REPORT

ON

Online Schedule Tracker

Submitted for the partial fulfilment for the award of the degree of

BACHELORS OF COMPUTER APPLICATION

Banasthali Vidyapith

Department of Computer Science
Banasthali Vidyapith
Banasthali – 304022
Session – 2022-2023

Submitted by: -

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Under the supervision of

Mr. Chhatrapati Yadav

Certificate

Certified that Disha Jain, Malvika Khatoria, Neha Yadav, Riddhika Mathur has carried out the project work titled **"Online Schedule Tracker"** for the award of the BCA from Banasthali Vidyapith under my supervision. The thesis embodies result of original work and studies carried out by Student herself and the contents of the thesis do not form the basis for the award of any other degree to the candidate or to anybody else.

Name of Supervisor: Mr. Chhatrapati Yadav

Designation: Professor

Place: Banasthali Vidyapith

Date: 28-01-2023

DECLARATION

I hereby declare that the project report entitled "Online Schedule Tracker" was prepared by Disha Jain, Malvika Khatoria, Neha Yadav, Riddhika Mathur. During the year 2023 and was submitted to the Banasthali University, in partial fulfilment of the requirements for the award of the degree in bachelors in computer application. I also declare that this project report is original and genuine and it has not been submitted to any other university for the award of any degree, diploma or other similar titles or purposes.

Date: 20/04/2022 Candidate Signature

Place: Banasthali, Newai Disha Jain, Malvika Khatoria

Neha Yadav, Riddhika Mathur

ACKNOWLEDGEMENT

We take this opportunity to express our gratitude towards all those people who in various ways have helped in successful completion of our project. We express gratitude to our project guide Mr. Chhatrapati Yadav whose inspiration, suggestion and invaluable guidance enabled us to develop the present software. We hereby offer our sincere compliment to all our friends for their useful suggestion and cooperation.

Last but not the least; we owe our debtless toward our revered parents for their moral support and constant encouragement that has made it possible for us to attain this usage this stage of academic achievement in our life.

Team Members: -

Disha Jain: 2012337

Malvika Khatoria: 2012354

Neha Yadav: 2012361

Riddhika Mathur: 2012372

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Chapter 1

Introduction

In today's date, attendance is one of the challenges that a college student face in his/her college life. And it's very hard for a student to keep a track on their daily tasks. In our website, students will be able to manage their tasks and activities in a laydown time period as well as students can also keep track of their attendance. Advantage of **SCHEDULE TRACKER** is that the students can handle their day-to-day workload. Timings of station meta can help to schedule our activities accordingly as per our train timings.

1.1 Purpose

To build an online tracking website which will provide a student-friendly interface for the students to meet their daily piece of work.

The online schedule tracker shall accomplish the following as way of achieving the major goals:

- To build a handy website, where the student will be able to manage their schedule according to their needs as there will be a reminder feature.
- Attendance tracking is important as universities like Banasthali have a minimum criterion of 70% of the total attendance. It will calculate the percentage of the total attended lectures and will give students the actual percentage of their attendance. This will give students an idea that how many leaves they can take.
- And the considerable matter in question is that sometimes wrong marking of attendance happens due to loud voices during the attendance.
- The schedule of station meta provides the schedule of trains which arrives at Newai station with their arrival time.

1.2 Scope

This system is designed as an online web-based application which shall be accessed by any device, a computer, tablet, iPad, iPhone, mobile phone or PDAs.

Using this online schedule tracking system, students will be able to keep a track of their attendance as well as manage their schedule according to the activities and arrival of station Meta. It will help save time and offer a good management system. This system will replace the manual updation of schedules and will provide an efficient way of keeping a track record of their attendance.

The scope of this system to build a student-friendly tracking website, where student will be able to keep a trail of attendance, Meta and their daily schedules. By using this online Tracking System it will be easy for students to keep a track on their daily attendance and schedule. By using this online tracking system, the manual work will be reduced.

1.3 Definitions, Acronyms and Abbreviations

WWW: World Wide Web

RAM: Random Access Memory

HDD: Hard Disc Drive

OS: Operating System

1.4 Overview

Electronic system especially those based on the internet have become popular by providing platforms to manage things. In fact, it can be argued that the schedule management based electronic system best represent the changes of handily done work and storage methods. Schedule management system or we can say Schedule tracking system allows students to check and manage their attendance as well as get the schedule they entered or access the schedule of Meta anytime anywhere.

In general, this online schedule tracking and management system will provide students to manage and keep a track on their attendance while regularly doing their stuff. It will be easier to manage online instead of keeping a record manually and carrying paper everywhere.

The Schedule system runs on a set of host computers connected via a network. Students access the Schedule system from one of these computers. The system allows students to maintain their day-to-day chores.

Chapter 2

Overall description

2.1. Product Perspective

This product is an old electronic product. It is not a component of a larger system. The online Schedule management system will interact with student by making a unique identification Id. And by that student can maintain the schedules and manage the attendance as well.

2.1.1. Product Functions

The following list of function descriptions explains the major features of the online schedule system.

- Account Registration: The registration function shall allow users to create secure accounts. The account will track the user's name, email id, username and password. This provides security to the account member by setting up an account that is password protected. This also offers convenience so the user only has to enter the information listed above once and then it is stored in the account.

- Account Login: The account login function shall allow account members to enter their username and password. Once verified, users will be able to access schedule history, attendance calculation and scheduled work!

2.2 General Interface

2.2.1 Hardware interface

SERVER SIDE

●operating system: any desktop/laptop system with above

Configuration or higher level

●RAM: 4GB

●HDD: 500GB

●System processor: corei3/i5/i7, Ryzen 5

●Router for internet connection

CLIENT SIDE

●operating system: Window 2000 and above

●RAM: 2GB

●System processor: corei3/i5/i7, Ryzen 5

●Router for internet connection

2.2.2. Software interface

This project is application that is developed using high level language. The following technologies are used:

- Front end – HTML, CSS
- Back end – JAVASCRIPT AND PHP
- Operating system – window 2000 and above

2.2.3. Communication Interface

The requirements associated with any communication function required by this product, including e-mail, web browser, network server communication protocols, electronic forms, and so on. Communication standards that will be used are FTP or HTTP. Communication security or encryption issue will handle by using PHP.

2.3. User Characteristics

Users of the website must possess minimal interested items which would be he/she wants to purchase. Users of the website must know how to navigate in a website.

2.4. General Constraints

The constraints on the services and functions of the system are as follows.

- The server application will be available 24×7.
- External user will not be able to gain full functionality of the website.

2.5. Technology used

Front End: HTML, CSS

Back End: JAVASCRIPT, CSS

Chapter 3

Specific requirements

3.1 Functional requirements

Functional requirements for the online Schedule management system have developed to make sure that functionalities and functional aspects of system are met.

Login:

System will allow user to login.
System will verify user name and password.
System will not allow user to login with invalid user name or password. System will be able to remember user name and password.

Registration or create account:

System will allow users to create account.

Browsing and entering Schedule:

System will allow user to enter details in schedule and get details about Meta timings.
System shall display the result.

Attendance:

System will allow user to mark their attendance as well as calculate the percentage of attendance.
System shall display the result.

1. Student login:

The user interface and source code for requirement have been finished. The unit testing and functional testing activities need to be done. The users with the user type as student will be able to log in to system.

2. User registration:

In case of absence of user id and password, the user will be able to register themselves in system. The user interface and the source code for requirement have to be finished. This will allow user to register with online schedule management system

5. Application maintenance:

The installation of the updates and patches along with the maintenance of the website. It is an ongoing requirement that will continue even after the release of website.
To allow the admin to install updates and patches for site and maintain the quality of the web site.
The admin will manage the application quality.

3.2 Non – functional requirements

3.2.1 Availability:

The availability of this software is up to internet connection of client. Since this is client server related software shall be attainable all time. User should have account to enter system; if user does not have an account, then user can only see information which will display on homepage of website.

3.2.2 Security:

1. The website shall offer secure login option to users to avoid unauthorized access to system and information,
2. Advanced access control shall be included in site,
3. Advanced encryption algorithms must be integrated in site to avoid misuse of data sets,
4. Technical controls, such as anti-denial, and intrusion detection tools shall be integrated with site,

3.2.3 Reliability:

The website shall provide the users with valid information at all times.

3.2.4 Portability:

The system is developed using HTML, CSS, JAVASCRIPT, PHP which provides framework for developing online schedule tracking system.

3.2.5 Maintainability:

A backup file is maintained so that in case of system crash, the data will not be affected.

SDS (Software development specification)

Table of contents-:

1. Introduction

1.1 Purpose

The SDS shows how software system will be structured to satisfy the requirements identified in the SRS. It is translation of requirements into a description of software structure, software components, interfaces and data necessary for the implementation phase. Thus, SDS is blue print for the implementation activity.

1.2 Scope

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In general, this online schedule tracking and management system will provide students to manage and keep a track on their attendance while regularly doing their stuff. It will be easier to manage online instead of keeping a record manually and carrying paper everywhere.

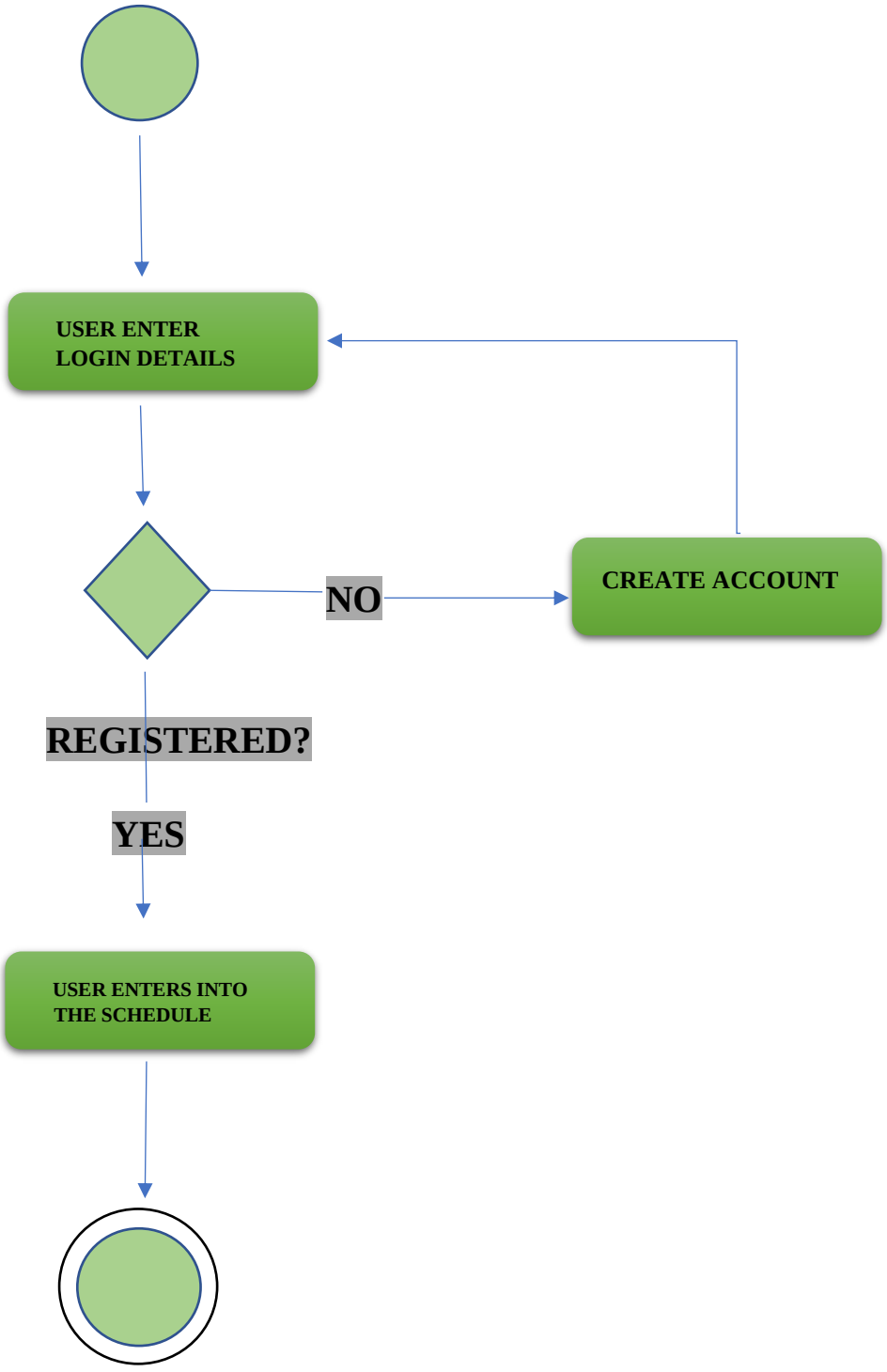
The schedule system runs on a set of host computers connected via a network. Clients access the Schedule system from one of these computers. The system allows students to maintain their day-to-day chores.

2. System architectural design 2.1.

Detailed description of components

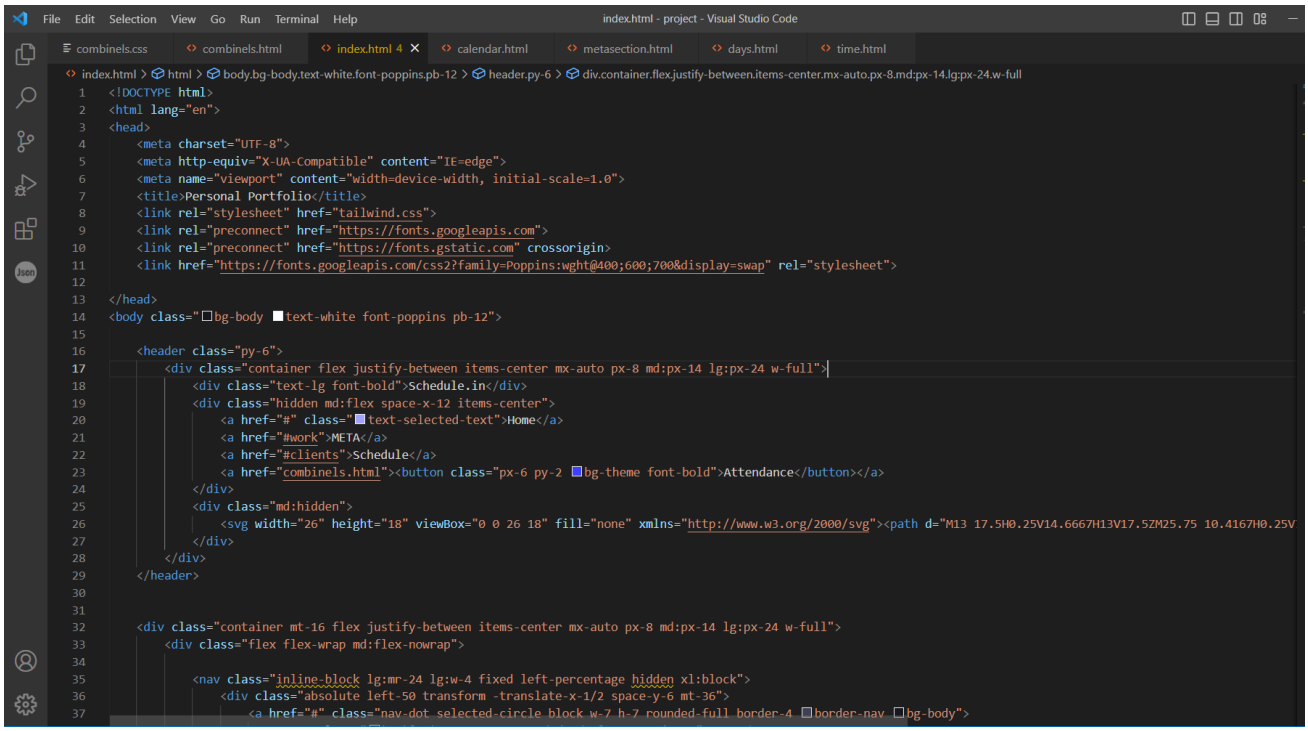
2.1.1 Activity diagram:

New user registration-

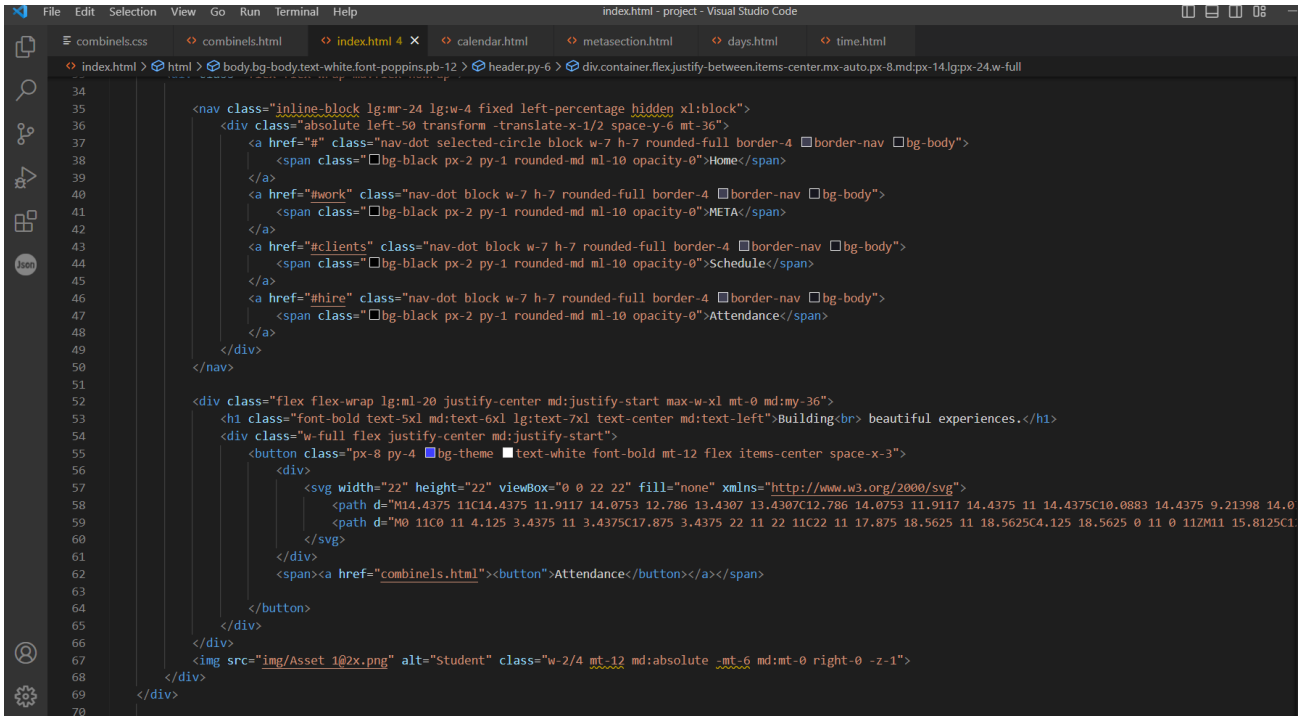


3.2 Coding:

- **For the Main page:**

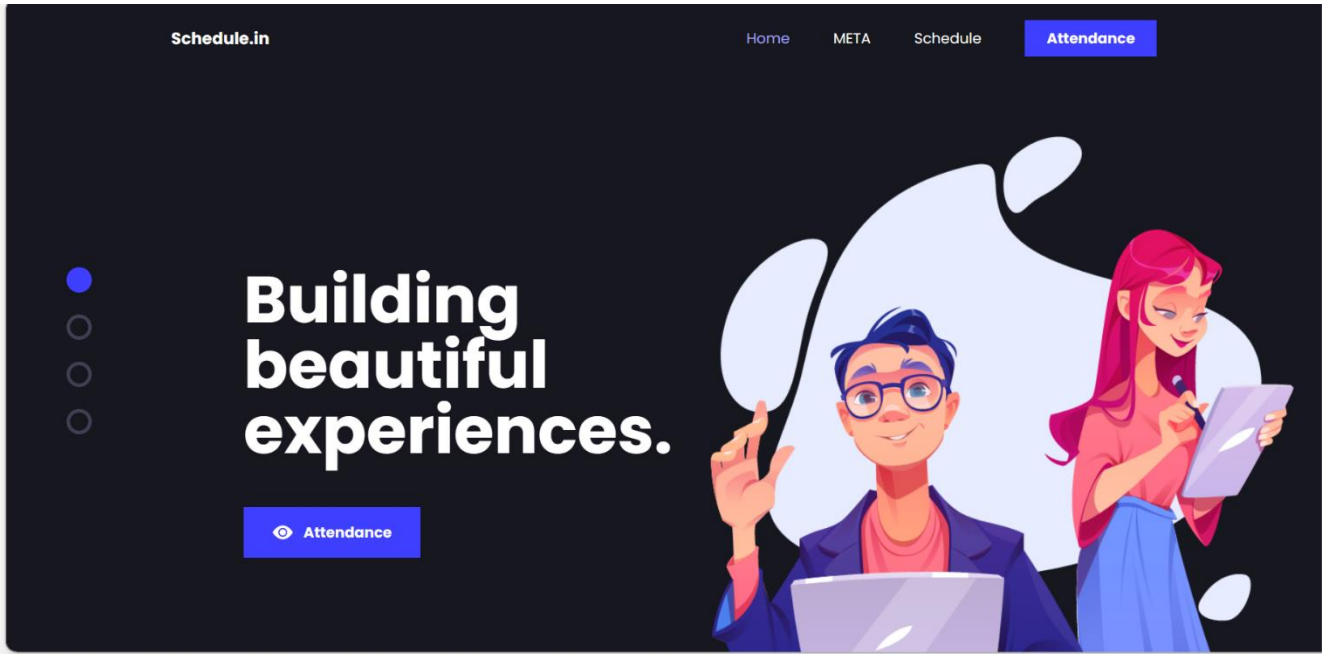


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Personal Portfolio</title>
    <link rel="stylesheet" href="tailwind.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;700&display=swap" rel="stylesheet">

</head>
<body class="bg-body text-white font-poppins pb-12">

    <header class="py-6">
        <div class="container flex justify-between items-center mx-auto px-8 md:px-14 lg:px-24 w-full">
            <div class="text-lg font-bold">Schedule.in</div>
            <div class="hidden md:flex space-x-12 items-center">
                <a href="#" class="text-selected-text">Home</a>
                <a href="#work">META</a>
                <a href="#clients">Schedule</a>
                <a href="combinels.html"><button class="px-6 py-2 bg-theme font-bold">Attendance</button></a>
            </div>
            <div class="md:hidden">
                <svg width="26" height="18" viewBox="0 0 26 18" fill="none" xmlns="http://www.w3.org/2000/svg"><path d="M13 17.5H0.25V14.6667H13V17.5ZM25.75 10.4167H0.25V
            </div>
        </div>
    </header>


    <div class="container mt-16 flex justify-between items-center mx-auto px-8 md:px-14 lg:px-24 w-full">
        <div class="flex flex-wrap md:flex-nowrap">

            <nav class="inline-block lg:mr-24 lg:w-4 fixed left-percentage hidden xl:block">
                <div class="absolute left-50 transform -translate-x-1/2 space-y-6 mt-36">
                    <a href="#" class="nav-dot selected-circle block w-7 h-7 rounded-full border-4 border-nav bg-body">
```

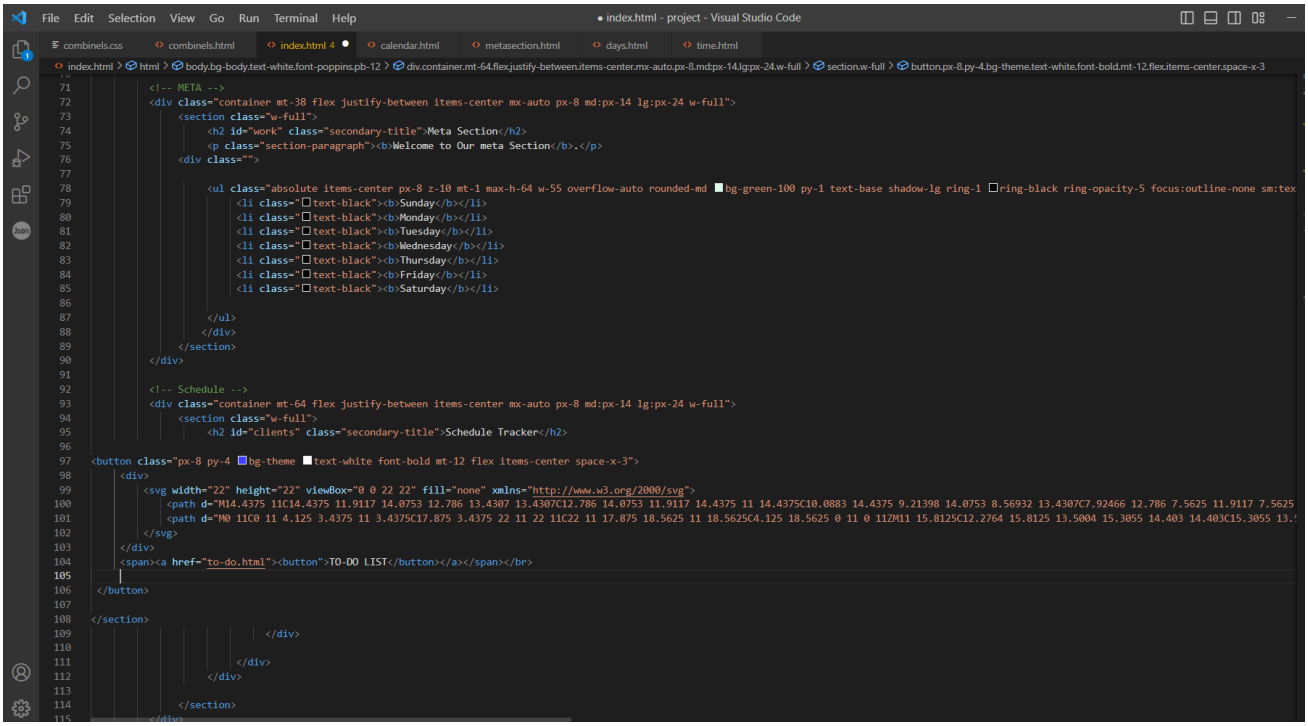


```
            <nav class="inline-block lg:mr-24 lg:w-4 fixed left-percentage hidden xl:block">
                <div class="absolute left-50 transform -translate-x-1/2 space-y-6 mt-36">
                    <a href="#" class="nav-dot selected-circle block w-7 h-7 rounded-full border-4 border-nav bg-body">
                        <span class="bg-black px-2 py-1 rounded-md ml-10 opacity-0">Home</span>
                    </a>
                    <a href="#work" class="nav-dot block w-7 h-7 rounded-full border-4 border-nav bg-body">
                        <span class="bg-black px-2 py-1 rounded-md ml-10 opacity-0">META</span>
                    </a>
                    <a href="#clients" class="nav-dot block w-7 h-7 rounded-full border-4 border-nav bg-body">
                        <span class="bg-black px-2 py-1 rounded-md ml-10 opacity-0">Schedule</span>
                    </a>
                    <a href="#hire" class="nav-dot block w-7 h-7 rounded-full border-4 border-nav bg-body">
                        <span class="bg-black px-2 py-1 rounded-md ml-10 opacity-0">Attendance</span>
                    </a>
                </div>
            </nav>

            <div class="flex flex-wrap lg:ml-20 justify-center md:justify-start max-w-xl mt-0 md:my-36">
                <h1 class="font-bold text-5xl md:text-6xl lg:text-7xl text-center md:text-left">Building<br> beautiful experiences.</h1>
                <div class="w-full flex justify-center md:justify-start">
                    <button class="px-8 py-4 bg-theme text-white font-bold mt-12 flex items-center space-x-3">
                        <div>
                            <svg width="22" height="22" viewBox="0 0 22 22" fill="none" xmlns="http://www.w3.org/2000/svg">
                                <path d="M14.4375 11C14.4375 11.9117 14.0753 12.786 13.4307 13.4307C12.786 14.0753 11.9117 14.4375 11 14.4375C10.0883 14.4375 9.21398 14.0
                                <path d="M0 11C0 11 4.125 3.4375 11 3.4375C17.875 3.4375 22 11 22 11C22 11 17.875 18.5625 11 18.5625C4.125 18.5625 0 11 0 11ZM11 15.8125C1
                            </svg>
                        </div>
                        <span><a href="combinels.html"><button">Attendance</button></a></span>

                    </button>
                </div>
            </div>
            <img src="img/Asset 1@2x.png" alt="Student" class="w-2/4 mt-12 md:absolute -mt-6 md:mt-0 right-0 -z-1">
        </div>
    </div>
```

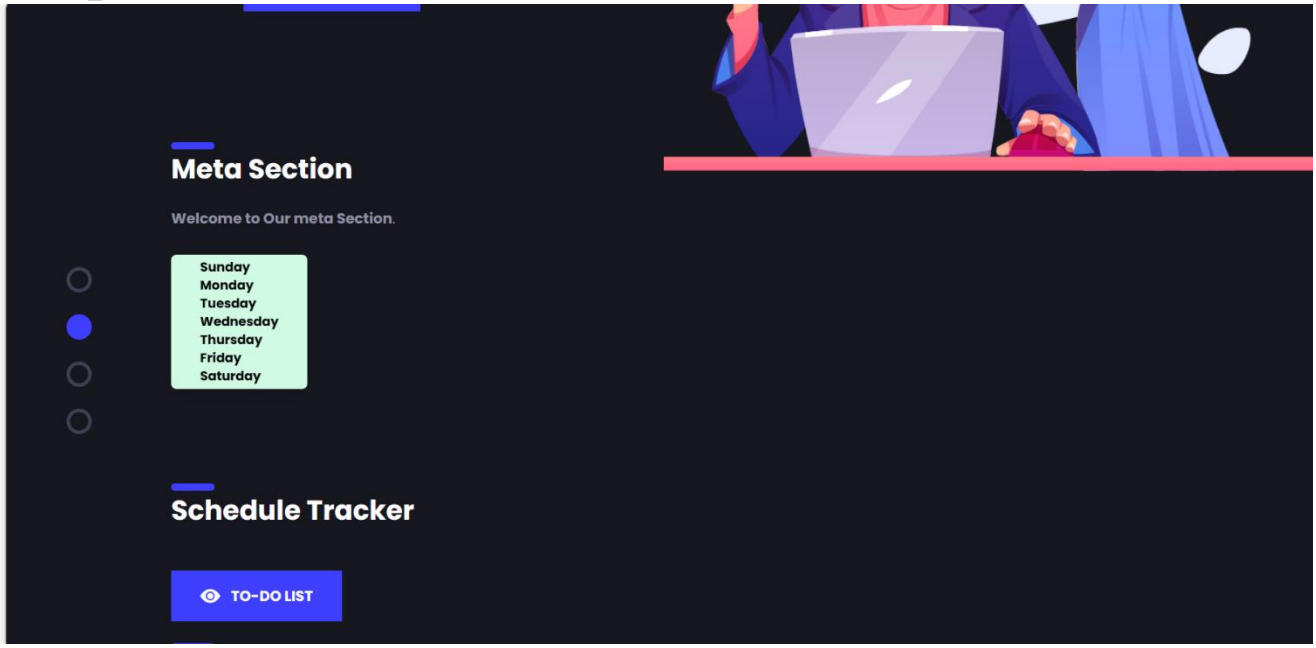
Output:



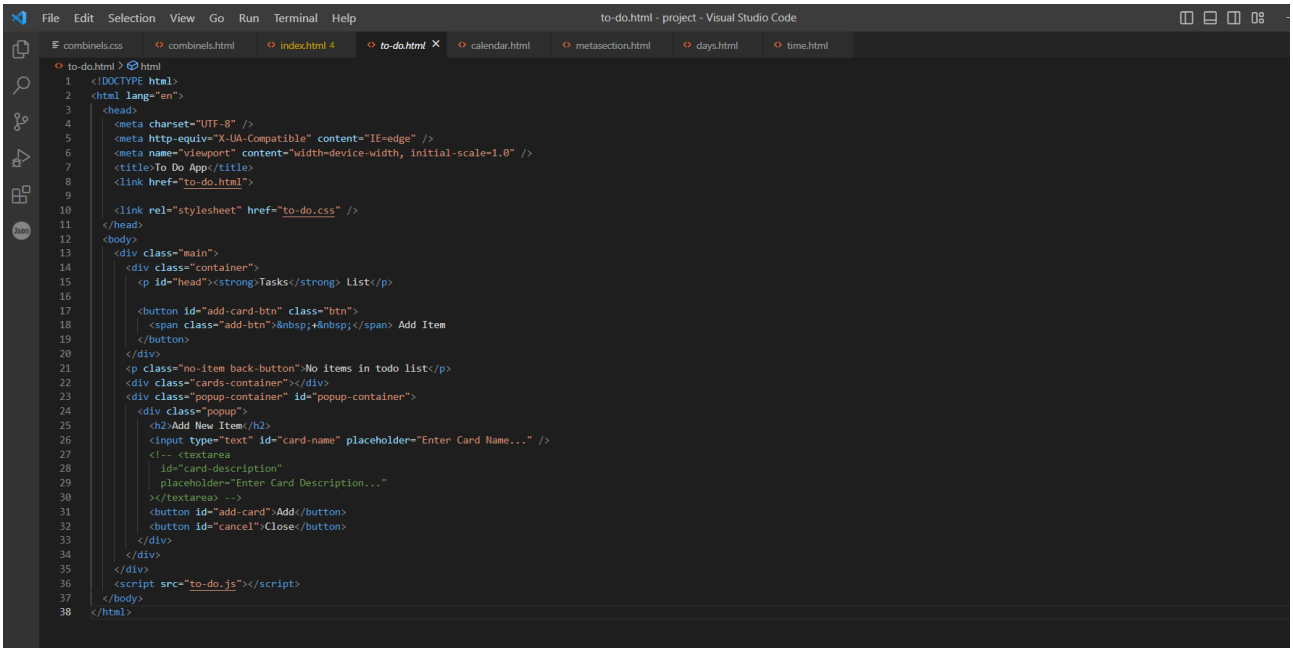
- **For the Meta Section and Schedule Section:**



Output:

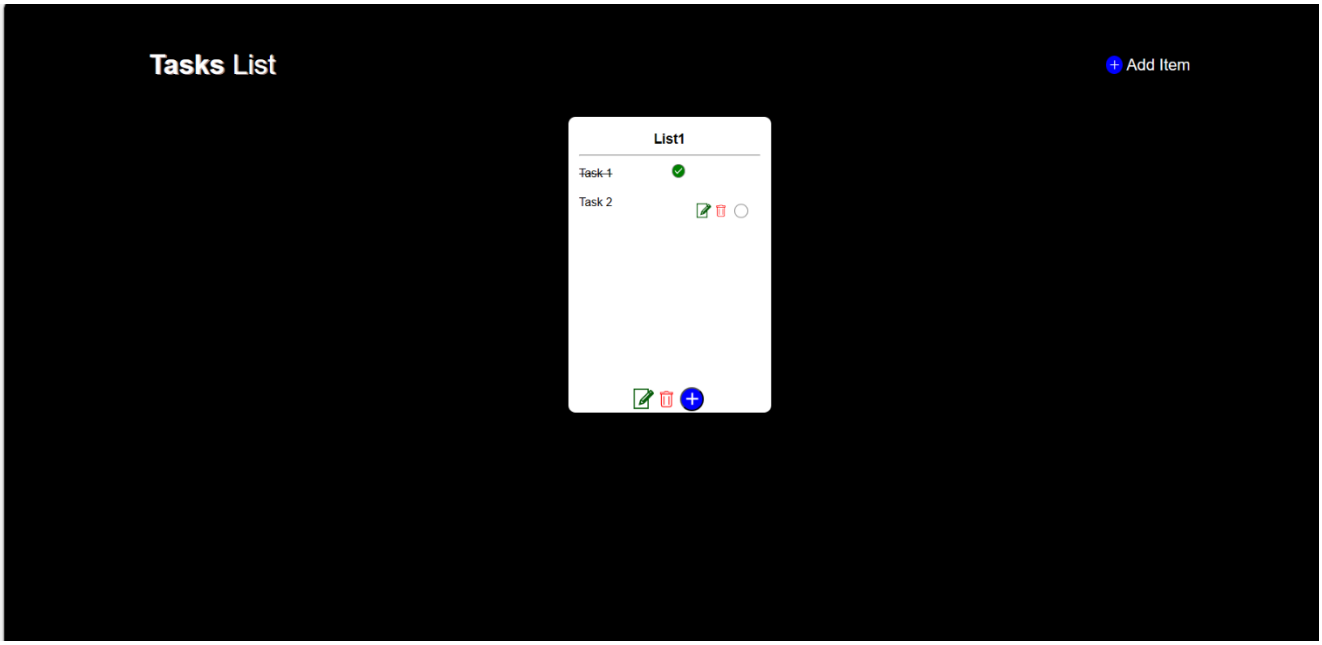


- **In Schedule Section: To-Do List:**

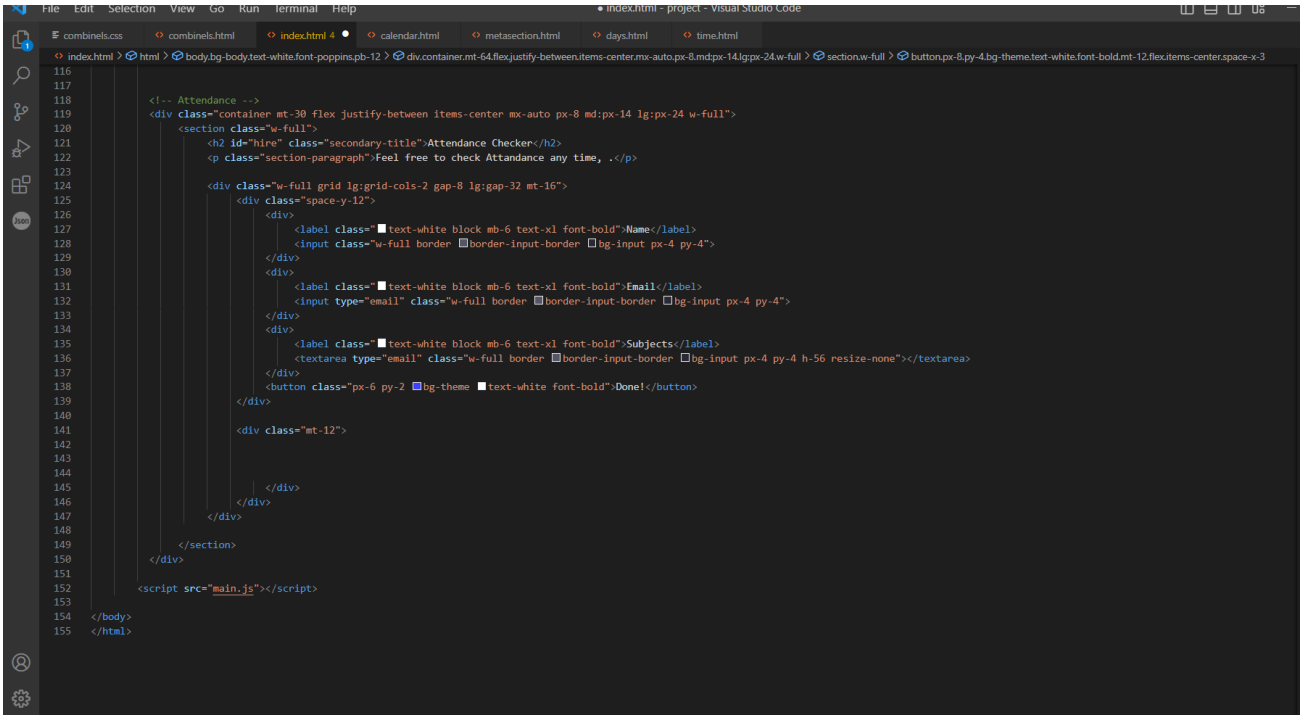


Output:


Tasks List
Add Item
No items in todo list

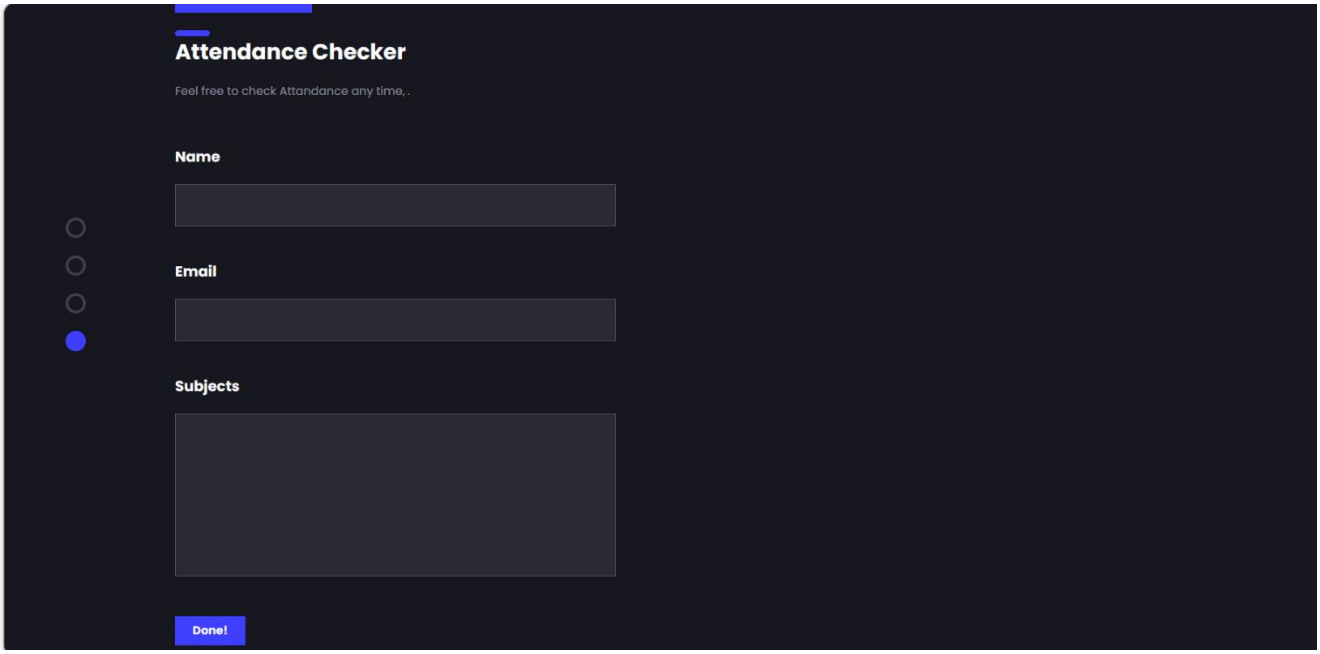

Tasks List
Add Item
List1
Task 1
Task 2

- **For the Attendance Tracker:**



```
<!-- Attendance -->
<div class="container mt-30 flex justify-between items-center mx-auto px-8 md:px-14 lg:px-24 w-full">
    <section class="w-full">
        <h2 id="hire" class="secondary-title">Attendance Checker</h2>
        <p class="section-paragraph">Feel free to check Attandance any time, .</p>

        <div class="w-full grid lg:grid-cols-2 gap-8 lg:gap-32 mt-16">
            <div class="space-y-12">
                <div>
                    <label class="text-white block mb-6 text-xl font-bold">Name</label>
                    <input class="w-full border border-input-border bg-input px-4 py-4">
                </div>
                <div>
                    <label class="text-white block mb-6 text-xl font-bold">Email</label>
                    <input type="email" class="w-full border border-input-border bg-input px-4 py-4">
                </div>
                <div>
                    <label class="text-white block mb-6 text-xl font-bold">Subjects</label>
                    <textarea type="email" class="w-full border border-input-border bg-input px-4 py-4 h-56 resize-none"></textarea>
                </div>
                <button class="px-6 py-2 bg-theme text-white font-bold">Done!</button>
            </div>

            <div class="mt-12">



                </div>
            </div>
        </div>
    </section>
</div>

<script src="main.js"></script>

</body>
</html>
```

Output:



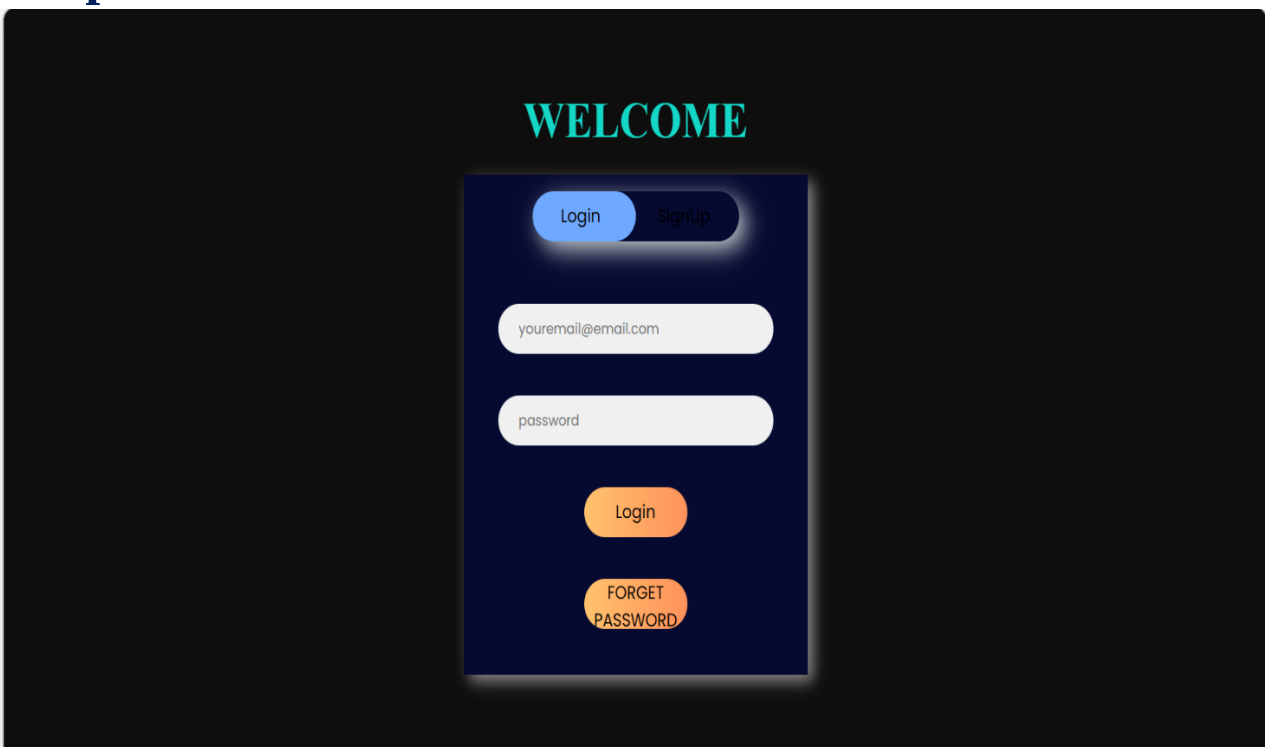
- **For the Attendance Tracker: Combine Login Signup:**

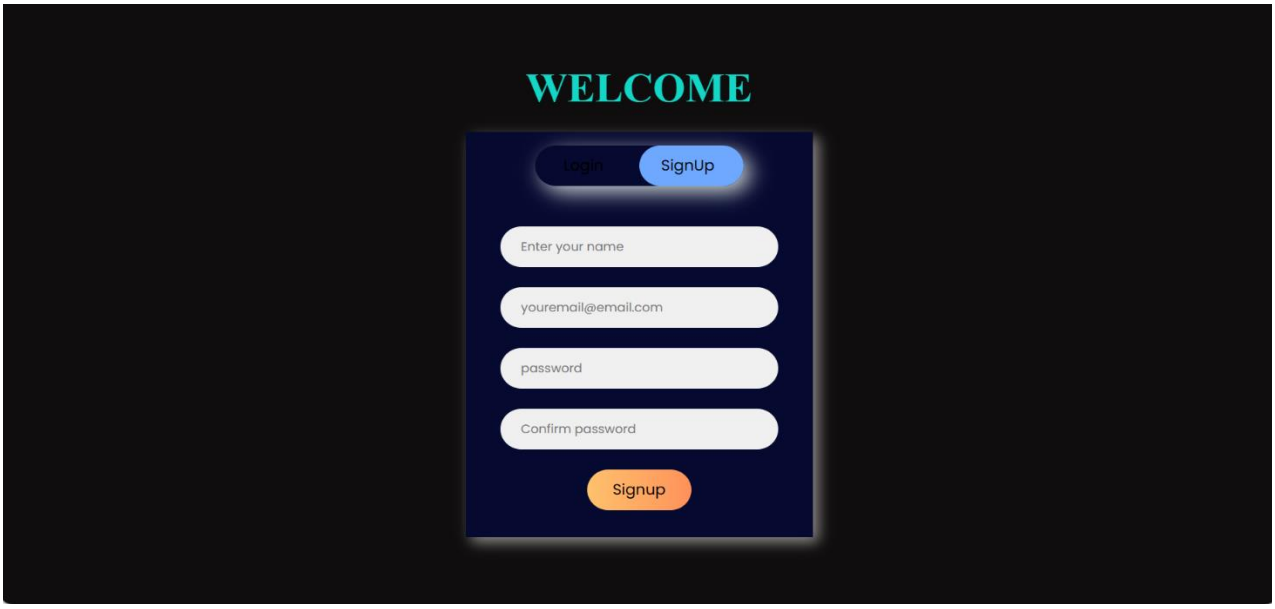
combinels.css | combinels.html | index.html 4 | to-do.html | calendar.html | metasection.html | days.html | time.html

combinels.html > body > div.container > div.form-section > div.login-box

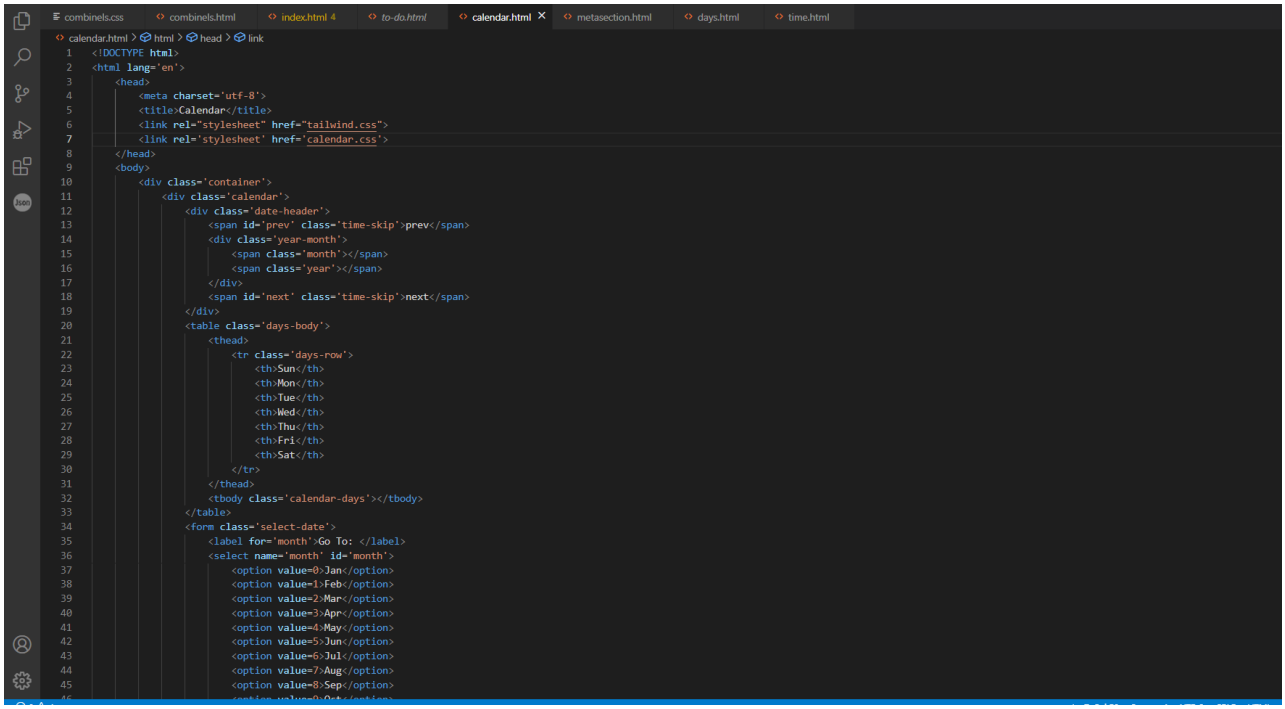
```
<!DOCTYPE html>
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
          content="width=device-width,
                   initial-scale=1.0">

    <link rel="stylesheet"
          href="combinels.css">
</head>
<body>
    <header>
        <h1 class="heading">WELCOME </h1>
    </header>
      <div class="container">
          <div class="slider"></div>
       <div class="btn">
           <button class="login">Login</button>
           <button class="signup">SignUp</button>
       </div>
       <div class="form-section">
           <div class="login-box">
               <input type="email" class="email ele" id="e" name="e" placeholder="youremail@email.com" >
               <input type="password"  class="password ele" id="pass" name="pass" placeholder="password"  >
               <button class="clkbtn" id="loginBtn">Login</button>
               <button class="clkbtn" id="forgotPasswordBtn">FORGET PASSWORD</button>
           </a>
           </div>
           <div class="signup-box">
              <input type="text"
                     class="name ele"
                     placeholder="Enter your name">
              <input type="email"
                     class="email ele"
                     placeholder="youremail@email.com" >
              <input type="password"
                     class="password ele"
                     placeholder="password" >
              <input type="password"
                     class="password ele"
                     placeholder="Confirm password">
              <button class="clkbtn" id="signUpBtn">Signup</button>
           </div>
       </div>
    <script src="combinels.js"></script>
```

Output:





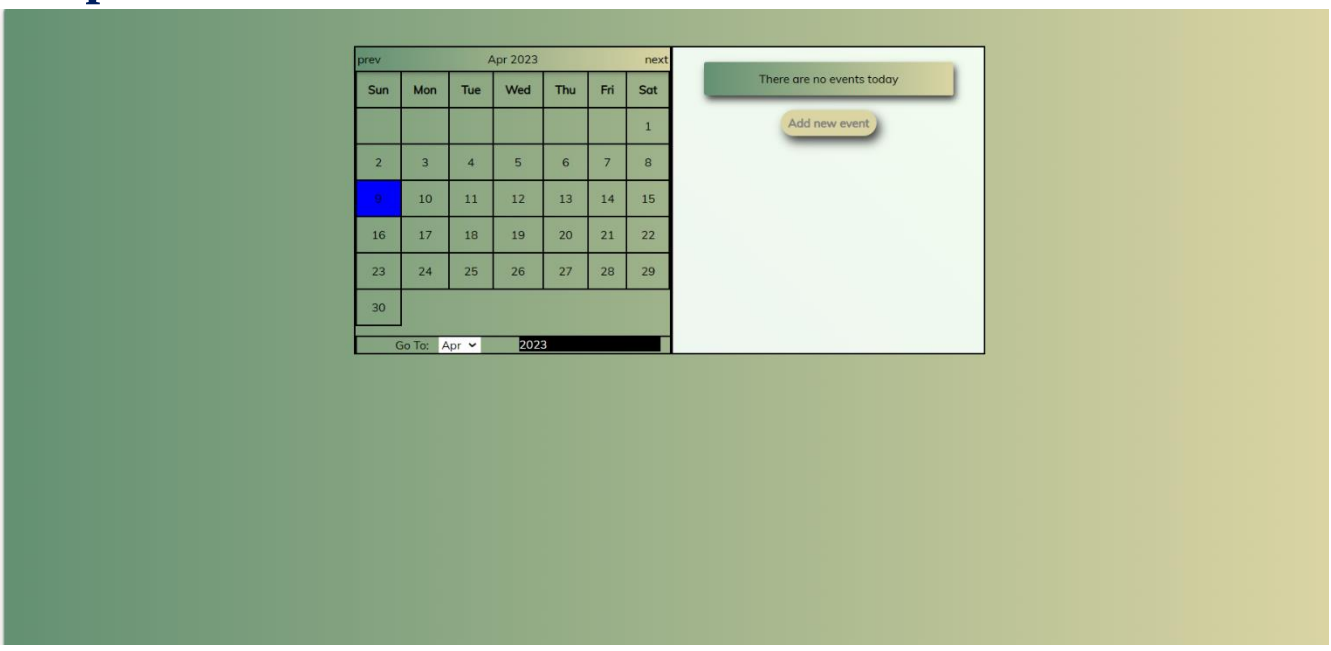
- **Calendar for Reminders and Events:**



```
<!DOCTYPE html>
<html lang='en'>
    <head>
        <meta charset='utf-8'>
        <title>Calendar</title>
        <link rel="stylesheet" href="tailwind.css">
        <link rel='stylesheet' href='calendar.css'>
    </head>
    <body>
        <div class='container'>
            <div class='calendar'>
                <div class='date-header'>
                    <span id='prev' class='time-skip'>prev</span>
                    <div class='year-month'>
                        <span class='month'></span>
                        <span class='year'></span>
                    </div>
                    <span id='next' class='time-skip'>next</span>
                </div>
                <table class='days-body'>
                    <thead>
                        <tr class='days-row'>
                            <th>Sun</th>
                            <th>Mon</th>
                            <th>Tue</th>
                            <th>Wed</th>
                            <th>Thu</th>
                            <th>Fri</th>
                            <th>Sat</th>
                        </tr>
                    </thead>
                    <tbody class='calendar-days'></tbody>
                </table>
                <form class='select-date'>
                    <label for='month'>Go To: </label>
                    <select name='month' id='month'>
                        <option value=0>Jan</option>
                        <option value=1>Feb</option>
                        <option value=2>Mar</option>
                        <option value=3>Apr</option>
                        <option value=4>May</option>
                        <option value=5>Jun</option>
                        <option value=6>Jul</option>
                        <option value=7>Aug</option>
                        <option value=8>Sep</option>
```

```
</tr>
</thead>
<tbody class='calendar-days'></tbody>
</table>
<form class='select-date'>
<label for='month'>Go To: </label>
<select name='month' id='month'>
<option value=0>Jan</option>
<option value=1>Feb</option>
<option value=2>Mar</option>
<option value=3>Apr</option>
<option value=4>May</option>
<option value=5>Jun</option>
<option value=6>Jul</option>
<option value=7>Aug</option>
<option value=8>Sep</option>
<option value=9>Oct</option>
<option value=10>Nov</option>
<option value=11>Dec</option>
</select>
<input type='number' min='1' id='year'>
</form>
</div>
<div class='event-container'>
<div class='events visible'>
<span class='no-Events event-message'>There are no events today</span>
<button class='show-event-form rotate'>Add new event</button>
</div>
<form class='new-event-form hidden'>
<legend>Submit New Event</legend>
<input id='new-event-desc' type='text' name='desc' placeholder='desc'>
<input type='submit' class='submit-event rotate' value='submit'>
</form>
</div>
</div>
<script type='text/javascript' src='calendar.js' async></script>
</body>
</html>
```

Output:



TESTING AND IMPLEMENTATION

1 INTRODUCTION TO TESTING

Software testing is the process of executing a program or system with the intent of finding errors. Or it involves any activity aimed at evaluating an attribute or capability of a program and determines that it meets its required results.
Software can fail in many different ways.
Testing helps in verifying and validating whether the software is working as it is intended to be working. Testing should systematically uncover different classes of errors in a minimum amount of time with a minimum number of efforts.

TYPES OF TESTING USED
Testing is divided into several distinct operations:

• **UNIT TESTING**
Unit test comprises of a set test performed by an individual program prior to the integration of the unit into large system. A program unit is usually the smallest free functioning part of the whole system. Module unit testing should be as exhaustive as possible to ensure that each representation handled by each module has been tested.

UNIT CASE 1

Name of test	Login test
Item being test	Test for valid student
Sample Input	Enter wrong username and password
Expected Output	Username and password required
Actual Output	Same as expected output
Result	Successful

UNIT CASE 2

Name of Test	Sign Up/Sign In test
Item being Tested	Test fir valid user's data
Sample Input	Enter wrong user details
Expected output	Correct user details required
Actual Output	Same as expected output
Result	Successful

VALIDATION TESTING

After validation testing, software is completely assembled as a package, interfacing errors that have been uncovered and final series of software test; the validation test begins. Steps taken during software design and testing can greatly improve the probability of successful integration in the larger system.

CONCLUSION

Online Schedule system project is a website which is developed in PHP for helping users to manage schedule and track attendance. This project also contains different categories. In present fast-growing technology and software world web application are playing important role in maintaining the manual work online instead of carrying papers. Considering present trend this online schedule system website is developed to help users to manage day to day chores online and access it anywhere. The accessing process can be done on a global scale.

FUTURE ENHANCEMENT

"Online Schedule system" project give option to manage schedule and get record of attendance anywhere. At this time every person has shortage of time so user can access it online by using this website.

In future, Online Schedule tracking system will create an impact on managing and tracking schedule. And will create a mobile application for the same forbidding which is used in mobile, tablet and another technology devices for the better student access just like