Smart Internz

FRONTEND DEVELOPMENT

TITLE OF THE PROJECT:

TO-DO APP

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Behind any major work undertaken by an individual there lies the contribution of the people who helped him to cross all the hurdles to achieve his goal. It gives me the immense pleasure to express my sense of sincere gratitude to- wards my respected guide **Mr. D. RAMESH**, for his persistent, outstanding, invaluable co-operation and guidance. It is my achievement to be guided under him. He is a constant source of encouragement and momentum that any intricacy becomes simple. I gained a lot of invaluable guidance and prompt suggestions from him during entire project work. I will be indebted of him forever and I take pride to work under him.

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ABSTRACT

To-do App designed to transform the way users organize and approach their daily tasks. Efficient task management is essential for maintaining productivity and achieving personal and professional goals. Traditional task lists and pen-and-paper methods often fall short in handling the complexity of modern-day responsibilities. The To-do App addresses these challenges by offering a comprehensive set of features tailored to meet the diverse needs of users across various domains. To-do App represents a significant step towards optimizing productivity without sacrificing mental and physical health. By embracing this innovative tool, users can rediscover the joy of task accomplishment, improve work-life harmony, and unlock their true potential for success and happiness.

CONTENTS

S.No	Title	Page.No
	ACKNOWLEDGEMENT	I
	ABSTRACT	II
1	INTRODUCTION	1
2	LITERATURE SURVEY	3
3	THEORETICAL ANALYSIS	5
4	RESULT	9
5	ADVANTAGES AND DISADVANTAGES	10
6	APPLICATIONS	12
7	FUTURE SCOPE	13
8	CONCLUSION	14

1. INTRODUCTION

1.1 Overview

To-do app is a feature-rich and user-friendly application designed to help individuals manage their tasks effectively. It provides an intuitive interface to create, organize, and track to-do items effortlessly. Whether it's personal tasks, work-related assignments, or any other daily activities, To-do app is here to streamline your productivity.

1.2 Purpose

The purpose of a todo list app is to help users organize, manage, and prioritize their tasks and activities effectively. It serves as a digital tool to keep track of all the tasks they need to accomplish, ensuring that nothing important gets overlooked or forgotten. Some of the key purposes and benefits of a todo list app include:

Task Organization: It allows users to create a list of tasks and categorize them based on different criteria, such as priority, due date, or project.

Task Prioritization: Users can prioritize tasks based on urgency and importance, ensuring they focus on what matters most.

Time Management: A todo list app helps users allocate time efficiently, enabling them to plan their day, week, or month effectively.

Productivity: By having a clear overview of their tasks, users can boost their productivity and stay focused on completing the most critical activities.

Reminders and Notifications: The app can send reminders and notifications to users about upcoming tasks or approaching deadlines.

Collaboration: Some todo list apps offer collaboration features, allowing multiple users to work together on shared tasks or projects.

Goal Tracking: Users can set long-term goals and break them down into smaller tasks using the app, making it easier to track progress and achieve objectives.

Reduce Mental Burden: Writing down tasks in a todo list reduces the cognitive load, as users no longer need to remember everything they have to do.

Flexibility: Many todo list apps are available across different devices and platforms, enabling users to access and update their tasks from anywhere.

Insights and Reports: Some apps provide insights and reports on task completion rates and overall productivity, helping users identify areas for improvement.

Overall, a todo list app is a valuable tool for individuals and professionals alike, supporting them in staying organized, focused, and on top of their commitments.

2. LITERATURE SURVEY

2.1 Contemporary Issue

To-do list apps are valuable for organizing tasks, but they come with challenges. Users may feel overwhelmed with too many tasks, struggle to prioritize effectively, or neglect the app over time. Real-time updates and integration issues can lead to confusion, while poor reminder management may result in task delays. Additionally, concerns about data security and privacy can be present. Addressing these issues requires user feedback and continuous improvement in app design and features to maintain their effectiveness as productivity tools.

2.2 Resolution

The To-do app is designed with a clean and modern approach, providing users with a delightful experience. Key components of the user interface include:

Dashboard: The central dashboard displays all the user's tasks, categorized based on priority and due dates.

Add Task Section: A user-friendly input section with fields to enter task details, set priority, due dates, and add tags.

Task List: A visually appealing list displaying all tasks with clear indicators for completed and upcoming tasks.

Task Details: A task details panel that shows additional information like notes and due dates when a task is selected.

Categories & Tags Section: A section where users can manage categories and tags to organize their tasks effectively.

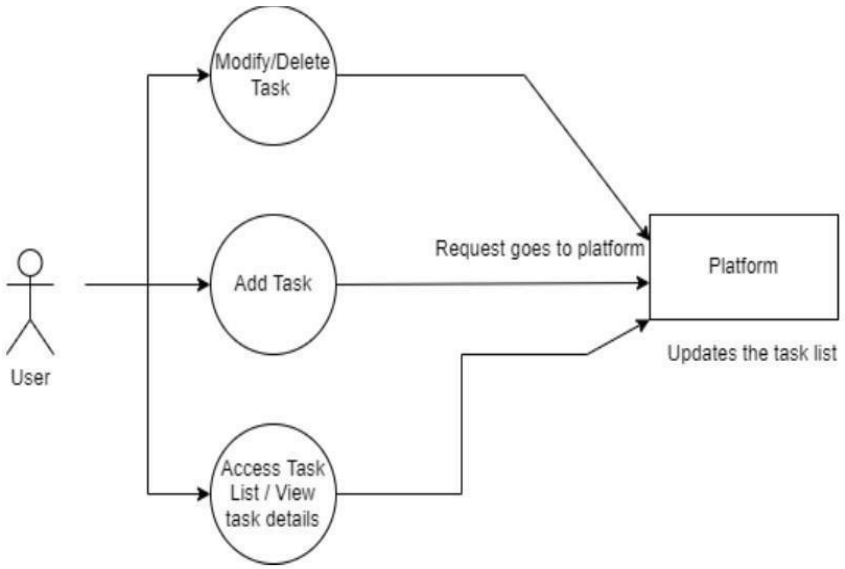
Reminders: A separate section to set and manage reminders for critical tasks.

Settings & Preferences: A settings menu to manage user preferences, account details, and synchronization options.

3.THEORETICAL ANALYSIS

The theoretical analysis of a Todo app project involves designing a user-friendly interface for task management with features like task priority, due dates, and optional reminders.

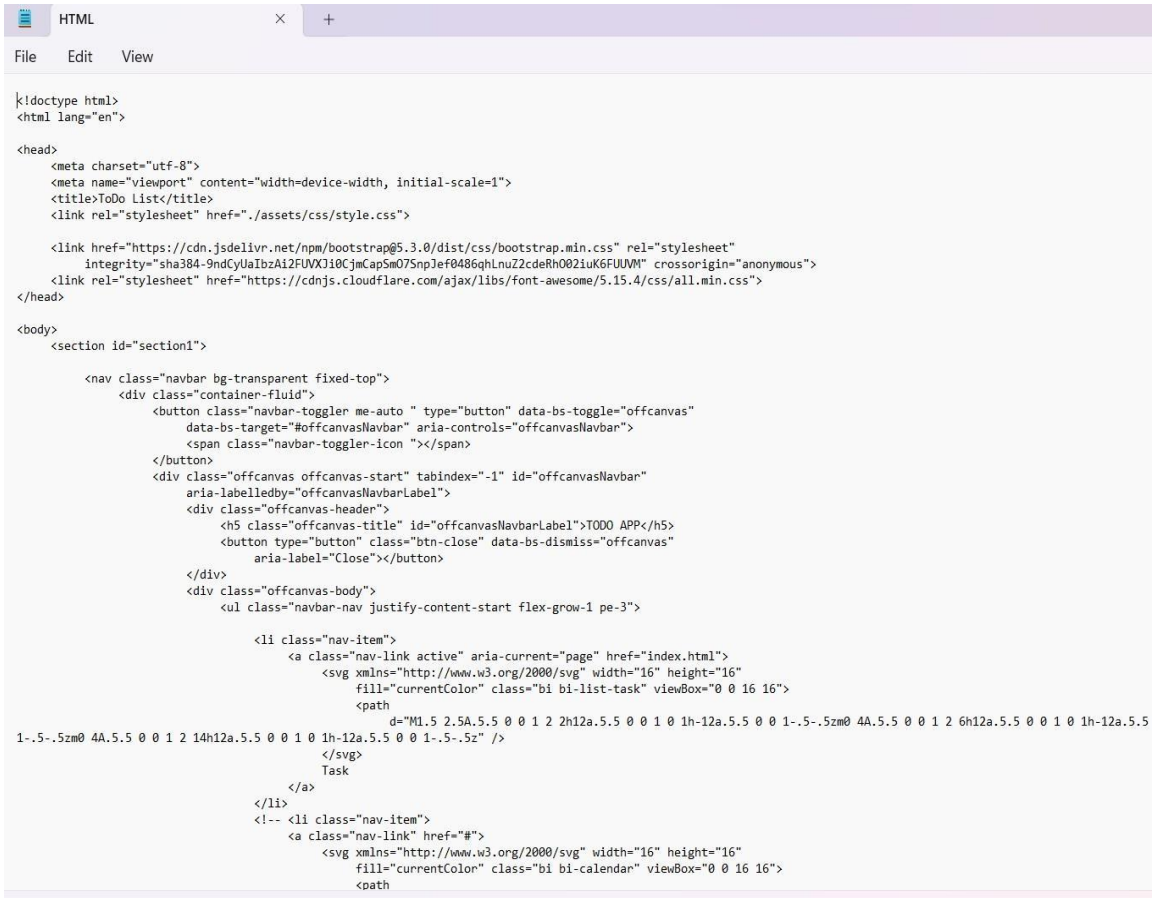
3.1 Block Daigram



This block diagrams shows that how to use the to-do app by user and how it works by different options that are included in that user interface page of to-do app. When the user click the options on which was showing on user interface page like add task or modify task or delete task..etc., The request directly goes to the platform of web page and update the task list and the updated tasks are shown in user interface page.

3.2 Software Designing

Todo app is built using cutting-edge technologies to ensure optimal performance, security, and a seamless user experience.We developed to-do app by frontend technologies like HTML, CSS, and JavaScript, along with modern frameworks for responsive and interactive design. As we did this project based on HTML ,CSS, JAVASCRIPT programming languages.The below images shows the code about these three languages as reference code or image.



```
HTML

File  Edit  View

k!doctype html>
<html lang="en">

<head>
     <meta charset="utf-8">
     <meta name="viewport" content="width=device-width, initial-scale=1">
     <title>ToDo List</title>
     <link rel="stylesheet" href="./assets/css/style.css">

     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"
          integrity="sha384-9ndCyUaIbzAi2FUVXJi0CjmCapSmO7SnpJef0486qhLnuZ2cdeRhO02iuK6FUUVM" crossorigin="anonymous">
     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css">
</head>

<body>
     <section id="section1">

          <nav class="navbar bg-transparent fixed-top">
               <div class="container-fluid">
                    <button class="navbar-toggler me-auto " type="button" data-bs-toggle="offcanvas"
                         data-bs-target="#offcanvasNavbar" aria-controls="offcanvasNavbar">
                         <span class="navbar-toggler-icon "></span>
                    </button>
                    <div class="offcanvas offcanvas-start" tabindex="-1" id="offcanvasNavbar"
                         aria-labelledby="offcanvasNavbarLabel">
                         <div class="offcanvas-header">
                              <h5 class="offcanvas-title" id="offcanvasNavbarLabel">TODO APP</h5>
                              <button type="button" class="btn-close" data-bs-dismiss="offcanvas"
                                   aria-label="Close"></button>
                         </div>
                         <div class="offcanvas-body">
                              <ul class="navbar-nav justify-content-start flex-grow-1 pe-3">

                                   <li class="nav-item">
                                        <a class="nav-link active" aria-current="page" href="index.html">
                                             <svg xmlns="http://www.w3.org/2000/svg" width="16" height="16"
                                                  fill="currentColor" class="bi bi-list-task" viewBox="0 0 16 16">
                                                  <path
                                                       d="M1.5 2.5A.5.5 0 0 1 2 2h12a.5.5 0 0 1 0 1h-12a.5.5 0 0 1-.5-.5zm0 4A.5.5 0 0 1 2 6h12a.5.5 0 0 1 0 1h-12a.5.5
1-.5-.5zm0 4A.5.5 0 0 1 2 14h12a.5.5 0 0 1 0 1h-12a.5.5 0 0 1-.5-.5z" />
                                             </svg>
                                             Task
                                        </a>
                                   </li>
                                   <!-- <li class="nav-item">
                                        <a class="nav-link" href="#">
                                             <svg xmlns="http://www.w3.org/2000/svg" width="16" height="16"
                                                  fill="currentColor" class="bi bi-calendar" viewBox="0 0 16 16">
                                                  <path
```

HTML Code

File Edit View

```
#section2{
     margin-top: 10vh;
     padding:  1vh ;
}
.p {
     display: flex;
     align-items: center;
}

svg .bi {
     margin-right: 5px;
     /* Adjust the spacing between the icon and text */
}

.important {
     background-color: #fd826f !important;
     /* Change the background color to light red */
}


#calendar-picker-container , #time-picker-container{
     width: 50vh;
}

.action-Container{
     margin: 20px;
}

div .col-md-4{
     padding: 0vh 3vh;
     border-radius: 60px 60px 10px 10px;
     box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0, 0.23) 0px 6px 6px;
}

.card1{
     background-color: rgb(238, 177, 136) !important;
}
```

CSS Code

JAVASCRIPT

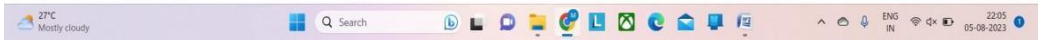
File Edit View

```
function saveDataToLocalStorage() {
    localStorage.setItem('tasks', JSON.stringify(tasks));
    localStorage.setItem('selectedDates', JSON.stringify(dates));
    localStorage.setItem('selectedTimes', JSON.stringify(times));
}

function loadDataFromLocalStorage() {
    const savedTasks = localStorage.getItem('tasks');
    const savedDates = localStorage.getItem('selectedDates');
    const savedTimes = localStorage.getItem('selectedTimes');

    if (savedTasks && savedDates && savedTimes) {
        tasks.push(...JSON.parse(savedTasks));
        dates.push(...JSON.parse(savedDates));
        times.push(...JSON.parse(savedTimes));

        for (let i = 0; i < tasks.length; i++) {
            const card = createCard(tasks[i].task, dates[i], times[i]);
            cardContainer.appendChild(card);
        }
    }
}

function checkDateTime() {
    const currentDate = new Date();
    const notificationTimeFrame = 0; // Specify the time frame in minutes

    let hasUnexpiredTasks = false;

    for (let i = tasks.length - 1; i >= 0; i--) {
        const taskDate = new Date(tasks[i].date);
        const taskTime = tasks[i].time.split(':');
        const taskDateTime = new Date(
            taskDate.getFullYear(),
            taskDate.getMonth(),
            taskDate.getDate(),
            taskTime[0],
            taskTime[1]
        );

        if (
            currentDate.getTime() >= taskDateTime.getTime() &&
            currentDate.getTime() <= taskDateTime.getTime() + notificationTimeFrame * 60 * 1000
        ) {
            // Task is due within the specified time frame
            if (!tasks[i].notified) {
                tasks[i].notified = true;
                playNotificationSound();
            }
            hasUnexpiredTasks = true;
        }
    }

    // Check if all tasks have been completed
    if (!hasUnexpiredTasks) {
        stopNotificationSound();
    }
}
```

JAVASCRIPT Code

4. RESULT

A to-do list app is a helpful tool for keeping track of tasks and staying organized. With it, you can write down all the things you need to do and set priorities. The app sends you reminders, so you don't forget important deadlines. By using the app regularly, you become more productive and efficient in managing your time. It's like having a personal assistant guiding you through your daily tasks. The app can also help you break down big goals into smaller steps, making them easier to achieve. You can collaborate with others, making it great for team projects or family tasks. Overall, a to-do list app keeps you focused, reduces stress, and ensures you don't miss anything important.



Output

5. ADVANTAGES AND DISADVANTAGES

Advantages

1. Organization: A to-do list project helps users organize their tasks and priorities in one place, making it easier to manage their workload.

2. Time Management: By setting deadlines and priorities, users can manage their time more efficiently and avoid procrastination.

3. Productivity: The project encourages users to complete tasks and achieve goals, leading to increased productivity.

4. Accountability: Having tasks listed and tracked in a to-do list project creates a sense of accountability, motivating users to accomplish their commitments.

5. Collaboration: In a collaborative environment, team members can work together, assign tasks, and share progress on a shared to-do list.

6. Goal Tracking: Users can break down long-term goals into smaller, actionable tasks, making it easier to track progress and stay on course.

7. Reminder System: The project's reminder system helps users remember important dates, deadlines, and events.

Disadvantages

1. Overwhelming: A large number of tasks or complex projects can lead to a sense of overwhelm, making it difficult to manage effectively.

2. Dependency: Some users may become overly reliant on the project, leading to reduced self-motivation and reliance on external reminders.

3. Time Consumption: Spending too much time managing the to-do list project can eat into valuable time that could be used for actual task completion.

4. Neglect: If not updated regularly, the project becomes less effective, and tasks may be forgotten or overlooked.

5. Inflexibility: The project's rigid structure may not suit all users' preferences or workflow, leading to resistance in adoption.

6. Distraction: Constantly checking and updating the to-do list project can be distracting, taking focus away from the actual tasks at hand.

7. Unrealistic Expectations: Setting too many tasks or overly ambitious goals can lead to frustration and demotivation when they cannot be achieved.

Overall, the advantages of a to-do list project outweigh the disadvantages, as long as users strike a balance between effective task management and not becoming overly reliant on the project itself. It is essential to use the project as a supportive tool rather than a burden that hinders productivity.

6. APPLICATIONS

Several popular to-do list and task management applications are available to help users stay organized and productive.

- Todoist, Microsoft To Do, Google Keep, and Trello offer a range of features to create and manage tasks, set reminders, and collaborate with others.

- Any.do, TickTick, and OmniFocus provide customizable lists, smart features, and project handling capabilities.

- Asana focuses on project management but can also be used for task tracking and team collaboration.

- Notion stands out as a versatile app combining to-do lists with note-taking and database features.

- Users can choose the app that best suits their preferences and productivity needs.

7. FUTURE SCOPE

The future scope of to-do list and task management applications looks promising, driven by technological advancements and evolving user preferences.

- Artificial Intelligence integration will enable smarter task prioritization and automated task management based on user behavior.
- Voice and natural language processing will make interaction more seamless and convenient.
- Virtual and augmented reality may offer more engaging and interactive task management experiences.
- Data analytics will provide users with valuable insights into their productivity patterns.
- Gamification elements could enhance motivation and reward completion of tasks. Collaboration features will facilitate teamwork on shared projects.
- Enhanced security measures will protect user data, and eco-friendly features might appeal to environmentally conscious users. As users continue to seek efficient and innovative solutions, to-do list apps will evolve to meet these demands, making them even more indispensable tools for task organization and productivity.

8. CONCLUSION

Todo app aims to simplify task management and boost productivity. With its rich feature set, intuitive interface, and seamless synchronization, users can stay organized, focused, and in control of their daily tasks. Whether you're a professional, student, or anyone seeking better task management, Todo app is the perfect tool to enhance your efficiency and accomplish more each day.