrent students will realize it as I do and find similar and novel ways to improve their own academic careers.