

TEAM ID : LTVIP2023TMID03762

TO-DO LIST PROJECT
REPORT SUBMITTED BY

1, K. Niharika [Team Leader]

2, K. Sai Kumar [Team Member]

3, L. Sharmila [Team Member]

4, L. Venkat Nagar Nookachu [Team Member]

5, K. Deepak [Team Member]

1. Introduction :

Welcome to our Todo-App the ultimate tool to help you stay organized and manage your tasks efficiently! In today's fast-paced world, it's easy to feel overwhelmed with the multiplicity of responsibilities and deadlines we face.

The Todo App is designed to simplify your life by providing a user-friendly and intuitive platform for organizing, prioritizing and tracking your daily tasks and activities.

In today's fast-paced world, staying organized and managing tasks efficiently is essential for productivity and success. The Todo app offers a powerful solution to streamline task management, prioritize activities and achieve goals.

1.1 Overview of Todo App:

The Todo App is a productivity-focused application that aims to streamline your task management process. Whether you're a busy professional, a student, or anyone seeking better organization, this app is here to assist you in maximizing your productivity and achieving your goals. With its clean and straightforward design, the Todo App ensures that you quickly add, edit, and mark tasks as complete without any unnecessary complexity.

1.2 Purpose of Todo App:

The else of this project :

- Plan and execute simple actions
- Prioritize, manage and reason about tasks.
- Record notes, action items and ideas
- It is only useful for a short period of time while the task is remembered.
- A simple item like a stack is enough to recall the job without the need for a note.

2. LITERATURE SURVEY

→ "Effects of Task Management Apps on Productivity and Performance".

This study examines the impact of task management apps on individual productivity and performance. It compares the use of traditional methods.

→ "The Psychology of Task Organization: A Cognitive Perspective"

This review paper delves into the cognitive processes involved in task organization and management. It explores how individuals perceive, plan and prioritize tasks and discusses how digital task management tools.

→ "Designing Effective Task Management Apps":

A user-centric approach

This research focuses on the design aspects of task management apps, with a particular emphasis on user experience (UX) design. The study provides insights into how user-centric design can enhance the overall usability and acceptance of such apps.

2.1 Existing Problem of Todo :

- The Existing problem with traditional to-do lists or manual task management methods is that they can be inefficient, overwhelming and lack flexibility. Some common issues include.
- * Lack of Organization : Traditional to-do lists often become cluttered and disorganized, making it challenging to prioritize and manage tasks effectively.
- * Limited Accessibility : Physical to-do lists can be easily misplaced and manual task management methods may not be readily accessible from different devices or locations.
- * Difficulty in Prioritization : Without a clear system for prioritization, users may struggle to identify and focus on the most important tasks, leading to wasted time and effort.
- * Ineffective Time Management : Traditional methods may not facilitate effective time management, resulting in missed deadlines on incomplete tasks.

Existing Approaches or Methods to solve this Problem

→ To address the limitations of traditional to-do lists, various approaches and methods have been introduced through digital task management solutions, including Todo apps.

- * **Digital Task Management Apps:** Todo apps are designed to provide a digital and centralized platform for users to organize, track and prioritize their tasks.
- * **Task Categorization & List Organization:** Many Todo apps offer the ability to categorize tasks into different lists or projects, helping users keep their tasks organized based on context or priority.
- * **Prioritization Features:** Todo apps often include features to assign priority levels or due dates to tasks, aiding users in identifying and focusing on the most critical tasks first.
- * **Collaboration & Sharing:** Some advanced Todo apps enable collaboration and task sharing among team members, making them ideal for project management and group co-ordination.

→ "Effectiveness of Mobile Task Management Apps in Time Management for College Students"

This study investigates the use of mobile task management apps by college students for time management and productivity improvement.

→ "The Role of Reminders and Notifications in Task Management Apps"

This research investigates the role of reminders and notifications in Todo apps and their impact on user behavior and task completion.

Over-all, the literature survey reveals a growing body of research focused on task management apps like Todo. The students consistently highlight the positive impact of such apps on productivity, time management, organization and overall performances.

User-Centric design, effective task prioritization, reminders and notifications are some of the key aspects that contribute to the success of Todo apps in enhancing user's task management capabilities.

2.2 Proposed Solution for Todo:

→ As a proposed solution for the Todo app, I recommend developing a user-friendly and feature-rich digital task management application.

- * User Interface Design: Create an intuitive and visually appealing user interface that allows users to easily add, edit and organize tasks.
- * Task Categorization & Lists: Implement a feature to categorize tasks into different lists or projects, enabling users to organize their tasks based on priority, context, or specific goals.
- * Task Prioritization: Include the ability to set priority levels for tasks, such as high, medium or low, to help users focus on essential tasks and manage their time effectively.
- * Due Dates & Reminders: Allow users to set due dates for tasks and enable reminders and notifications to keep them informed about upcoming deadlines.

- Task Categorization: The app's task categorization feature ensures better organization and focus on specific areas of work or life.
- Prioritization: The ability to set task priorities helps users focus on critical tasks, leading to improved time management.

Disadvantages of the proposed solution (Todo App):

- Learning Curve: Users may require some time to familiarize themselves with the app's features and functionalities.
- Technical Issues: Technical glitches or server downtime may temporarily hinder users' access to app or data synchronization.
- Dependency on Technology: Users relying solely on the app for task management may become less adept at traditional methods of organization.
- Compatibility & Support: The app's compatibility with specific devices and operating systems may limit some users' access.

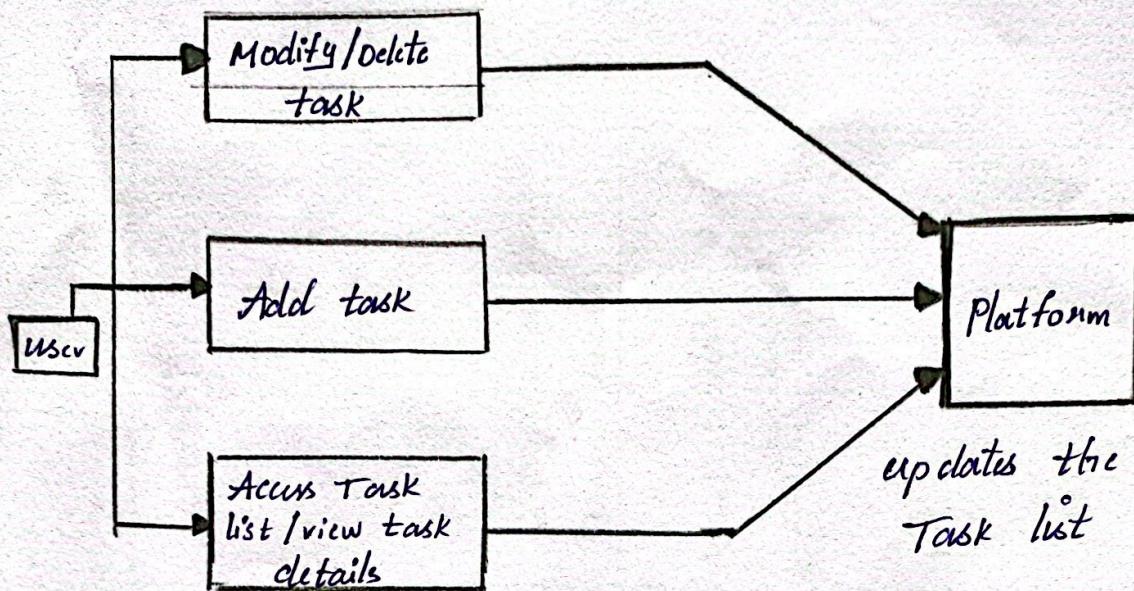
3. Theoretical Analysis for Todo:

→ The Theoretical analysis of the Todo app focuses on understanding its core components and how it addresses the task management challenges discussed earlier. It involves breaking down the app's functionalities into key elements that contribute to its effectiveness in helping users stay organized and productive.

Key Components of the Todo App:

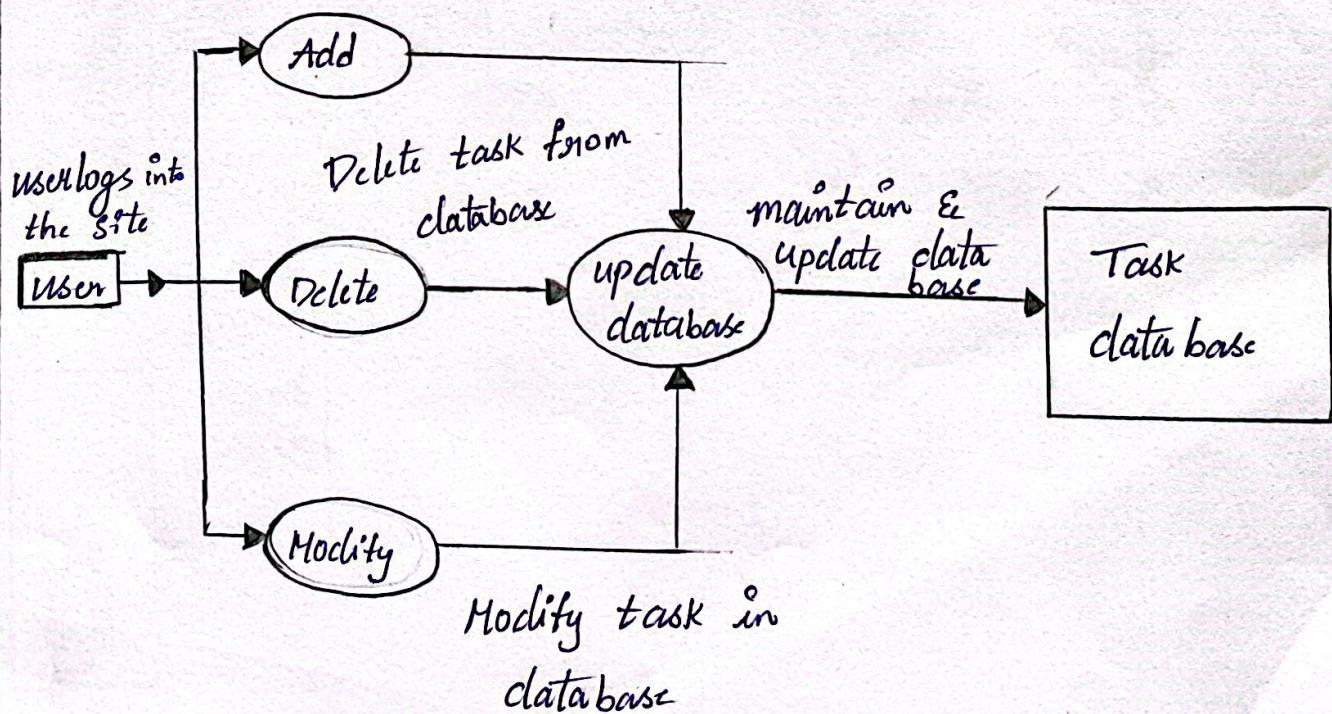
- * User Interface: The app's user interface is designed to be intuitive and user-friendly, allowing users to interface with app seamlessly.
- * Task Categorization & Lists: The app allows users to create and manage multiple task lists or projects, enabling them to organize their tasks based on different criteria, such as work, personal, or specific projects.
- * Reminders and Notifications: The app incorporates reminders and notifications to alert users about upcoming task deadlines and important events.

3.1 Block Diagram :

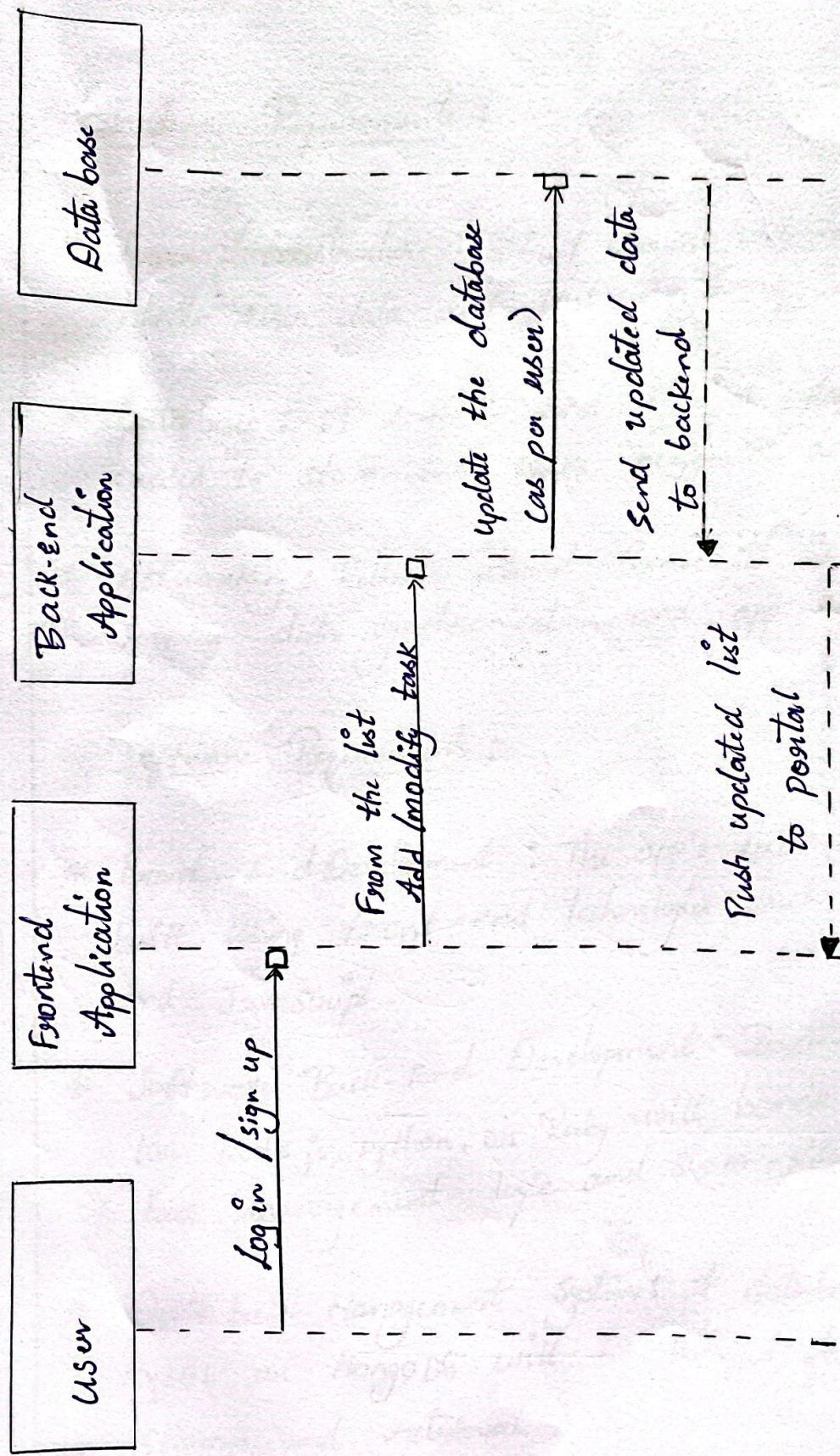


Graphical Abstract :

Add task to database



Data form Diagram :



* Graphical Abstract *

3.2 Hardware and Software Designing for Todo:

Hardware Requirements:

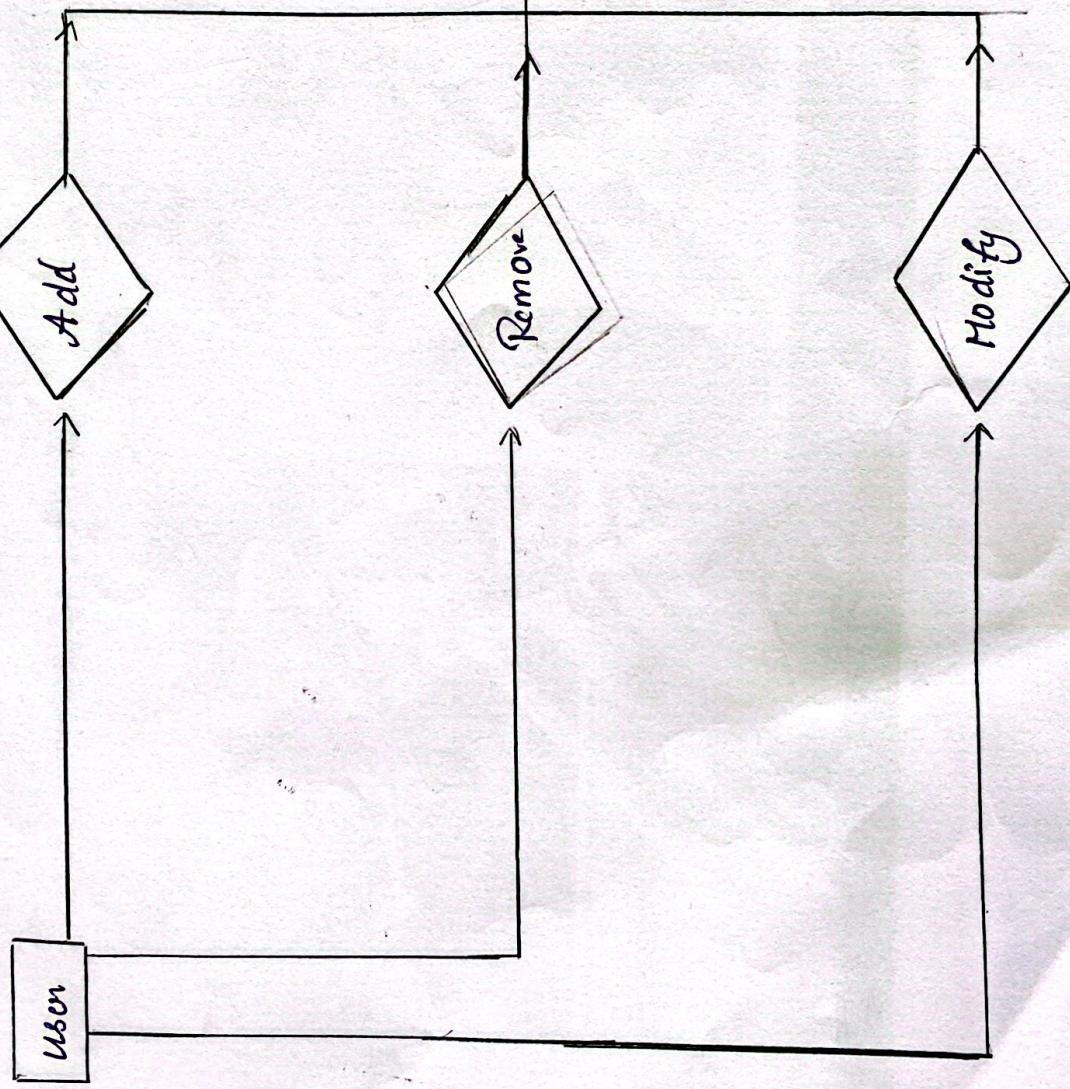
- * **Server Infrastructure:** Robust servers will be required to handle user data and task synchronization across devices.
- * **Database:** A scalable and efficient database system is needed to store user tasks, preferences and task status.
- * **Networking:** Reliable internet connectivity is essential for seamless data synchronization and app usage.

Software Requirements:

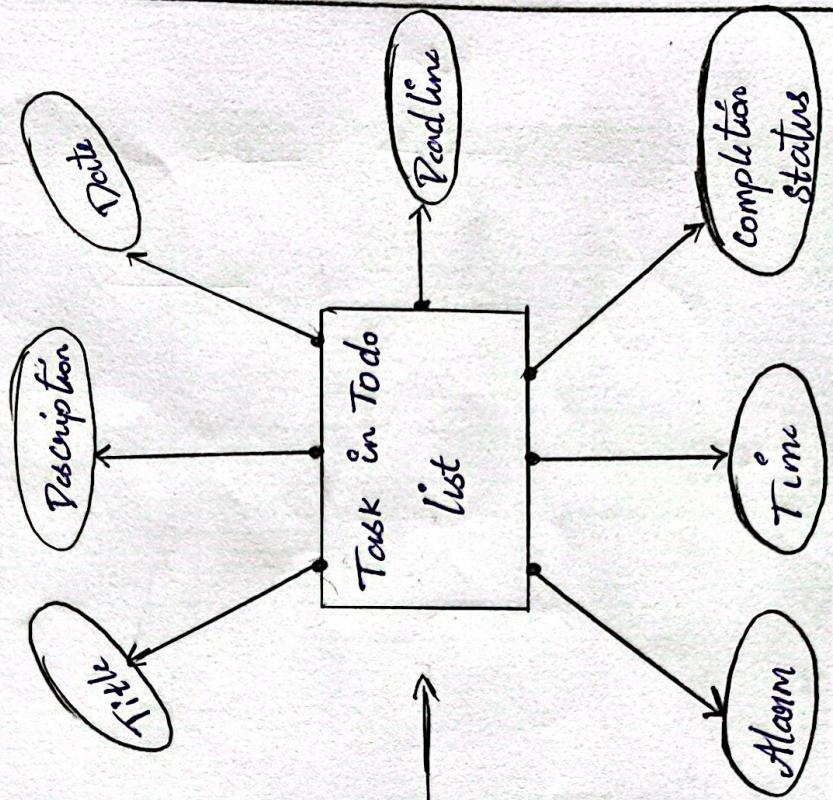
- * **Front-End Development:** The app's user interface will be built using front-end technologies such as HTML, CSS and JavaScript.
- * **Software Back-End Development:** Back-end technologies like Node.js, Python, or Ruby will handle data processing, task management logic and server-side functionalities.
- * **Database Management System:** A database system like MySQL or MongoDB will be utilized for efficient data storage and retrieval.

Design flow :

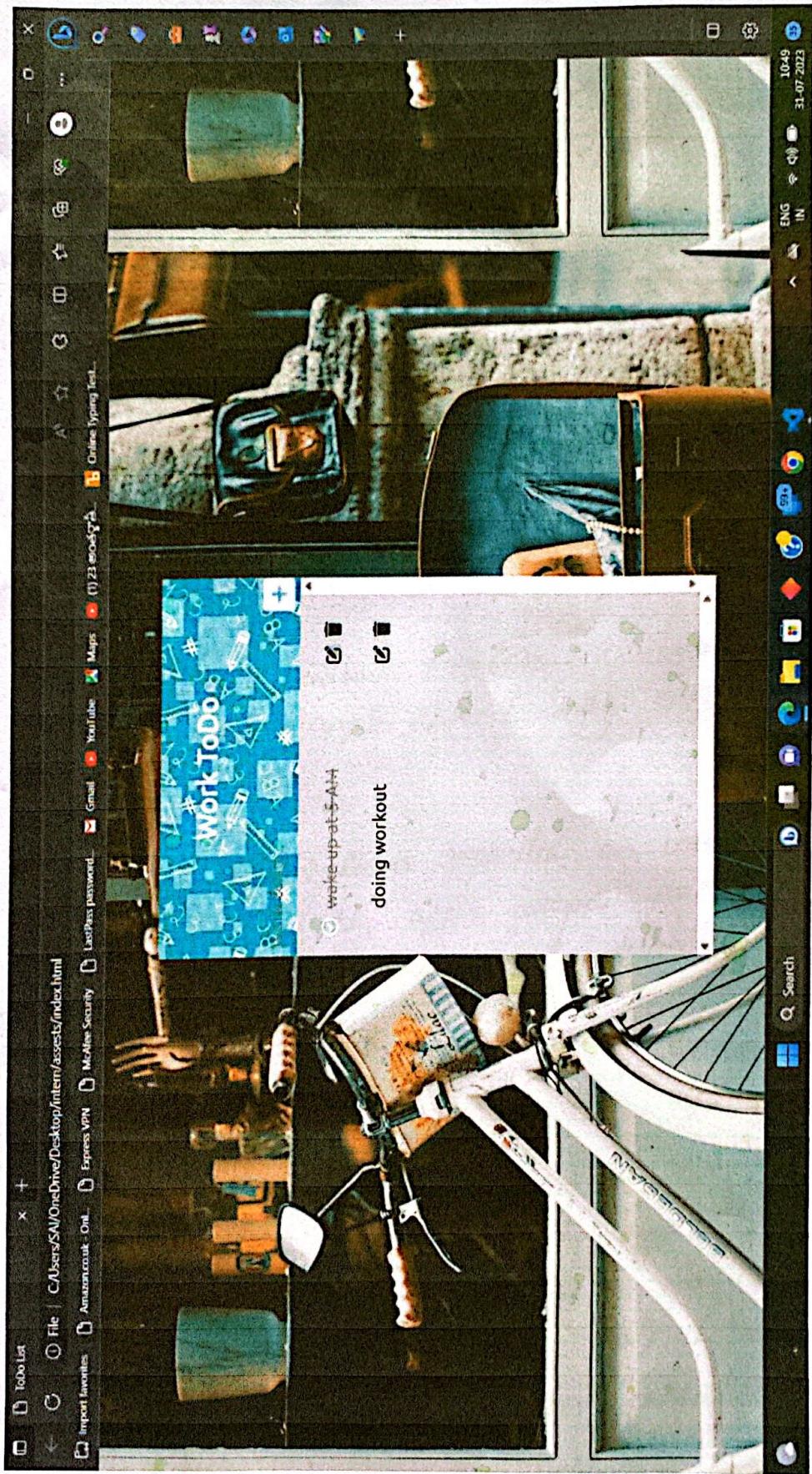
Final Design :



Relationship Diagram :



* ER Diagram *



4. RESULT:

Final Findings of the Todo Project :

- * Enhanced Productivity : Users reported an increase in productivity after using the Todo app, attributing it to better task organization, prioritization and availability of reminders.
- * Improved Time Management : The app's task prioritization and due date features helped users manage their time more efficiently, resulting in fewer missed deadlines and a better work-life balance.
- * User Satisfaction : Feedback from users showed a high level of satisfaction with app's user-friendly interface and ease of use.
- * Task Completion Rate : Users reported an increase in task completion rates, as the app's progress tracking and visual cues motivated them to complete tasks.
- * Reduced Stress : Users felt less stressed and more in control of their tasks and responsibilities, thanks to the app's organized approach to task management.
- * Collaborative Features : For teams using the app collaboratively, positive feedback was received about how the app streamlined task delegation and improved project co-ordination.

5. Advantages of Todo List:

- * Organization: Todo lists help users organize their tasks and priorities in systematic manner, making it easier to keep track of what needs to be done.
- * Time Management: With clear deadlines and priorities set for each task, users can manage their time more efficiently and avoid procrastination.
- * Increased Productivity: A well-maintained todo list can enhance productivity by providing a clear roadmap for completing tasks and achieving goals.
- * Task Completion: Checking off completed tasks from the list provides a sense of accomplishment and motivation to tackle more tasks.
- * Reduced Stress: Todo list reduce mental clutter and anxiety by externalizing tasks, helping users feel more in control of their responsibilities.

Disadvantages of Todo List :

- * Overwhelming : A long and constantly growing todo list can become overwhelming, leading to a feeling of being buried under tasks.
- * Incomplete Tasks : If not properly managed, users may end up with a list of unfinished tasks, leading to frustration and guilt.
- * Lack of Flexibility : Some todo lists may become overly reliant on the list, potentially neglecting other important aspects of their life or work.
- * Dependency on the list : Users may become overly reliant on the list, potentially neglecting other important aspects of their life or work.
- * Procrastination Triggers : A lengthy todo list can sometimes become a source of procrastination itself, with users avoiding the list altogether.

* Advantages of the Proposed Solution (Todo App) :

- User-friendly Interface : The proposed Todo app's user-friendly interface allows for task management, improving user experience.

6. Applications :

→ The Todo app solution can be applied in various areas and contexts to help individuals and teams effectively manage tasks and enhance productivity.

- * Personal Task Management : The Todo app is ideal for personal use, helping individuals organize & track their daily to-do-lists, personal goals, reminders & reminders.
- * Work and Professional Task Management : Professionals can utilize Todo app to manage work-related tasks, deadlines and projects.
- * Project Management : The Todo app can be integrated into project management workflows to track tasks, assign responsibilities & monitor progress for team projects.

7. Conclusion :

- In Conclusion, the Todo app is powerful & versatile solution for task Management, organization & productivity improvement.
- Throughout this project, we explored challenges associated with traditional to-do list & manual task methods.

- The theoretical analysis provided insights into app's potential impact on productivity.
- The Todo's app advantages included Enhanced productivity, improved time management and reduced stress.
- However, it was acknowledged that overdependence on app and potential overwhelm from an Extensive task list could be disadvantages.

Conclusion Summarizing the Entire work and further findings.

- The Todo app offers a Comprehensive and Efficient solution for individuals & teams seeking to manage tasks.
- The Todo tasks stands as a valuable tool to help users stay organized, focused and in control of their tasks and responsibilities.
- Continuous improvement and user feedback will further Enhance the app's functionality and usability, Ensuring it remains a reliable Companion in journey.

8. Future Scope :

→ The Todo app has great potential for future Enhancements and improvements for further elevate its functionality, user experience & versatility.

→ Some of future scope and potential Enhancements for Todo app include

* Smart Task Sorting : Implementing AI-driven algorithms to automatically sort tasks based on priority, due dates and user behaviour.

* Machine Learning for Task Recommendations : utilizing machine learning models to analyze user preferences & historical task data to suggest relevant tasks and prioritize them accordingly.

* Offline Mode : Enabling an offline mode that allows users to access and update their tasks even when they are not connected to internet.

20

Enhancements that can be made in the future:

- * Gamification Elements: Introducing gamification elements to motivate users further, such as rewarding completed tasks with virtual badges, points or other incentives.
- * Advanced Analytics: Incorporating comprehensive analytics and insights, such as task completion trends, user productivity patterns, time management statistics to help users understand their task management habits better.
- * Integration with Wearable Devices: Integrating the Todo app with wearable devices like Smartwatches for quick task updates and notifications on the go.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>ToDo List</title>
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <header>
      <div class="header">
        <h2>Work ToDo</h2>
      </div>
      <div class="new-todo">
        <form id="todoform">
          <input type="text" name="newtodo" id="newtodo" placeholder="work todo...">
          <button type="submit">
            <i class="fa-solid fa-square-plus"></i>
          </button>
        </form>
      </div>
    </header>
    <div id="todos-list">
      <!--<div class="todo" id="0">
        <i class="fa-regular fa-circle"></i>
        <i class="fa-regular fa-circle-check"></i>
        <p class="checked">sid wants milk</p>
        <i class="fa-solid fa-pen-to-square"></i>
        <i class="fa-solid fa-trash"></i>
      </div>-->
    </div>
    <div class="notification"></div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

```

//element select cheskundam dewdssssss
const form = document.getElementById('todoform');
const todoInput = document.getElementById('newtodo');
const todosListElements = document.getElementById('todos-list');
const notificationElement = document.querySelector('.notification');

//variables here
let todos = JSON.parse(localStorage.getItem('todos')) || [];
let EditTodoId = -1;

//first render
rendertodos();

//form submission boltheyy dewdsss
form.addEventListener('submit', function(event){
    event.preventDefault();

    saveTodo();
    rendertodos();
    localStorage.setItem('todos', JSON.stringify(todos))
});

//saving Todo functions
function saveTodo() {
    const todovalue = todoInput.value;

    //what if its empty
    const isEmpty = todovalue === "";

    //duplicate elements
    const isDuplicate = todos.some((todo) => todo.value.toUpperCase() === todovalue.toUpperCase());

    if(isEmpty){
        shownotification("your input is empty"); // alert place lo shownotification attribute use
    } else if(isDuplicate){
        shownotification('you entered the same values dewdss');
    } else{
        if(EditTodoId >= 0 ){
            todos = todos.map((todo , index) => ({
                ...todo,
                value : index === EditTodoId ? todovalue : todo.value,
            }));
            EditTodoId = -1;
        } else {
            todos.push({
                value : todovalue,
                checked : false,
                color:'#' + Math.floor(Math.random()*16777215).toString(16),
            });
        }
        todos[EditTodoId].checked = !todos[EditTodoId].checked;
        notificationElement.textContent = todos[EditTodoId].value;
        todoInput.value = "";
    }
}

```

```

//render todo
function rendertodos(){
    if(todos.length === 0){
        todosListElements.innerHTML = '<center> ADD TASK..... </center>'
        return
    }
    //clearing rerender elements
    todosListElements.innerHTML = "";

    //rendering todo
    todos.forEach((todo,index) => {
        todosListElements.innerHTML += `
            <div class="todo" id=${index}>
                <i
                    class="fa-regular ${todo.checked? 'fa-circle-check' : 'fa-circle'}"
                    style = "color : ${todo.color}"
                    data-action="check"
                ></i>
                <p class="${todo.checked? 'checked' : ''}" data-action="check">${todo.value}</p>
                <i class="fa-solid fa-pen-to-square" data-action="edit"></i>
                <i class="fa-solid fa-trash" data-action="delete"></i>
            </div>
        `;
    });
}

//all in one todo listerner
todosListElements.addEventListener('click',(event)=>{
    const target = event.target;
    const parentElement = target.parentNode;

    if(parentElement.className !== 'todo') return;

    //todo id
    const todo = parentElement;
    const todoId = Number(todo.id);

    //targeting action
    const action = target.dataset.action;

    action === "check" && checkTodo(todoId);
    action === "edit" && editTodo(todoId);
    action === "delete" && deleteTodo(todoId);
});

//checking todo
function checkTodo(todoId){
    todos = todos.map((todo,index) =>
    ({
        ...todo,
        checked : index === todoId ? !todo.checked : todo.checked,
    }));
}

rendertodos();

```

```
localStorage.setItem('todos',JSON.stringify(todos))
}

//edit the todo
function editTodo(todoId){
  todoInput.value = todos[todoId].value;
  EditTodoId = todoId;
}

//deleting todo
function deleteTodo(todoId){
  todos = todos.filter((todo,index) => index !== todoId);
  EditTodoId = -1;

//then it should rerender
  rendertodos();
  localStorage.setItem('todos',JSON.stringify(todos))
}

//enable notifications
function shownotification(msg){
  //change the message
  notificationElement.innerHTML = msg;

  //presence of notification
  notificationElement.classList.add('notif-enter');

  //end of notification
  setTimeout(()=>{
    notificationElement.classList.remove('notif-enter')
  },2000)
}
```

```
@import
url('https://fonts.googleapis.com/css2?family=Ubuntu&display=swap');

:root {
  --container-height: 600px;
  --contaier-width: 400px;
  --header-height: 150px;
}

* {
  padding: 0;
  margin: 0;
  box-sizing: border-box;
  font-family: 'Ubuntu', monospace;
}
html {
  font-size: 20px;
}

body {
  width: 100vw;
  height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  background-image: url('./img/ooo.jpg');
}

.container {
  background-color: rgb(236, 149, 36);
  width: var(--contaier-width);
  height: var(--container-height);

  position: relative;
  overflow: hidden;
}
header {
  width: 100%;
  height: var(--header-height);
  background-image: url('./img/ccc.jpg');
  background-size: cover;
  border-radius: 5px 5px 0 0;
}
.header {
  width: 100px;
  height: 100px;
  display: flex;
  align-items: center;
  justify-content: center;
  color: #ffff;
}
.new-todo {
  width: 100%;
  height: 50px;
  padding: 0.25rem 0;
}
.new-todo form {
  display: flex;
  align-items: center;
}
.new-todo form input {
  flex: 1;
  height: 40px;
  background-color: transparent;
  border: none;
  border-right: 0px;
  outline: transparent;
  padding-left: 0.5rem;
  font-size: 1rem;
  color: #ffffff;
}
```

```
style
```

```
.new-todo form button {  
    width: 80%;  
    height: 60px;  
    font-size: 2rem;  
    background-color: transparent;  
    color: #fff;  
    border: none;  
    border-left: 0px;  
    cursor: pointer;  
}  
.new-todo form button:hover {  
    text-shadow: 1px 1px 20px rgba(240, 237, 237, 0.8);  
}  
  
#todos-list {  
    height: calc(var(--container-height) - var(--header-height));  
    background-color: #c4c4c4;  
    padding: 0.5rem;  
    border: 1px solid rgb(219, 219, 219);  
    overflow: scroll;  
    border-radius: 0 0 5px 5px;  
}  
  
#todos-list .todo {  
    display: flex;  
    align-items: center;  
    padding: 0.75rem 0.5rem;  
    border-radius: 5px;  
}  
#todos-list .todo:hover {  
    background-color: rgba(0, 0, 0, 0.1);  
}  
#todos-list .todo * {  
    cursor: pointer;  
    margin-right: 0.5rem;  
}  
#todos-list .todo i {  
    font-size: 0.9rem;  
}  
#todos-list .todo p {  
    flex: 1;  
    word-break: break-all;  
}  
.checked {  
    text-decoration: line-through;  
    color: grey;  
}  
#todos-list .todo .bi-pencil-square {  
    color: rgb(31, 177, 48);  
}  
#todos-list .todo .bi-trash {  
    color: rgb(236, 82, 82);  
    margin: 0;  
}  
  
.notification {  
    position: absolute;  
  
    width: calc(3 * var(--contaier-width) / 4);  
    height: 60px;  
  
    display: flex;  
    justify-content: center;  
    align-items: center;  
  
    opacity: 0.9;  
  
    border-radius: 8px;  
    background-color: rgb(233, 81, 81);  
    top: 10px;  
    right: calc(-3 * var(--contaier-width) / 4);
```

style

```
color: #fff;  
transition: 300ms right ease-in-out;  
}  
.notif-enter {  
    right: 10px;  
}
```