

PROCRASTINOT

A Mini Project Report submitted by

ANJANA SURESH
(VAS23MCA-2011)

to APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the degree of
Master of Computer Applications



Department of Computer Applications

Vidya Academy of Science & Technology

Thalakkottukara, Thrissur - 680 501

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Department of Computer Applications
Vidya Academy of Science & Technology
Thalakkottukara, Thrissur - 680 501
(<http://www.vidyaacademy.ac.in>)



CERTIFICATE

This is to certify that the report titled **PROCRASTINOT** is a bona-fide record of the work related to the paper 20MCA245 Mini Project done by

ANJANA SURESH (Reg. No. VAS23MCA-2011)

of S3 MCA (2023 admissions) class of Vidya Academy of Science & Technology, Thrissur - 680501 in partial fulfillment of the requirement for the award of the Degree of Master of Computer Applications of APJ Abdul Kalam Technological University.

Guide/Supervisor

Name : Mr.Manesh D

Signature :

Date : November 13, 2024

Head of Department

Name : Dr. Reji C Joy

Signature :

Date : November 13, 2024

(Seal of Department of Computer Applications)



Declaration

I, **ANJANA SURESH**, studying in Third Semester MCA (2023 admissions) class of Vidya Academy of Science & Technology, Thrissur – 680501, hereby declare that the project report (“PROCRASTINOT”) submitted by me is a bona fide work done by me under supervision of Mr.Manesh D. This submission represents my ideas in my own words and where ideas or words of others have been included, I have adequately and accurately cited and referenced the original sources. I also declare that I have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. I understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title of any other University.

Place : Thrissur – 680501

Signature of student :

Date : November 13, 2024

Name of student : ANJANA SURESH



Acknowledgment

I wish to record my indebtedness and thankfulness to all who helped me prepare this Report titled “PROCRASTINOT ” and present it in a satisfactory way. This Report is part of my work related to the paper 20MCA245 Mini Project.

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My friends in my class have always been helpful and I am grateful to them for patiently listening to my presentations on my work related to the Project.

ANJANA SURESH
(Reg. No. VAS23MCA-2011)
S3 MCA (2023 Admissions)
Vidya Academy of Science & Technology
Thrissur -680 501.



Synopsis

Procrastinot is an online productivity and time management platform tailored to assist users in planning, tracking, and achieving their personal and professional goals. The core of the project is a sophisticated planning system that allows users to create and manage daily, weekly, and monthly schedules with ease. With an integrated Pomodoro timer, Procrastinot supports focused work sessions that enhance productivity. The project also features comprehensive task scheduling, allowing users to break down larger goals into manageable tasks, while a built-in goal-setting function empowers users to establish and monitor personal milestones. Procrastinot's brings together task management, progress tracking, and various study methods to help users tailor their approach to productivity. The design focuses on user-friendliness and visual appeal, with customizable options to suit different user needs. In addition, the project supports tracking and analyzing productivity through progress reports, helping users make adjustments and stay on target with their plans. This all-in-one system is a valuable tool for anyone looking to organize their workflow, enhance their efficiency, and achieve long-term objectives systematically. Procrastinot's cohesive design and multi-functional approach make it suitable for students, professionals, and anyone seeking to maximize their time and productivity.

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PROJECT REPORT

Chapter 1

INTRODUCTION

1.1 Problem Definition

In the digital age, managing time and productivity is challenging due to fragmented productivity tools. Existing solutions separate task management, goal setting, and time tracking, making it hard for users to stay organized, track progress, and maintain focus. Many tools also lack customizable scheduling and study tips, leaving users without a comprehensive, integrated way to manage tasks and goals.

1.2 Objectives

The Procrastinot project is a comprehensive productivity platform designed to help users manage tasks, set and track goals, and schedule their time effectively. It features a centralized task management system, customizable goal-setting, and a Pomodoro timer for focused work intervals. Additionally, it includes an advanced scheduling calendar and a daily planner with study tips, enabling users to organize their day and enhance productivity.

1.3 Purpose of the Project

Procrastinot is an all-in-one productivity platform designed to streamline task management, goal setting, time tracking, and scheduling. By integrating these tools, it aims to enhance productivity, reduce app-switching, and offer an intuitive, user-friendly experience. Key features include goal tracking, Pomodoro intervals, and a day planner with study tips, all crafted to support improved work habits and efficient time management.

Chapter 2

SYSTEM ANALYSIS

2.1 The Existing System

Most existing productivity tools on the market today operate as isolated applications, each focusing on a specific aspect of time management or productivity, such as task lists, goal setting, scheduling, or tracking. Due to this lack of integration, users are often required to switch between multiple apps, which disrupts workflow and decreases productivity. This fragmentation leads to inefficiencies, as users spend time updating, organizing, and managing tasks across different platforms.

Furthermore, these tools often lack the flexibility to adapt to individual needs. They provide limited customization options, restricting users from creating schedules, task lists, or goals that align with their unique priorities or time preferences. Personalized goal-setting features are rare, and few platforms allow users to break down their plans into smaller, achievable steps with specific deadlines.

Focused productivity intervals, such as the Pomodoro Technique, are rarely included in mainstream productivity tools, forcing users to use separate timers or apps for concentrated work sessions. In addition, these tools typically lack advanced analytics, limiting users' ability to monitor their progress over time. Without clear insights, it is challenging for users to evaluate their productivity and make adjustments to improve efficiency.

Overall, existing systems lack a cohesive structure that integrates scheduling, task management, goal setting, focus tools, and analytics into a single, user-friendly interface. This disjointed approach hinders productivity, creates redundancy, and fails to provide a comprehensive solution for those seeking to streamline their productivity efforts in one accessible platform.

2.2 Proposed System

The proposed system for Procrastinot is an integrated productivity platform designed to simplify task management and enhance focus through a combination of essential features. At its core, the system unifies task management across daily, weekly, and monthly plans, enabling users to effortlessly create, schedule, and track their tasks. The inclusion of a goal-setting module allows users to set personal and professional objectives, providing them with the tools to monitor their progress and stay motivated as they achieve these goals.

A key feature of the system is the integrated Pomodoro timer, which encourages focused work sessions by using the popular time management technique, helping users to maintain high productivity levels while minimizing distractions. Additionally, the system's calendar function organizes events and schedules, enabling users to plan ahead and stay on top of deadlines. The platform also includes detailed progress analytics, offering insights into users' productivity patterns and helping them make informed decisions to improve their efficiency.

The user interface of the system is designed to be both intuitive and visually appealing, ensuring that users can easily navigate through different sections without feeling overwhelmed. This consolidated approach eliminates the need for multiple productivity tools, providing a seamless experience for users to manage their time, tasks, and goals in one place. Procrastinot's combination of task management, goal tracking, focus-enhancing features, and progress analysis positions it as an all-in-one solution for anyone seeking to boost their productivity and stay organized.

Chapter 3

FEASIBILITY STUDY

3.1 Technical Feasibility

The project's technical feasibility is based on its reliance on Django, a popular Python web framework that supports the development of scalable and robust applications. Django's built-in features, such as authentication, and template rendering, simplify backend processes. The necessary technical skills include proficiency in Django, frontend technologies (HTML, CSS, JavaScript), and database management, which align with current industry standards. Hosting can be easily managed using cloud services like AWS, Heroku, or DigitalOcean, ensuring that the project can be deployed and scaled without major technical challenges. Additionally, integrating tools like a calendar, analytics, and note-taking features is straightforward within Django, making the system compatible with various devices and browsers. Overall, the project is technically feasible, leveraging reliable technologies and offering scalability with sufficient developer resources.

3.2 Economical Feasibility

The economic feasibility of the project involves evaluating the development, maintenance, and potential returns. Initial development costs are focused on team hours and basic infrastructure, including hosting and domain registration. By using open-source tools like Django, licensing fees are minimized, keeping costs manageable. Ongoing maintenance costs primarily cover server hosting and feature updates, with Django's stability ensuring these costs remain low. The platform's focus on productivity tools makes it appealing to individuals, students, and businesses. The project's ability to centralize task management and analytics can boost user productivity, leading to potential cost savings for businesses and educational institutions. Overall, the project is economically feasible with low development and maintenance costs and clear paths for generating returns.



3.3 Operational Feasibility

The project is designed to meet user needs by focusing on productivity tools such as task management, scheduling, goal setting, and progress tracking. Its user-centric approach ensures it aligns with daily organizational requirements. With Django's templating system, the project provides a responsive and intuitive interface, making it accessible to users of all skill levels. Regular updates, bug fixes, and user feedback are manageable, allowing for continuous improvement. The system is scalable, accommodating growing data and users, and being web-based ensures accessibility across various devices. Overall, the project is operationally feasible and adaptable to evolving needs. In conclusion, the project is operationally feasible, designed to meet user expectations while being scalable for future growth. It successfully combines user-centric features with a responsive interface and a scalable infrastructure. The system's modular design allows for continuous improvement, ensuring that it can evolve based on user feedback and growing demands. With a clear focus on enhancing productivity and providing a seamless user experience, the project is positioned to perform well within its intended environment.

Chapter 4

SYSTEM DESIGN

4.1 Input Design

Input design refers to the process of creating user interfaces where users can provide their data or interact with the system. It involves designing forms, fields, buttons, and other elements that facilitate data entry, such as registration forms, login pages, task creation forms, and scheduling interfaces. The goal of input design is to make the user experience intuitive, efficient, and error-free. It should focus on clarity, responsiveness, and ease of use, ensuring that users can easily submit their information and engage with the system, while maintaining consistency and simplicity across all input fields and controls.

4.1.1 Registration form design

```
1 <!DOCTYPE html>
2 <html lang="en">
3 {%- load static %}
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-
    scale=1.0">
7   <title>Register Form</title>
8   <script src="https://kit.fontawesome.com/your-fontawesome-
    kit-code.js" crossorigin="anonymous"></script>
9   <link rel="shortcut icon" type="image/x-icon" href="%
10 {%- static 'C\Users\ACCA\OneDrive\Desktop\Procrastinot\Timer\static
    \logo\icon.png' %}"%>
11 </head>
```

```

12 <body>
13   <div class="container">
14     <div class="form-container">
15       <h2>Register</h2>
16       <form id="register-form" method="post" action="/
17         register">
18         {% csrf_token %}
19         <div class="input-group">
20           <i class="fas fa-user"></i>
21           <input type="text" id="username" name="
22             username" placeholder="Username" required>
23         </div>
24         <div class="input-group">
25           <i class="fas fa-envelope"></i>
26           <input type="email" id="email" name="email"
27             placeholder="Email" required>
28         </div>
29         <div class="input-group">
30           <i class="fas fa-phone"></i>
31           <input type="tel" id="phone" name="phone"
32             placeholder="Phone Number" pattern="
33               [0-9]{10}" required>
34         </div>
35         <div class="input-group">
36           <i class="fas fa-lock"></i>
37           <input type="password" id="password" name="
38             password" placeholder="Password" required>
39         </div>
40         <div class="input-group">
41           <i class="fas fa-lock"></i>
42           <input type="password" id="password_confirm"
43             name="password_confirm" placeholder="
44               Confirm Password" required>
45         </div>
46     </form>
47   </div>
48 </body>

```

```

38         <button type="submit">Register</button>
39         <p>Already have an account? <a class="nav-link"
40             btn btn-login" href="{% url 'login' %}">Login
41             </a></p>
42         </form>
43     </div>
44     <script src="script.js"></script>
45 </body>
</html>

```

4.1.2 Login form design

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     {% load static %}
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-
7         scale=1.0">
8     <title>Login</title>
9     <link rel="shortcut icon" type="image/x-icon" href="{%
10         static 'C:\Users\ACCA\OneDrive\Desktop\Procrastinot\Timer
11         \static\logo\icon.png' %}">
12 </head>
13 <body>
14     <header>
15         <nav>
16             <ul>
17                 <li><a href="/login/">Login</a></li>
18                 <!-- Other nav items can be added here -->
19             </ul>
20         </nav>
21     </header>
22     <main>
23         <div class="login-container">

```

```

21      <h2>Welcome Back , Procrastinator !</h2>
22      <form method="post" action="{% url 'login' %}?next=/
23          plan /">
24          {% csrf_token %}
25          <p>
26              <label for="id_username">Username:</label>
27              <input type="text" name="username" autofocus
28                  autocapitalize="none" autocomplete="username" maxlength="150" required id="
29                  id_username">
30
31          </p>
32          <p>
33              <label for="id_password">Password:</label>
34              <input type="password" name="password"
35                  autocomplete="current-password" required
36                  id="id_password">
37
38          </p>
39          <button type="submit">Let ' s Go!</button>
40
41      </form>
42
43  </div>
44
45  </main>
46
47  <footer>
48      <p>&copy; 2024 Procrastinot – Keep Procrastinating , But
49          Better !</p>
50
51  </footer>
52
53  <script src="/ static /js /scripts .js "></script>
54
55</body>
56
57</html>

```

4.1.3 Task page design

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">

```

```

5      <meta name="viewport" content="width=device-width, initial-
6          scale=1.0">
7      <title>Student Task Management</title>
8      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/
9          ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
10     </head>
11     <body>
12         <div class="container">
13             <div class="form-section">
14                 <h1>Task Manager</h1>
15                 <input type="text" id="searchBar" class="search-bar"
16                     placeholder="Search tasks ..." onkeyup="
17                         searchTasks()"/>
18                 <div class="task-form">
19                     <input type="text" id="taskTitle" placeholder="
20                         Task Title"/>
21                     <textarea id="taskDesc" placeholder="Task
22                         Description" rows="3"></textarea>
23                     <input type="date" id="dueDate"/>
24                     <select id="taskPriority" class="priority-select
25                         ">
26                         <option value="Low">Low Priority</option>
27                         <option value="Medium">Medium Priority</
28                             option>
29                         <option value="High">High Priority</option>
30                     </select>
31                     <button id="addTaskBtn">Add Task</button>
32                 </div>
33             </div>
34             <div class="task-list-section">
35                 <ul class="task-list" id="taskList"></ul>
36             </div>
37         </div>
38         <script>
39             const addTaskBtn = document.getElementById('addTaskBtn')
40             ;

```

```

32 const taskTitleInput = document.getElementById('taskTitle');
33 const taskDescInput = document.getElementById('taskDesc');
34 const dueDateInput = document.getElementById('dueDate');
35 const taskPriorityInput = document.getElementById('taskPriority');
36 const taskList = document.getElementById('taskList');
37 const searchBar = document.getElementById('searchBar');
38 // Load tasks from local storage
39 window.onload = loadTasks;
40 addTaskBtn.addEventListener('click', () => {
41     const taskTitle = taskTitleInput.value;
42     const taskDesc = taskDescInput.value;
43     const dueDate = dueDateInput.value;
44     const taskPriority = taskPriorityInput.value;
45     if (taskTitle) {
46         const taskItem = createTaskItem(taskTitle,
47                                         taskDesc, dueDate, taskPriority);
48         taskList.appendChild(taskItem);
49         saveTask(taskTitle, taskDesc, dueDate,
50                  taskPriority);
51         clearInputs();
52     }
53 });
54 function createTaskItem(taskTitle, taskDesc, dueDate,
55                         taskPriority) {
56     const taskItem = document.createElement('li');
57     taskItem.classList.add('task-item', taskPriority);
58     taskItem.innerHTML =
59         <div class="task-details">
60             <span class="task-title">$ {taskTitle} - ${taskPriority}</span>
61             <span>${dueDate}</span>
62         </div>
63         <p class="task-desc">${taskDesc}</p>

```

```

61         <button onclick="markAsDone( this )">Mark as Done<
62             / button>
63         <button onclick="editTask( this )">Edit</button>
64         <button onclick="deleteTask( this )">Delete</
65             button>
66     return taskItem ;
67 }
68 function saveTask( taskTitle , taskDesc , dueDate ,
69   taskPriority ) {
70   let tasks = JSON.parse( localStorage.getItem( ' tasks ' )
71     ) || [];
72   tasks.push({ taskTitle , taskDesc , dueDate ,
73     taskPriority , completed: false });
74   localStorage.setItem( ' tasks ' , JSON.stringify( tasks ) )
75     ;
76 }
77 function loadTasks() {
78   let tasks = JSON.parse( localStorage.getItem( ' tasks ' )
79     ) || [];
80   tasks.forEach( task => {
81     const taskItem = createTaskItem( task.taskTitle ,
82       task.taskDesc , task.dueDate , task .
83       taskPriority );
84     if ( task.completed ) {
85       taskItem.classList.add( ' completed ' );
86     }
87     taskList.appendChild( taskItem );
88   });
89 }
90 function clearInputs() {
91   taskTitleInput.value = '';
92   taskDescInput.value = '';
93   dueDateInput.value = '';
94   taskPriorityInput.value = 'Low';
95 }
96 function markAsDone( button ) {

```

```

88         const taskItem = button.closest('.task-item');
89         taskItem.classList.toggle('completed');
90         button.innerHTML = taskItem.classList.contains(
91             'completed') ? 'Undo' : 'Mark as Done';
92         updateLocalStorage();
93     }
94     function deleteTask(button) {
95         const taskItem = button.closest('.task-item');
96         taskList.removeChild(taskItem);
97         updateLocalStorage();
98     }
99     function updateLocalStorage() {
100        const tasks = [];
101        taskList.childNodes.forEach(taskItem => {
102            tasks.push({
103                taskTitle: taskItem.querySelector('.task-
104                    title').innerText,
105                taskDesc: taskItem.querySelector('.task-desc
106                    ').innerText,
107                dueDate: taskItem.querySelector('span:last-
108                    child').innerText,
109                taskPriority: taskItem.classList.contains(
110                    'High') ? 'High' : (taskItem.classList.
111                    contains('Medium') ? 'Medium' : 'Low'),
112                completed: taskItem.classList.contains(
113                    'completed')
114            });
115        });
116        localStorage.setItem('tasks', JSON.stringify(tasks));
117    }
118    function searchTasks() {
119        const query = searchBar.value.toLowerCase();
120        document.querySelectorAll('.task-item').forEach(
121            taskItem => {

```

```

114         const taskTitle = taskItem.querySelector('.task-
115             title').innerText.toLowerCase();
116             taskItem.style.display = taskTitle.includes(
117                 query) ? 'block' : 'none';
118             });
119         function editTask(button) {
120             const taskItem = button.closest('.task-item');
121             const taskTitle = taskItem.querySelector('.task-
122                 title').innerText;
123             const taskDesc = taskItem.querySelector('.task-desc
124                 ').innerText;
125             const dueDate = taskItem.querySelector('span:last-
126                 child').innerText;
127             taskTitleInput.value = taskTitle;
128             taskDescInput.value = taskDesc;
129             dueDateInput.value = dueDate;
130             deleteTask(button);
131         }
132     </script>
133 </body>
134 </html>

```

4.1.4 Goal page design

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-
6         scale=1.0">
7     <title>Your Goals | Procrastinot</title>
8 </head>
9 <body>
10    <h1>Your Epic Goals</h1>
11    <div class="main-box">

```

```

11   <div class="container">
12     <!-- Left Section -->
13     <div class="left-section">
14       <h2>Set Your Weekly Study Goal </h2>
15       <form method="POST" action="{% url 'set_weekly_goal' %}">
16         {% csrf_token %}
17         <input type="number" name="study_hours" placeholder="How many hours do you plan to study this week?" required>
18         <button type="submit">Set Weekly Goal </button>
19     </form>
20     <h2>Your Progress</h2>
21     <div class="progress-container">
22       <div class="progress-bar">
23         <div style="width: {{ progress_percentage }}%;"></div>
24       </div>
25       <p>{{ progress_percentage }}% of your weekly goal completed!</p>
26     </div>
27     <h2>Add a New Goal </h2>
28     <form method="POST" action="{% url 'add_goal' %}">
29       {% csrf_token %}
30       <input type="text" name="title" placeholder="What's the plan, champ?" required>
31       <textarea name="description" placeholder="Describe your awesomeness in detail..." required></textarea>
32       <button type="submit">Add Goal </button>
33     </form>
34     <div class="motivation">
35       <h2>Need Some Motivation? </h2>

```

```

36      <p>”The road to success is dotted with many
37          tempting parking spaces!”</p>
38      <p>”Procrastination is like a credit card:
39          it’s a lot of fun until you get the bill.
40          ”</p>
41      </div>
42      </div>
43      <!-- Right Section -->
44      <div class=”right-section”>
45          <h2>Your Goals</h2>
46          <ul>
47              {% for goal in goals %}
48                  <li class=”{% if goal.completed %} completed{%
49                      %} endif %}”>
50                      <strong>{{ goal.title }}</strong><br>
51                          >
52                          {{ goal.description }}<br>
53                      <em>Status:</em>
54                          {% if goal.completed %}
55                              Completed
56                          {% else %}
57                              Pending
58                          {% endif %}
59                  </li>
60              {% endfor %}
61          </ul>
62          <form method=”POST” action=”{% url ‘
63              complete_goal’ goal.id %}”>
64              {% csrf_token %}
65              <button type=”submit” class=”
66                  complete-btn”>Mark as
67                  Completed </button>
68          </form>
69          <form method=”POST” action=”{% url ‘
70              delete_goal’ goal.id %}”>
71              {% csrf_token %}
72              <button type=”submit” class=”
73                  delete-btn”>Delete Goal </

```

```

62           button>
63       </form>
64   </li>
65   {% empty %}
66   <li class="empty-list">No goals added
67       yet... Time to get moving! </li>
68   {% endfor %}
69   </ul>
70 </div>
71 </div>
72 </body>
73 </html>

```

4.2 Output Design

Output design refers to how data and information are presented to users in a system. It involves displaying processed results from user inputs in a clear, organized, and visually appealing manner. In the context of the Procrastinot project, output design includes pages like the dashboard, calendar, and progress tracking sections, where users can view their schedules, task lists, goals, and time management progress. The goal is to provide feedback, insights, and summaries in a way that is easy to understand and interact with, helping users stay on track with their tasks and productivity goals effectively.

4.2.1 Index page design

```

1 <!DOCTYPE html>
2 <html lang="en">
3   {% load static %}
4   <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-
7       scale=1.0">
8     <title>Procrastinot - Your Virtual Study Planner</title>
9     <!-- Favicon -->

```

```

9   <link rel="shortcut icon" type="image/x-icon" href="%{%
10    static 'C:\Users\ACCA\OneDrive\Desktop\Procrastinot\Timer\
11    \static\logo\icon.png' %}" />
12  <!-- External Stylesheets -->
13  <link rel="stylesheet" href="%{ static 'C:\Users\ACCA\
14    OneDrive\Desktop\Procrastinot\Timer\static\css\style.css' %
15    }">
16  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/
17    ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
18  <link href="https://fonts.googleapis.com/css2?family=Roboto:
19    wght@300;400;700&display=swap" rel="stylesheet">
20  </head>
21  <body>
22  <!-- Header -->
23  <header class="header">
24    <nav class="navbar">
25      <a class="navbar-brand" href="#">ProcrastiNOT</a>
26      <div class="navbar-nav">
27        <a class="nav-link" href="#hero">Home</a>
28        <a class="nav-link" href="#features">Features</a>
29        >
30        <a class="nav-link" href="#about">About</a>
31        <a class="nav-link btn btn-login" href="%{ url \
32          login %}">Login</a>
33        <a class="nav-link btn btn-register" href="%{ url \
34          register %}" style="margin-right: 2cm;">Register</a>
35      </div>
36    </nav>
37  </header>
38  <!-- Hero Section -->
39  <section class="hero" id="hero">
40    <h1>Welcome to ProcrastiNOT</h1>
41    <p>Your Ultimate Study Planner to Boost Productivity .
42      ProcrastiNOT offers a range of features designed to
43      help you stay focused and manage your study time

```

effectively. With tools like task management, a Pomodoro timer, and detailed progress tracking, Day scheduling way you can easily organize your study sessions and achieve your goals with confidence.</p>

```

33 </section>
34 <!-- Features Section -->
35 <section class="features" id="features">
36   <h2>Features</h2>
37   <div class="row">
38     <div class="feature-item">
39       <i class="fa fa-calendar-check"></i>
40       <h3>Task Management</h3>
41       <p>Organize and prioritize your tasks
42         efficiently.</p>
43     </div>
44     <div class="feature-item">
45       <i class="fa fa-clock"></i>
46       <h3>Pomodoro Timer</h3>
47       <p>Focus on your tasks with the Pomodoro
48         technique.</p>
49     </div>
50     <div class="feature-item">
51       <i class="fa fa-chart-bar"></i>
52       <h3>Time Scheduler</h3>
53       <p>Track your daily time schedule</p>
54     </div>
55     <div class="feature-item">
56       <i class="fa fa-bullseye"></i>
57       <h3>Goal Setting</h3>
58       <p>Set clear goals and stay on track to achieve
59         them.</p>
60     </div>
61     <div class="feature-item">
62       <i class="fa fa-sticky-note icon"></i>
63       <h3>NoteHub</h3>

```

```
61      <p>Capturing and organizing notes across various  
62          subjects. Enhance your learning experience.<  
63      /p>  
64  </div>  
65  <div class="feature-item">  
66      <i class="fa fa-calendar-alt"></i>  
67      <h3>Calendar</h3>  
68      <p>Keep track of your schedule and important  
69          dates with the built-in calendar.</p>  
70  </div>  
71  </div>  
72  </section>  
73  <!-- About Section -->  
74  <section class="about" id="about">  
75      <div class="container">  
76          <h2>About Procrastinot</h2>  
77          <p>Procrastinot is an all-in-one productivity tool  
78              designed to enhance your study routine. It  
79              features comprehensive task management, a  
80              customizable Pomodoro timer, and robust progress  
81              tracking to help you stay organized and motivated.  
82              Whether you're setting goals, tracking your  
83              study time, or integrating with other apps,  
84              Procrastinot provides everything you need to  
85              optimize your productivity and achieve your  
86              academic goals efficiently.</p>  
87      </div>  
88  </section>  
89  <!-- Footer -->  
90  <footer class="footer">  
91      <p> 2024 ProcrastiNOT - All Rights Reserved | <a href="#">Privacy Policy</a></p>  
92  </footer>  
93 </body>  
94 </html>
```

4.2.2 User Dashboard

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-
6          scale=1.0">
7      <title>User Study Plan</title>
8  </head>
9  <body>
10     <div class="main-content">
11         <h1>Your Study Plan Awaits! </h1>
12         <!-- Links to App Features -->
13         <div class="study-plan">
14             <div class="plan-column side-menu">
15                 <h2>Study Tools</h2>
16                 <ul>
17                     <li><a href="{% url 'today_tasks' %}">To-do
18                         List</a></li>
19                     <li><a href="{% url 'calendar_view' %}">Full
20                         Calendar</a></li>
21                     <li><a href="{% url 'timer' %}">Pomodoro
22                         Timer</a></li>
23                     <li><a href="{% url 'schedule' %}">Day
24                         Planner</a></li>
25                     <li><a href="{% url 'goals' %}">Goal Setting
26                         </a></li>
27                     <li><a href="{% url 'notes' %}">Notes</a></
28                         li>
29                 </ul>
30             </div>
31         </div>
32         <div class="footer-joke">
33             Remember: <span>Procrastination</span> is like a
34                 credit card. It's fun until you get the bill!
35         </div>

```

```

28   </div>
29 </body>
30 </html>
```

4.2.3 Calendar page design

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-
       scale=1.0">
6      <title>Study Platform Calendar</title>
7  </head>
8  <body>
9      <div class="calendar">
10         <h1>Study Platform Calendar</h1>
11         <h2>Because cramming at the last minute is a form of
           exercise !</h2>
12         <div class="calendar-header">
13             <button id="prev"> Previous</button>
14             <h2 id="monthYear"></h2>
15             <button id="next">Next </button>
16         </div>
17         <div class="days" id="days"></div>
18         <div class="events-section">
19             <h2>Calendar Events</h2>
20             <form id="eventForm" method="post">
21                 {% csrf_token %}
22                 {{ form.as_p }}
23                 <button type="submit">Add Event</button>
24             </form>
25             <ul class="events-list">
26                 {% for event in events %}
27                     <li>{{ event.title }}: {{ event.start_date
                           }} to {{ event.end_date }}</li>
```

```

28         {%- empty %}
29             <p>No events available. It's a study-free
30                 zone!</p>
31         {%- endfor %}
32     </ul>
33 </div>
34 <!-- Event Modal -->
35 <div id="eventModal">
36     <div id="modalContent">
37         <span id="closeModal">&times;</span>
38         <h3>Add Event</h3>
39         <input type="text" id="eventInput" class="input"
40             placeholder="Event name (e.g., Ace that exam!)"/>
41         <button id="addEvent">Save Event</button>
42     </div>
43 </div>
44 <!-- Reminder Modal -->
45 <div id="reminderModal">
46     <div id="modalContent">
47         <span id="closeReminderModal">&times;</span>
48         <h3>Add Reminder</h3>
49         <input type="text" id="reminderInput" class="input"
50             placeholder="Reminder"/>
51         <button id="addReminder">Save Reminder</button>
52     </div>
53 </div>
54 <!-- Details Modal -->
55 <div id="detailModal">
56     <div id="modalContent">
57         <span id="closeDetailModal">&times;</span>
58         <h3>Details</h3>
59         <p id="detailsContent"></p>

```

```

60 <script>
61   document.addEventListener("DOMContentLoaded", () => {
62     const monthYear = document.getElementById('monthYear')
63     const daysContainer = document.getElementById('days')
64     const prevButton = document.getElementById('prev');
65     const nextButton = document.getElementById('next');
66     const eventModal = document.getElementById(
67       'eventModal');
68     const closeModal = document.getElementById(
69       'closeModal');
70     const eventInput = document.getElementById(
71       'eventInput');
72     const addEventButton = document.getElementById(
73       'addEvent');
74     const reminderModal = document.getElementById(
75       'reminderModal');
76     const closeReminderModal = document.getElementById(
77       'closeReminderModal');
78     const reminderInput = document.getElementById(
79       'reminderInput');
80     const addReminderButton = document.getElementById(
81       'addReminder');
82     const detailModal = document.getElementById(
83       'detailModal');
84     const closeDetailModal = document.getElementById(
85       'closeDetailModal');
86     const detailsContent = document.getElementById(
87       'detailsContent');
88     let currentDate = new Date();
89     function renderCalendar() {
90       monthYear.textContent = currentDate.
91        toLocaleDateString('en-US', { month: 'long',
92           year: 'numeric' });
93       daysContainer.innerHTML = '';

```

```

81         const firstDay = new Date(currentDate .
82                               .getFullYear(), currentDate.getMonth(), 1);
83         const lastDay = new Date(currentDate.getFullYear()
84                               (), currentDate.getMonth() + 1, 0);
85         for (let i = 1; i <= lastDay.getDate(); i++) {
86             const day = document.createElement('div');
87             day.classList.add('day');
88             day.textContent = i;
89             daysContainer.appendChild(day);
90         }
91         prevButton.addEventListener('click', () => {
92             currentDate.setMonth(currentDate.getMonth() - 1)
93             ;
94             renderCalendar();
95         });
96         nextButton.addEventListener('click', () => {
97             currentDate.setMonth(currentDate.getMonth() + 1)
98             ;
99             renderCalendar();
100        });
101    
```

4.2.4 Timer page design

```

1  {%
2   load static %}
3  <!DOCTYPE html>
4  <html lang="en">
5  <head>
6      <meta charset="UTF-8">
7      <meta name="viewport" content="width=device-width, initial-
8          scale=1.0">

```

```

7      <title>Pomodoro Timer</title>
8  </head>
9  <body>
10     <div class="timer-container">
11         <!-- Timer Section -->
12         <div class="timer-section">
13             <h1>Pomodoro Timer</h1>
14             <div class="time" id="timer">25:00</div>
15             <div class="buttons">
16                 <button onclick="startTimer()">Start</button>
17                 <button onclick="pauseTimer()">Pause</button>
18                 <button onclick="resetTimer()">Reset</button>
19             </div>
20         </div>
21         <!-- Customization Section -->
22         <div class="customization-section">
23             <h3>Customize Timer</h3>
24             <div class="customization">
25                 <label for="pomodoro-time">Pomodoro:</label>
26                 <input type="number" id="pomodoro-time"
27                     placeholder="25" min="1"> min<br><br>
28                 <label for="break">Break:</label>
29                 <input type="number" id="break" placeholder="5"
30                     min="1"> min<br><br>
31                 <button onclick="customizeTimer()">Set Time</
32                     button>
33             </div>
34         </div>
35     </div>
36     <script>
37         let timer;
38         let timeLeft = 1500; // Default 25 minutes for Pomodoro
39         let isPaused = false;
40         let currentMode = "Focus";
41         const timerDisplay = document.getElementById('timer');
42         function startTimer() {
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
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132
133
134
135
136
137
138
139

```

```

40         if (!isPaused) {
41             clearInterval(timer);
42             timer = setInterval(countdown, 1000);
43         } else {
44             isPaused = false;
45         }
46     }
47     function pauseTimer() {
48         isPaused = true;
49         clearInterval(timer);
50     }
51     function resetTimer() {
52         clearInterval(timer);
53         timeLeft = 1500; // Reset to 25 minutes
54         timerDisplay.innerHTML = "25:00";
55     }
56     function countdown() {
57         if (timeLeft > 0) {
58             timeLeft--;
59             const minutes = Math.floor(timeLeft / 60);
60             const seconds = timeLeft % 60;
61             timerDisplay.innerHTML = `${minutes}:${seconds <
62               10 ? '0' : ''}${seconds}`;
63         } else {
64             clearInterval(timer);
65             switchMode();
66         }
67     }
68     function switchMode() {
69         if (currentMode === "Focus") {
70             currentMode = "Break";
71             timeLeft = 300; // 5 minutes break
72         } else {
73             currentMode = "Focus";
74             timeLeft = 1500; // 25 minutes
75         }
76     }
77 }
78 
```

```

75         startTimer();
76     }
77     function customizeTimer() {
78         const pomodoroTime = document.getElementById('
79             pomodoro-time').value * 60 || 1500;
80         const breakTime = document.getElementById('break').
81             value * 60 || 300;
82         if (currentMode === "Focus") {
83             timeLeft = pomodoroTime;
84         } else if (currentMode === "Break") {
85             timeLeft = breakTime;
86         }
87     </script>
88 </body>
89 </html>

```

4.3 Database Design

Data Flow Diagram (DFD)

Introduction

A Data Flow Diagram (DFD) is a graphical representation of the flow of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of the system, which can later be elaborated. It is also used for the visualization of data processing (structured design).

Components of DFD

To construct data flow diagrams, the following symbols are commonly used:

- **Arrows:** Represent the flow of data.
- **Circles:** Indicate processes or transformations.

- **Squares:** Represent external entities or data sources.
- **Open rectangles:** Denote data stores or databases.

Rules for Constructing DFDs

When constructing data flow diagrams, certain rules must be followed:

- Arrows should not cross each other to maintain clarity.
- Squares, circles, and files (data stores) must have unique names.
- Decomposed data flows must be balanced, meaning all data flows on the decomposed diagram must reflect flows in the original diagram.
- No two data flows, squares, or circles should have the same name within a single diagram.
- Draw all data flows around the outside of the diagram.
- Use meaningful names for data flows, processes, and data stores, preferably with strong verbs followed by nouns.

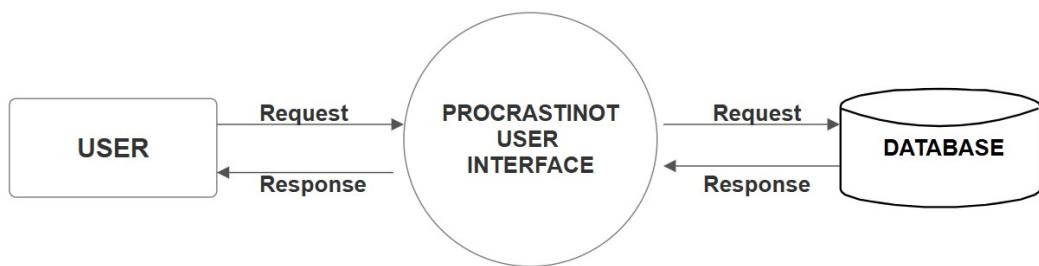
DFD LEVEL 0

Figure 4.1: DFD Level 0

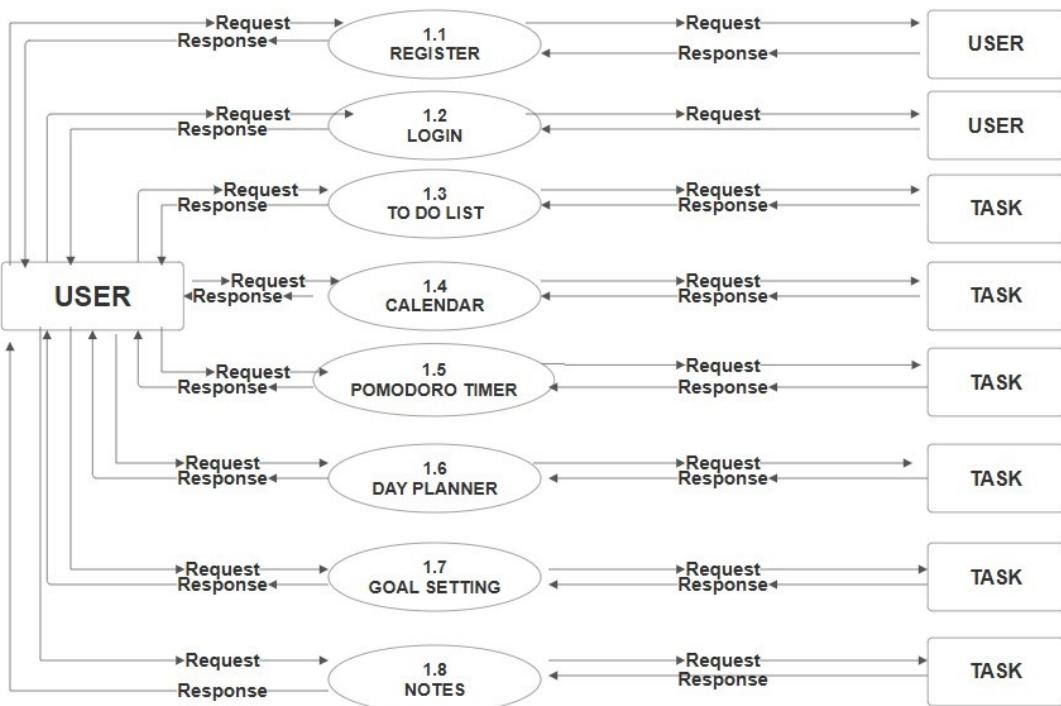
DFD LEVEL 1

Figure 4.2: DFD Level 1 : User

Chapter 5

IMPLEMENTATION, TESTING AND VALIDATION

5.1 Implementation

The implementation phase of the Procrastinot project involves converting the design and project requirements into a functional application. This phase is crucial for ensuring the product is reliable, scalable, and maintainable. The Procrastinot platform incorporates features such as task scheduling, goal setting, a Pomodoro timer, progress tracking, and study methods. The system allows users to create and manage daily, weekly, and monthly plans efficiently. During implementation, the frontend (user interface) and backend (server and database) components are developed, ensuring that they work seamlessly together. The system architecture is designed with scalability in mind, enabling the addition of more features in the future. Code is written for both the user interface and the business logic, integrating essential elements such as event scheduling, task management, and progress reports. Additionally, the platform is built to be user-friendly and visually appealing, enhancing the overall user experience and helping users effectively manage their time and tasks.

5.2 Testing Methods

Testing is a vital process to ensure the quality and functionality of the Procrastinot project. The goal is to identify bugs, enhance reliability, and verify that the platform meets its requirements.

5.2.1 Unit Testing

Unit testing focuses on verifying the functionality of individual components of the Procrastinot platform. These tests target specific functions and methods, such as task creation, timer function-

ality, and goal tracking. Each unit is tested independently to ensure it performs as expected. For example, testing the function that adds tasks or sets timers would confirm that these components work in isolation, leading to fewer errors in the final application.

5.2.2 Integration Testing

Integration testing examines how different components of the Procrastinot platform interact with each other. This phase ensures that all modules, such as task scheduling, timer functionalities, and goal setting, communicate effectively and pass data as expected. By detecting issues early, integration testing helps improve system reliability, ensuring smooth interaction between various features before deployment.

5.2.3 White Box Testing

White box testing evaluates the internal workings of the Procrastinot platform. Testers examine the code, logic, and flow of the system to ensure that every path, branch, and function operates correctly. This testing is essential for identifying potential inefficiencies or logic errors within the codebase. It helps refine the code by uncovering hidden bugs and ensuring that every process runs as intended.

5.2.4 Black Box Testing

Black box testing assesses the external behavior of the Procrastinot platform, focusing on how the system performs from the user's perspective. Testers evaluate the platform based on inputs and expected outputs without knowledge of the internal code. This form of testing ensures that the platform functions correctly in real-world scenarios, addressing concerns like user interface functionality, task management, and progress tracking. Common techniques include equivalence partitioning, boundary value analysis, and decision table testing.

5.3 Validation

Validation is a critical process that verifies whether the Procrastinot platform meets user requirements and operates correctly. Validation checks ensure that inputs are accurate, systems behave as expected, and the platform adheres to specified standards.

5.3.1 Validation in User Registration Form

The user registration form in Procrastinot includes several validation steps to ensure that users enter correct and consistent information. The form checks if the passwords match, verifies whether

the username and email are already in use, and ensures that no duplicate registrations occur. Specifically, it compares the password and password confirmation fields to confirm they are identical. If any validation check fails, appropriate error messages are displayed to guide the user in providing valid input before proceeding. This method ensures data integrity and guarantees that the registration process is smooth and error-free, enhancing the overall user experience. The given code performs a series of checks before creating a user, ensuring that each registration is valid and the data is correct. The user is only redirected to the next page after successful validation, maintaining a secure and efficient registration process. Below is an example of how validation is implemented in the user registration process:

```
def register(request):
    if request.method == "POST":
        username = request.POST.get('username')
        email = request.POST.get('email')
        password = request.POST.get('password')
        password_confirm = request.POST.get('password_confirm')

        if password == password_confirm: #check if password match
            if not User.objects.filter(username=username).exists():
                user = User.objects.create_user(username=username, password=password)
                user.save()
                messages.success(request, "Account created successfully!")
                return redirect('login') # Ensure 'login' matches the URL name
            else:
                messages.error(request, "Username already exists") #check if username exists
        else:
            messages.error(request, "Passwords do not match") #check the password confirmation

    return render(request, 'timer/registration/register.html')
```

Chapter 6

CONCLUSION

The "Procrastinot" project has achieved its goal of creating a user-friendly virtual study planner tailored to enhance student productivity and time management. This platform integrates essential tools like a customizable Pomodoro timer, task manager, goal setting, and an interactive calendar, helping users organize and track their daily tasks efficiently. Developed with Django, Procrastinot emphasizes security, scalability, and database management, with a robust user authentication system to ensure secure, personalized experiences. The intuitive and visually appealing design encourages user engagement, making task management seamless. Procrastinot goes beyond a simple task tracker by offering insights into users' productivity habits and helping them optimize study routines. It is a valuable resource for students aiming to achieve academic goals while managing their time effectively. Future enhancements will continue to improve functionality, ensuring Procrastinot remains an indispensable productivity tool for students.

Chapter 7

SCOPE FOR FUTURE ENHANCEMENT

The future scope for enhancing Procrastinot includes adding features to make it a more versatile productivity tool. Key improvements could involve integrating AI-driven suggestions for task prioritization and study techniques, providing users with personalized insights based on their progress and activity patterns. Enhanced data analytics can offer users more detailed performance insights, such as time spent per task category and achievement trends, enabling them to optimize their schedules further. Additional functionalities, like collaborative planning, would allow users to share tasks or goals within study groups, fostering teamwork and accountability. Expanding mobile compatibility and implementing offline access would make Procrastinot even more accessible, letting users plan and track progress without internet connectivity. Moreover, integrating reminders and push notifications for task deadlines and study sessions would enhance time management. Finally, incorporating habit-tracking tools, customizable themes, and accessibility improvements can make the platform more engaging and inclusive. By adopting these features, Procrastinot can evolve into a comprehensive academic and personal productivity tool that not only helps students manage time but also continuously adapts to their needs and supports them in achieving broader goals.

APPENDICES

Appendix A

SCRUM PROCESS ARTIFACTS

A.1 Product Backlog

Priority	Product backlog items	User story	Estimate (Hours)
1	Database setup	As a developer, I want to design and implement a database to store user data, tasks, schedules, and events.	240
2	User authentication	As a user, I want to register, login, and securely access my account.	160
3	Task management	As a user, I want to add, view, update, and delete my tasks so that I can manage my daily activities.	200
4	Timer functionality	As a user, I want a customizable Pomodoro timer to track my productivity and breaks.	180
5	Schedule and calendar view	As a user, I want to view and manage my weekly/monthly schedule to plan my activities effectively.	220
6	Goal setting	As a user, I want to set, track, and complete goals to monitor my progress over time.	140
7	Notes	As a user, I want to add notes and edit notes for my tasks and plans.	100

A.2 Scrum Meeting Details

Sl. No.	Date	Sprint backlog	Product shippable Increment	Important Decisions
1	05-08-2024	Problem identification	Done	Discuss various planner applications
2	06-08-2024	Topic selection	Done	Finalized on 'Procrastinot' as a virtual study planner
3	08-08-2024	Requirement elicitation	Done	Discuss user authentication, task management, and timer features
4	09-08-2024	Project proposal preparation	Done	Review and finalize project proposal content
5	12-08-2024	Project proposal submission	Done	Submit project proposal to stakeholders
6	20-08-2024	Design of login page	Done	Decide on template and layout for login page
7	01-09-2024	Designing main pages	Done	Develop registration and main dashboard pages
8	09-09-2024	Database creation	Done	Set up database schema and tables
9	10-10-2024	Initial coding	Done	Begin coding for authentication and task management
10	02-11-2024	Validation checks	Done	Conduct validation checks and debug errors

Appendix B

DIAGRAMS

B.1 Entity Relationship Diagram

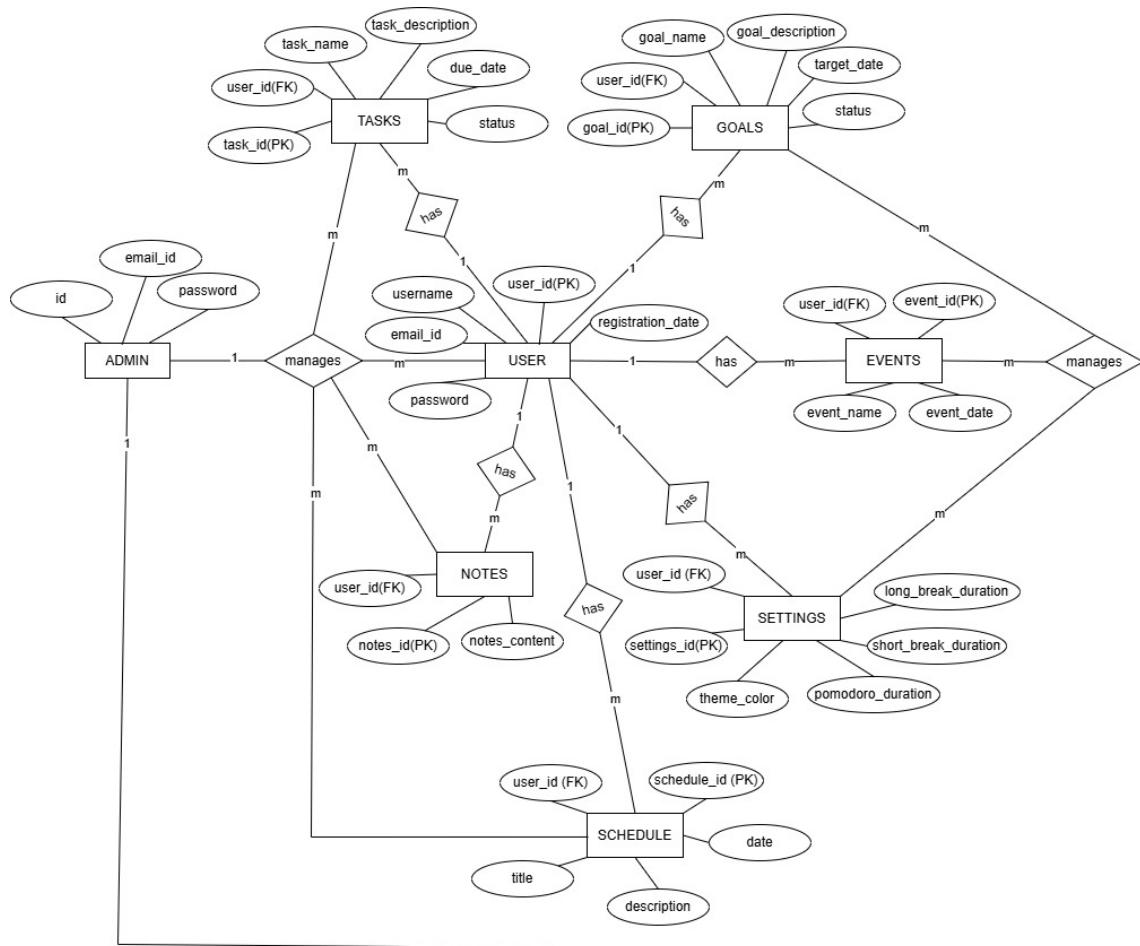


Figure B.1: Entity Relationship Diagram

Appendix C

TABLE STRUCTURE

Sl. No.	Field	Datatype	Constraint	Description
1	Reg_ID	Number	Primary Key	Registration Identifier
2	Stud_ID	Number	Foreign Key	Links to Student Table
3	Course_ID	Number	Foreign Key	Links to Course Table
4	Registration_Date	Date	Not Null	Date of Registration

Table C.1: Registration Table

Sl. No.	Field	Datatype	Constraint	Description
1	Event_ID	Number	Primary Key	Unique identifier for each event
2	Event_Name	Text	Not Null	Name of the event
3	Event_Date	Date	Not Null	Date of the event
4	Event_Details	Text	Nullable	Description of the event

Table C.2: Events Table

Sl. No.	Field	Datatype	Constraint	Description
1	Goal_ID	Number	Primary Key	Unique identifier for each goal
2	Goal_Name	Text	Not Null	Name of the goal
3	Target_Date	Date	Not Null	Target completion date for the goal
4	Status	Text	Default 'Pending'	Status of the goal (e.g., Pending, Completed)

Table C.3: Goals Table

Sl. No.	Field	Datatype	Constraint	Description
1	Note_ID	Number	Primary Key	Unique identifier for each note
2	Note_Title	Text	Not Null	Title of the note
3	Note_Content	Text	Nullable	Content of the note
4	Created_Date	Date	Not Null	Date the note was created

Table C.4: Notes Table

Sl. No.	Field	Datatype	Constraint	Description
1	Schedule_ID	Number	Primary Key	Unique identifier for each schedule entry
2	Date	Date	Not Null	Date of the schedule entry
3	Start_Time	Time	Not Null	Start time of the scheduled event
4	End_Time	Time	Not Null	End time of the scheduled event
5	Description	Text	Nullable	Description of the scheduled event

Table C.5: Schedule Table

Sl. No.	Field	Datatype	Constraint	Description
1	Task_ID	Number	Primary Key	Unique identifier for each task
2	Task_Name	Text	Not Null	Name or title of the task
3	Due_Date	Date	Nullable	Due date for the task
4	Priority	Text	Default 'Normal'	Priority level of the task (e.g., Low, Normal, High)
5	Status	Text	Default 'Pending'	Status of the task (e.g., Pending, Completed)

Table C.6: Tasks Table

Appendix D

SAMPLE SCREENSHOTS

The screenshot shows the homepage of the ProcrastiNOT website. At the top, there's a purple header bar with the title "ProcrastiNOT" on the left and navigation links for "Home", "Features", "About", "Login", and "Register" on the right. Below the header is a large, dark-themed banner featuring a photograph of a study setup with a laptop, a cup of coffee, and a smartphone on a wooden desk. The text "Welcome to ProcrastiNOT" is prominently displayed in white. A descriptive paragraph below it reads: "Your Ultimate Study Planner to Boost Productivity. ProcrastiNOT offers a range of features designed to help you stay focused and manage your study time effectively. With tools like task management, a Pomodoro timer, and detailed progress tracking, Day scheduling way you can easily organize your study sessions and achieve your goals with confidence." The main content area is titled "Features" and contains six purple cards, each representing a different tool: "Task Management" (calendar icon), "Pomodoro Timer" (clock icon), "Time Scheduler" (list icon), "Goal Setting" (target icon), "NoteHub" (document icon), and "Calendar" (calendar icon). Each card has a brief description. At the bottom, there's a section titled "About Procrastinot" with a paragraph of text and the same study setup photograph in the background. The footer is a dark bar with the copyright notice "© 2024 ProcrastiNOT - All Rights Reserved | Privacy Policy".

Figure D.1: Index Page

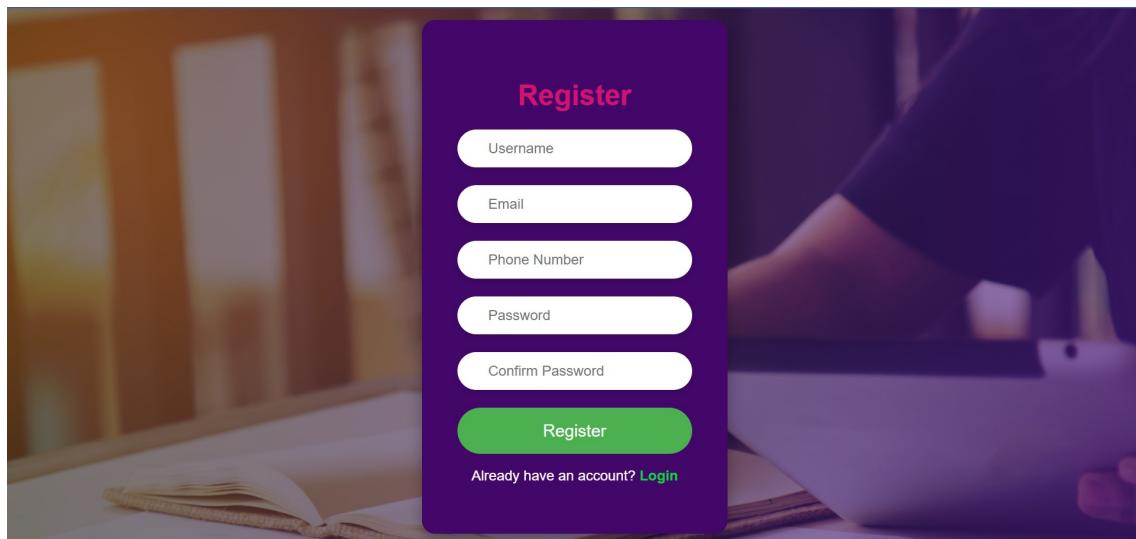


Figure D.2: Register Page

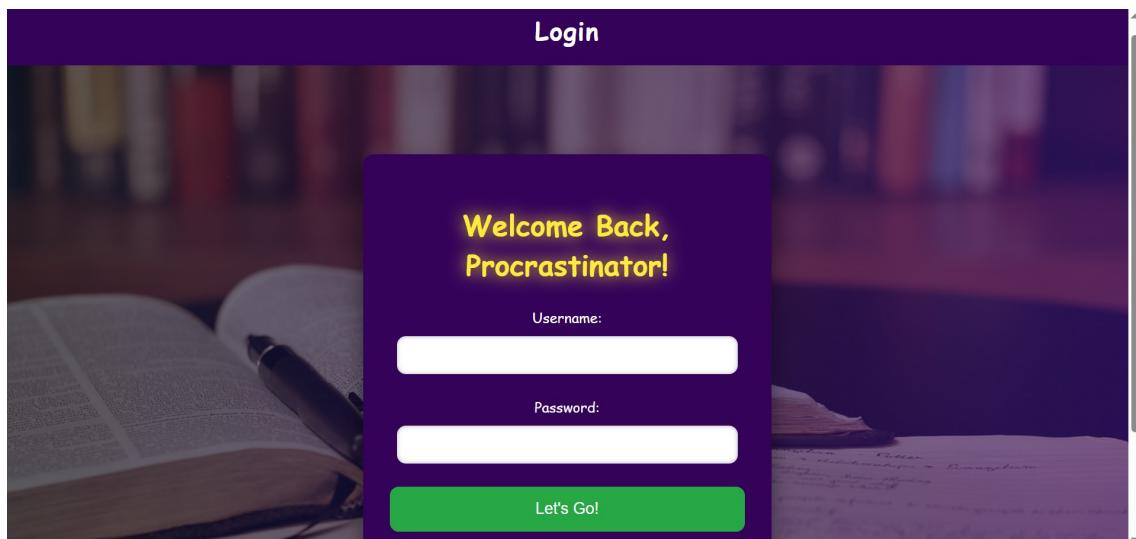


Figure D.3: Login Page

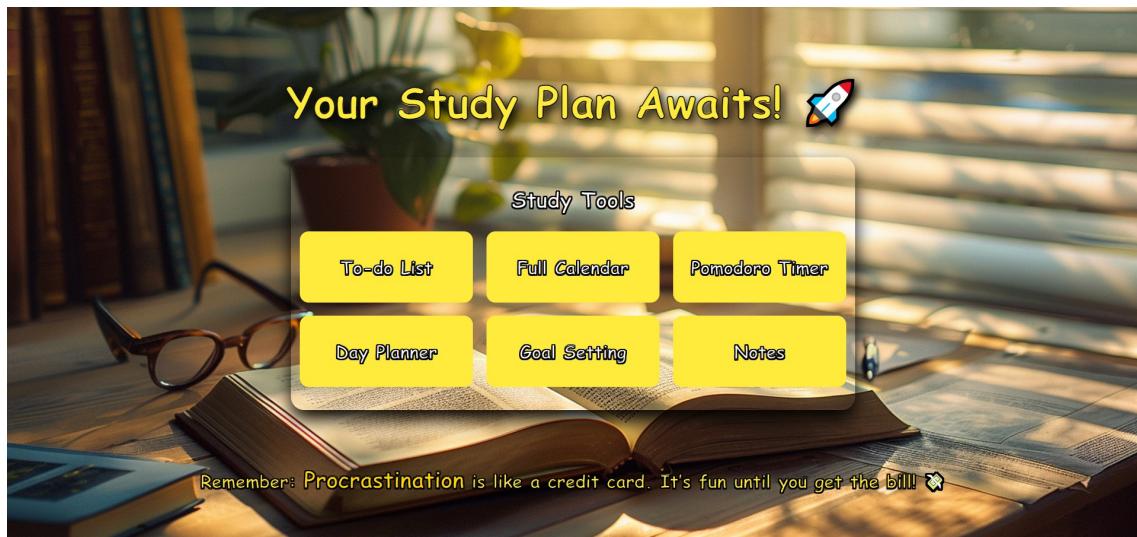


Figure D.4: Dashboard

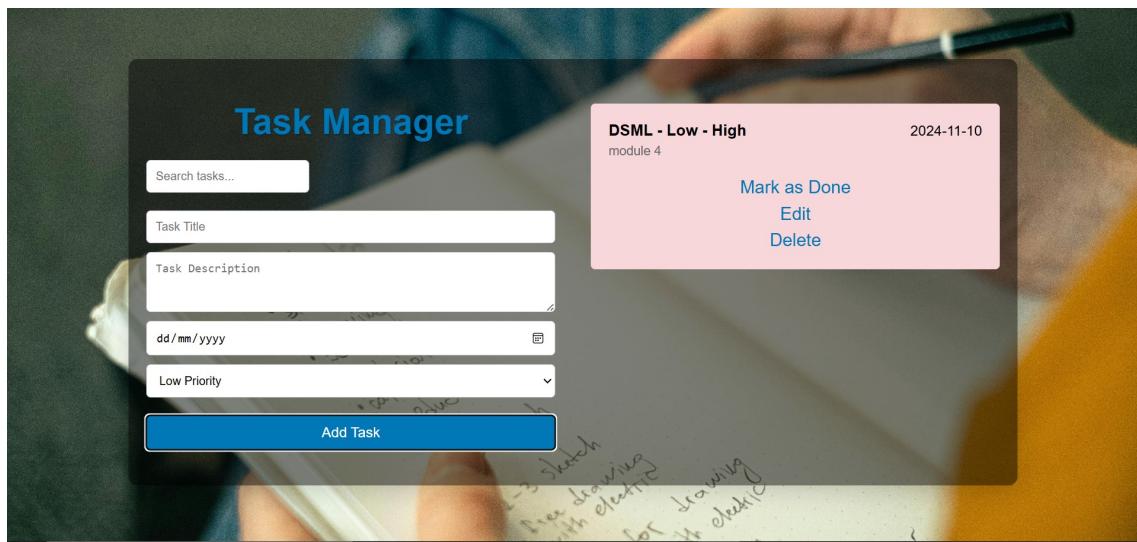


Figure D.5: To do list

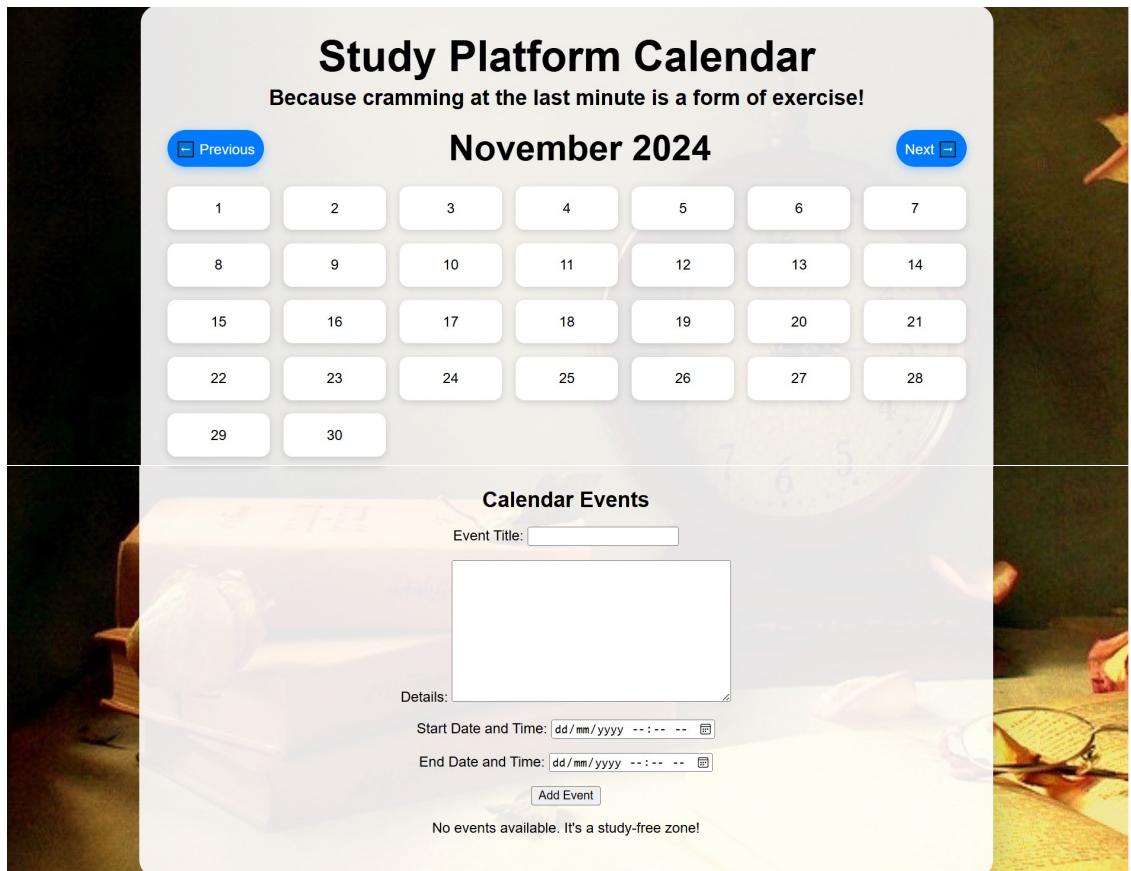


Figure D.6: Calendar

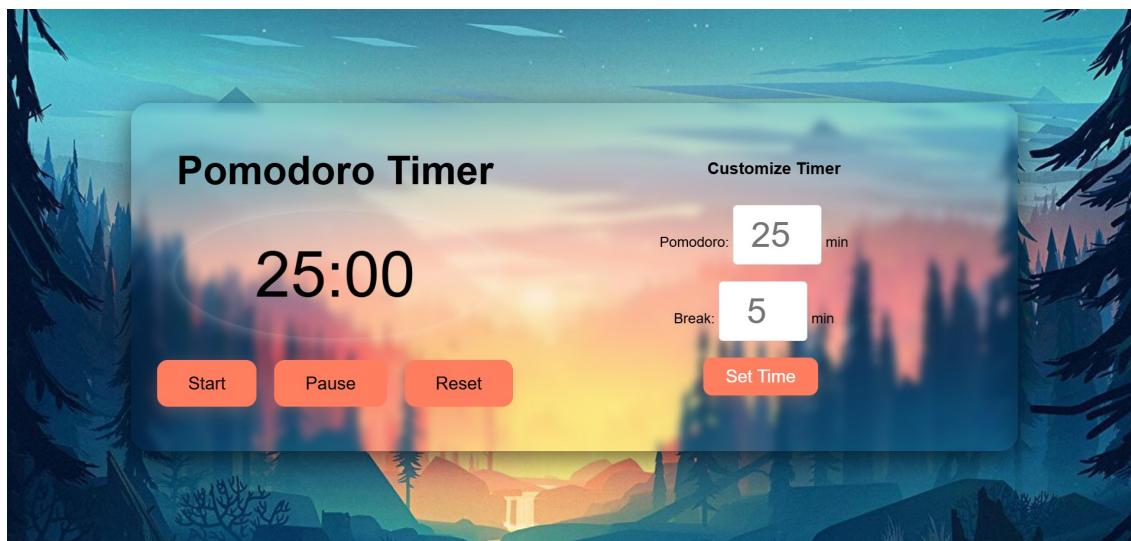


Figure D.7: Pomodoro Timer

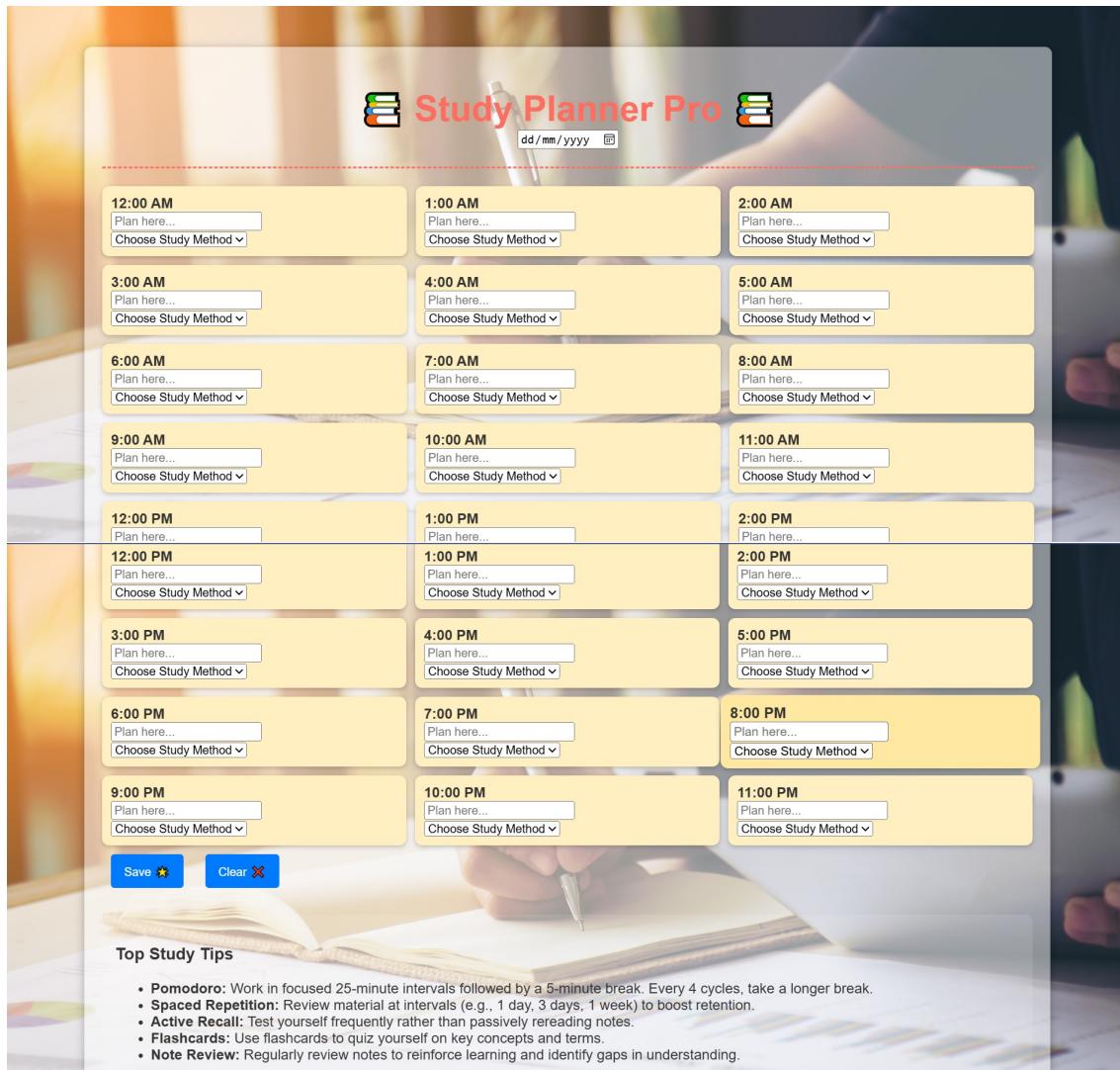


Figure D.8: Day planner

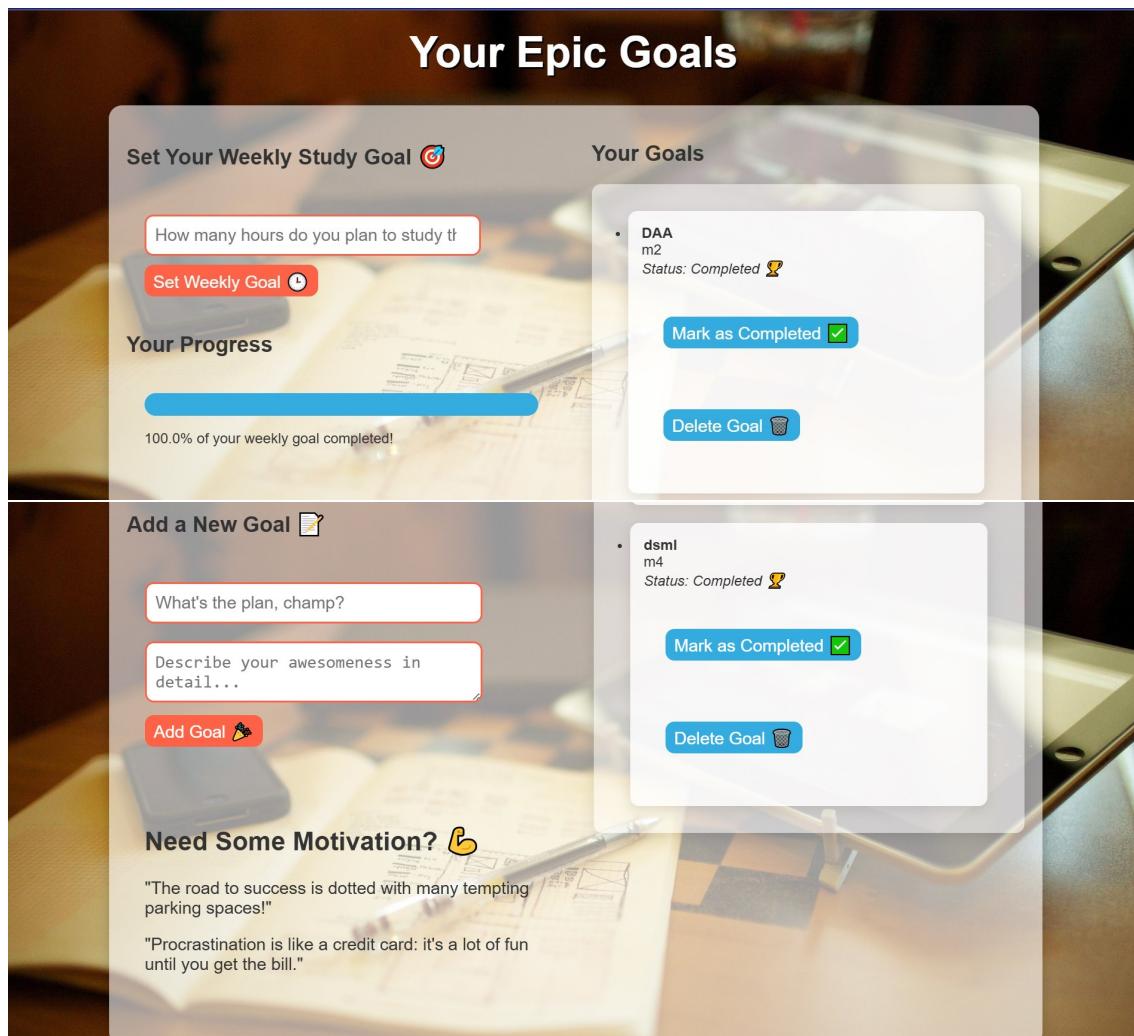


Figure D.9: Goal Page

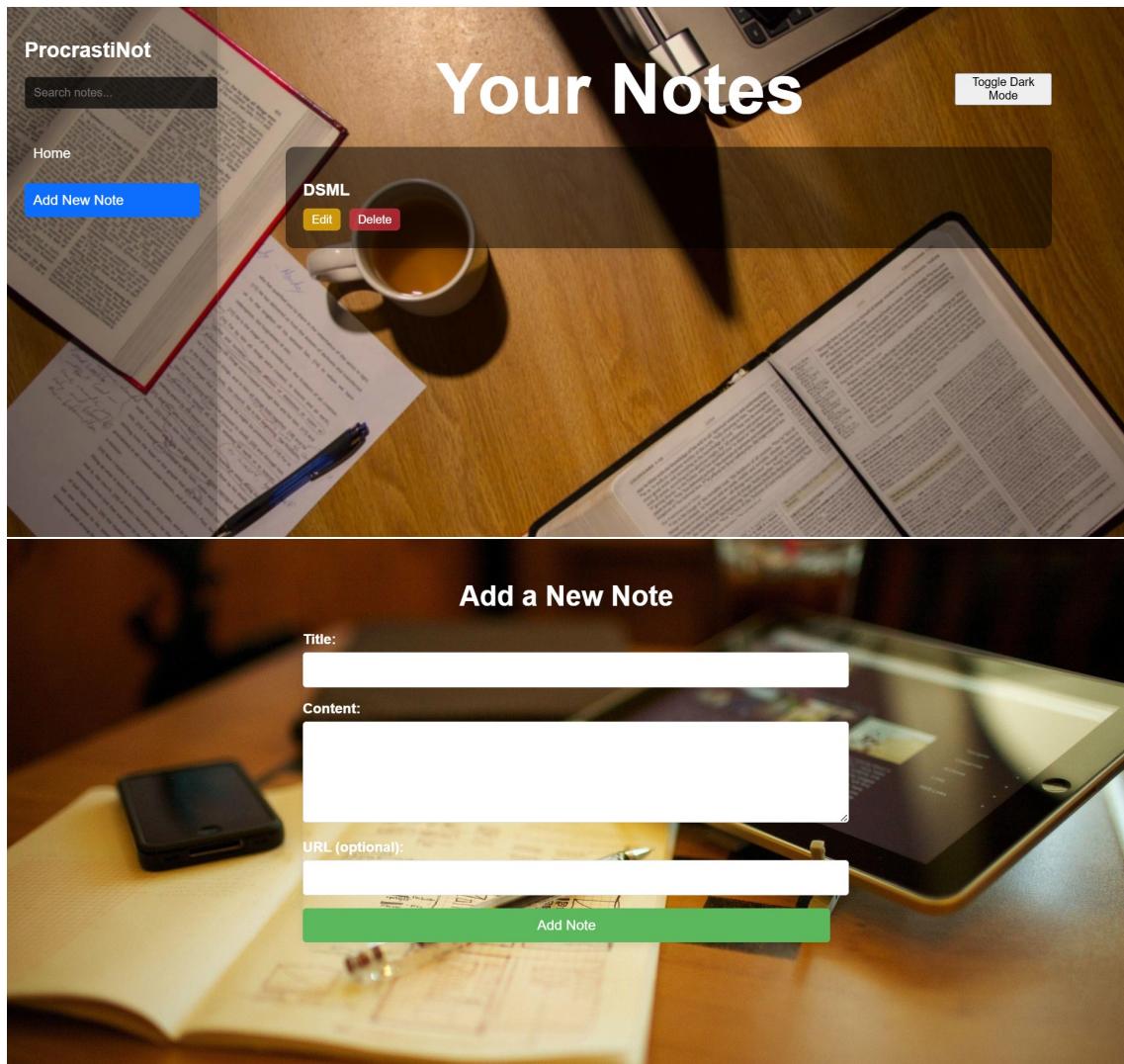


Figure D.10: Notes

Bibliography

- [1] *First Lessons in L^AT_EX*, by Dr. V N Krishnachandran, Vidya Academy of Science & Technology, Thrissur - 680 501, 2011.
- [2] *CSS Flexbox Layout*, by W3Schools, 2024.



Department of Computer Applications
Vidya Academy of Science & Technology
Thalakkottukara, Thrissur - 680 501
(<http://www.vidyaacademy.ac.in>)