TEAM ID :- LTVIP2023TMID03773

TO-DO LIST

A PROJECT REPORT

SUBMITTED BY

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1) INTRODUCTION'S :-

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 over-whelmed with the multitude of responsibilites and deadlines we face

the Todo App is designed to Simplify your life by providing a user friendly and intutive platform for organizing, prioritizing and tracking your daily tasks and activities.

* i) overview :- In today's fast - placed world, Staying organized and manging tasks efficiently is essential for productivity and Success the Todo app offers a powerful Solution to streamline task management, prioritize activites and achive goals.

(ii) purpose :

* the use 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 with out the need for a note.

↳ the functionalists provided by a good to do list application / System help declutter. the user's mind as their pending tasks are recorded. Safely and they won't be forgotten.

↳ A to-do list is a list of tasks that need to be completed typically organside in order of priority. It is one of the simplest solutions for task management and provides a minimal.

2) * LITERATURE SURVEY *

The literature Survey reveals a growing body of research on task management apps. like todo.

↳ Studies highlight the positive impact of Such apps on productivity, time management and user Satisfaction.

↳ User-Centric design, effective prioritization, reminders, and Cross-platform Synchronization are key features that contribute to the Success of Todo apps.

* Some literature Survey's of Todo app:

1) "Effects of Task management Apps on productivity and performance". [Journal of Applied psychology, 2018].

2) "The Psychology of Task organization: A Cognitive perspective" [Annual Review of psychology, 2019].

3) "Designing Effective Task Management Apps : A User - Centric Approach" [International Journal of Human- Computer interaction, 2020].

4) "The Role of Reminders and Notifications in Task Management Apps" [International Conference on Human- Computer Interaction, 2021].

Overall, the literature Survey reveals a growing body of research focused on task management apps like Todo. The studies Consistently highlight the positive impact of Such apps on productivity.

* 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 users' task management Capabilities.

2.(b) * Existing problem of Todo :

the existing problem with traditional to-do lists & manual task management methods is that they Can be inefficients, overwhelming, and lack flexibility. Some Common issues include.

1. Lack of organization.
2. limited Accessibility
3. difficulty in Prioritization.
4. Ineffective time management.
5. lack of Reminders.

<u>Existing Approaches & methods to Solve this problem</u> :

1) Digital task management Apps
2) Task Categorization and list organization.
3) prioritization features.
4) Reminder and Notifications Systems.
5) Cross-platform Accessibility.

ii * Proposed Solution for Todo :-

1) user Interface design :- Create an intuitive and visually appealing user interfacing easily add, edit, and organize tasks.

2) Task Categorization and lists :- Implement a features to categorize tasks into different lists or projects.

3) 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.

4) Customizable Settings :- offer Customization options, allowing users to tailor the app's appearance and functionalities to their preferences.

5) offline Access :- provide offline access to previously Synchronized tasks, allowing users to view and edit tasks even when not Connected to the internet.

* THEORITICAL ANALYSIS *

The theoritical analysis of the Todo app focuses on understanding it is core components and how it addresses the task management challenges discussed earlier. It involves breaking down the app's functionalities.

Key Components of the Todo App:

1. User interface: the app's user interface is designed to be intuitive and user-friendly. allowing users to interact with the app seamlessly.

2. Task Categorization and lists: The App allows users to Create and manage multiple.

3. Task prioritization: users can assign priority levels to tasks, helping them identify and focus on high-priority tasks.

4. Reminders and Notifications: the app incorporates remainders and notifications to

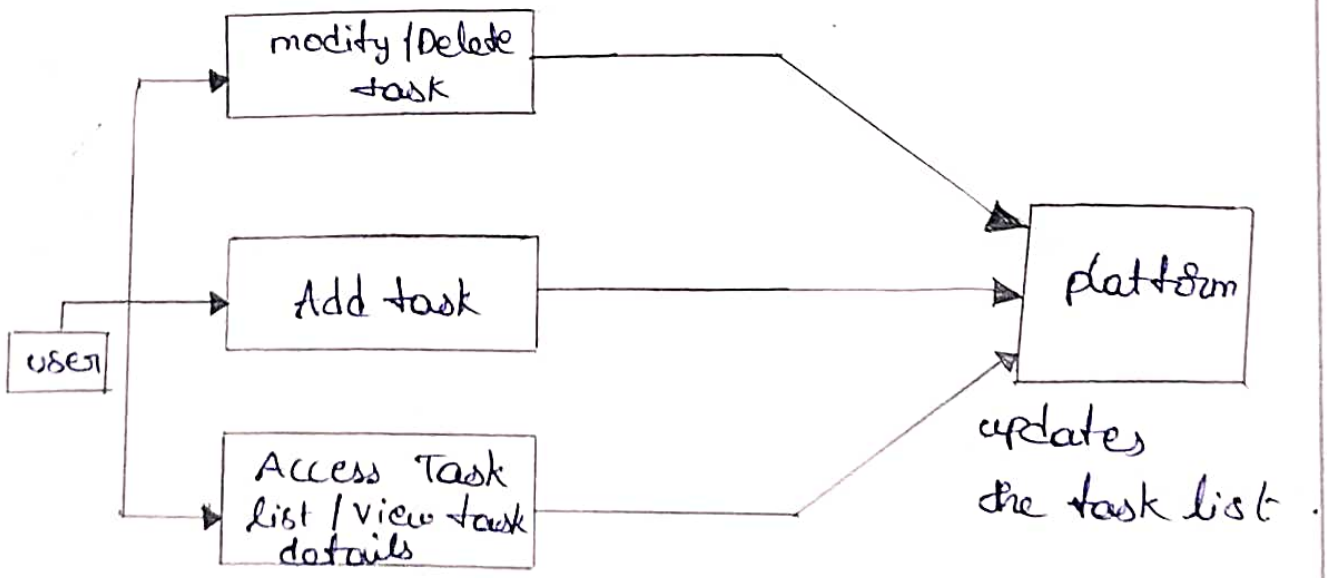
alert users about upcoming tasks.

5) Data Synchronization :- the app offers cross-platform Sychronization

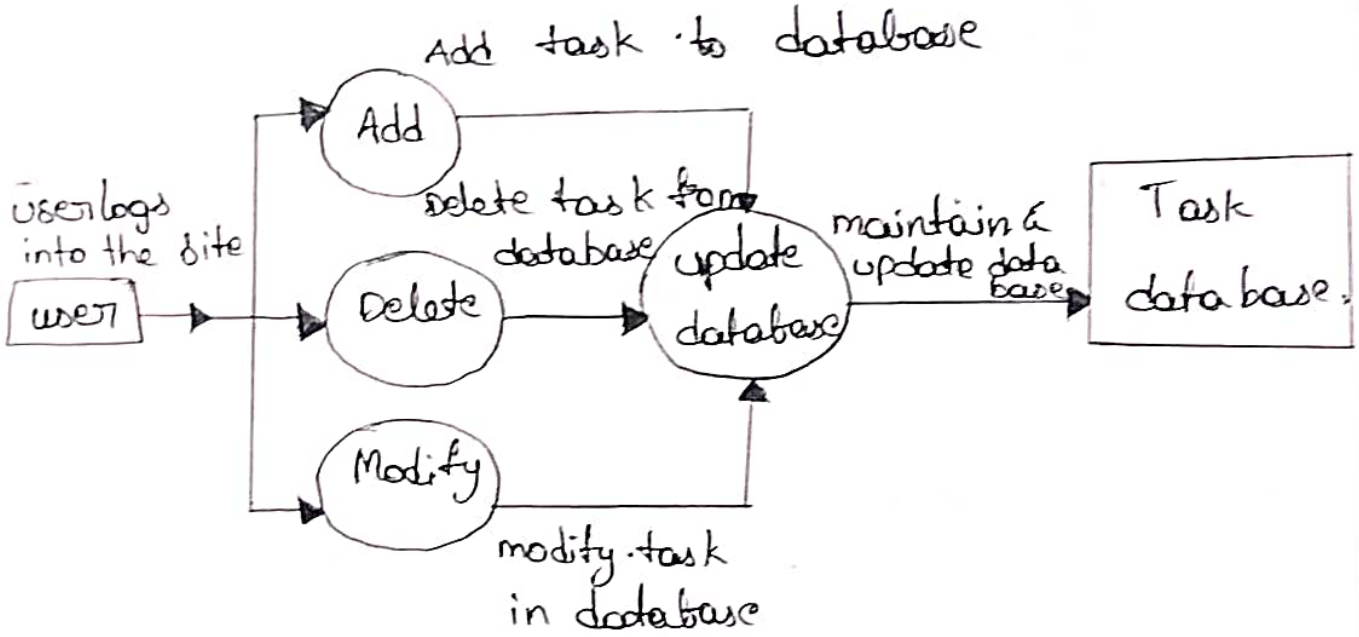
6) Progress Tracking :- users can mark tasks as Complete or in-progress, providing them with a Sense of accomplishment and motivation them to acheive their goals.

theoritical Analysis :-

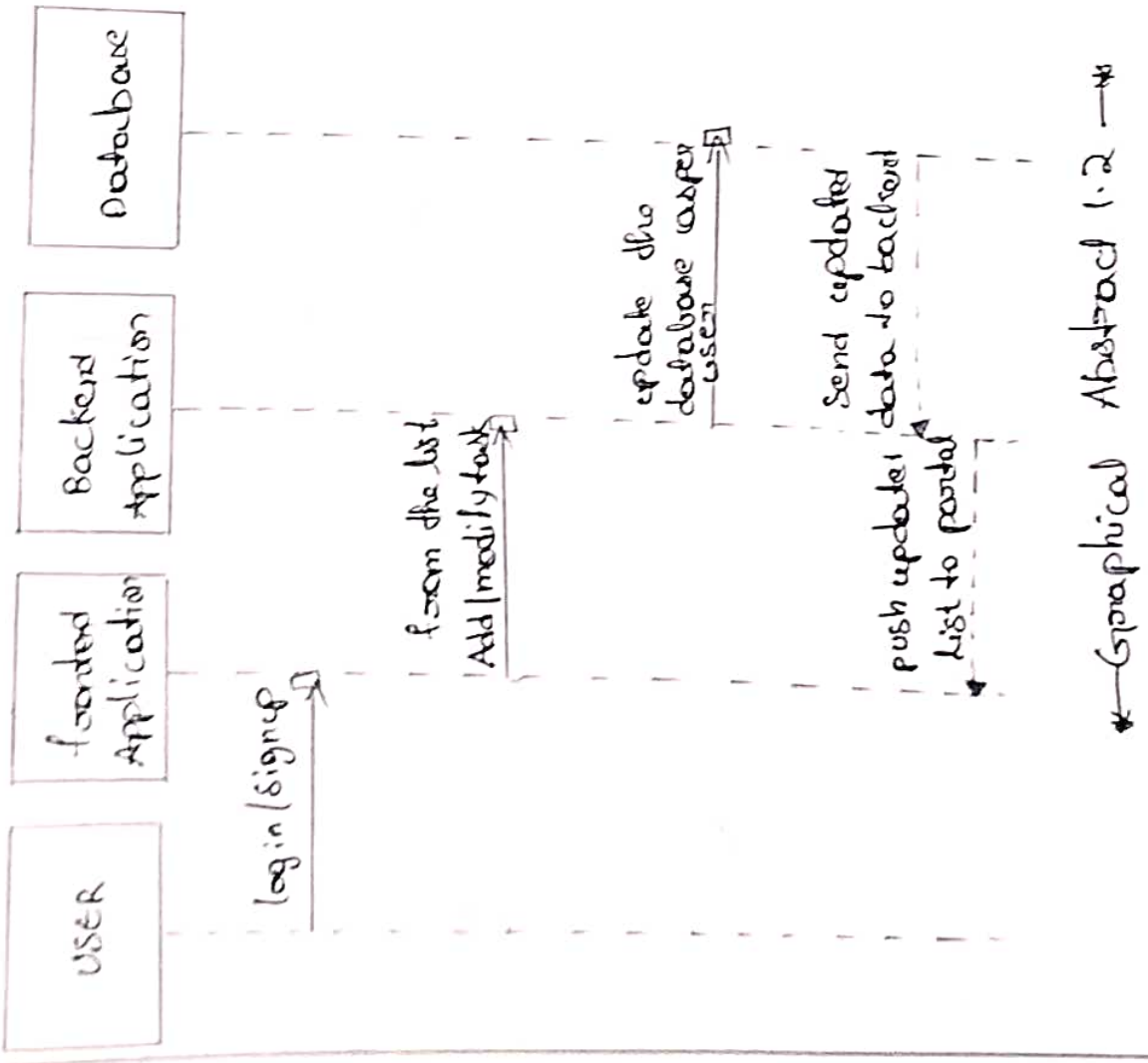
Block diagrams



* Graphical Abstract 1.1 *



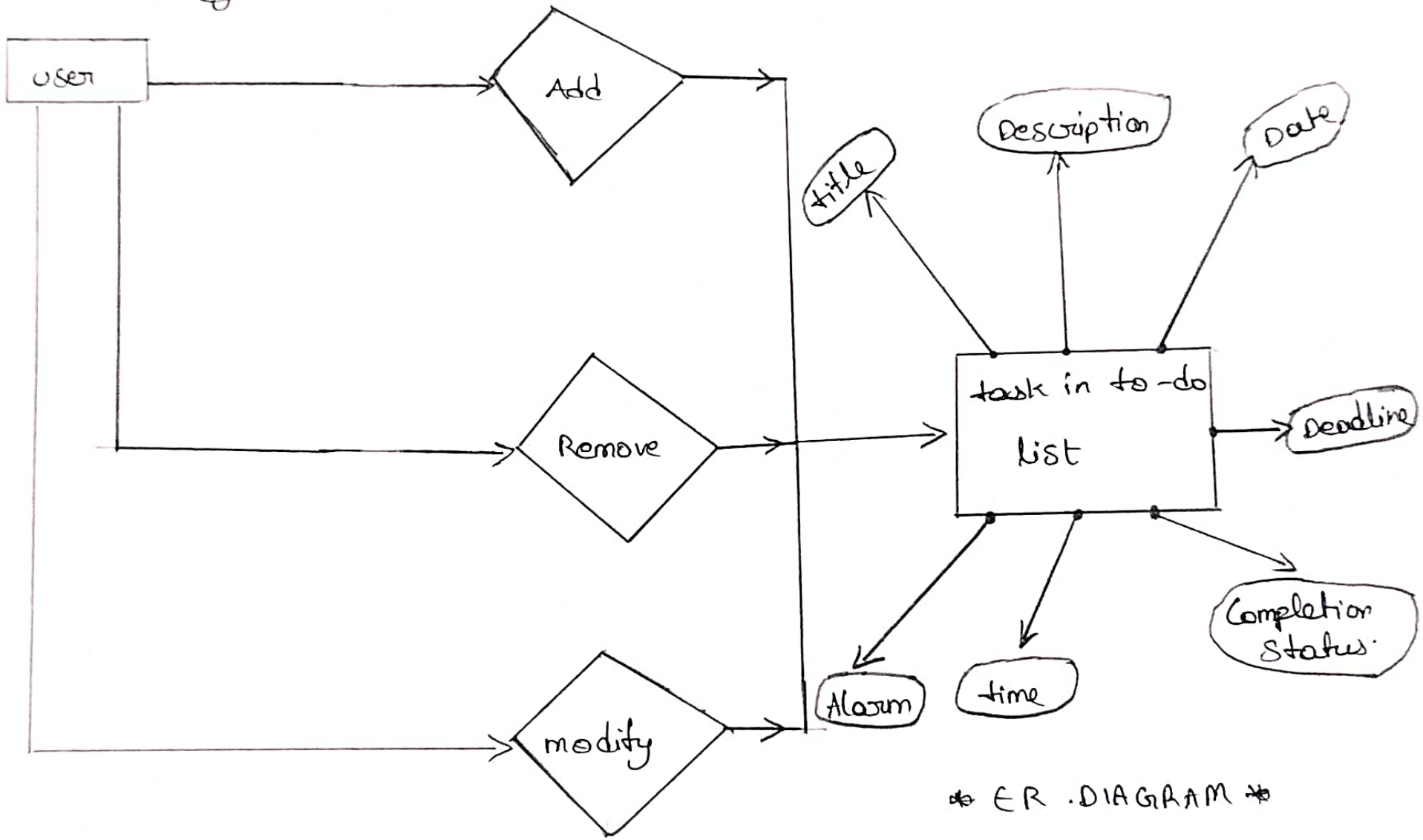
* DATA FLOW DIAGRAM *



* DESIGN FLOW *

final Design :

Entity Relationship Diagram .



* ER .DIAGRAM *

2(ii) * Hardware and Software Designing for Todo :-

*Hardware Requirements :-

1) Server Infrastructure :- Robust Servers will be required to handle user data and task. Synchonization across devices.

2) Database :- A Scalable and efficient database System is needed to Store user tasks, preferences, and task statuses.

3) Networking :- Reliable internet Connectivity is essential for Seamless data Synchronization and app usage.

* Software Requirements :

1) front - End Development :- The app's user interface will be built using front-end technologies Such as HTML, CSS, and Java Script.

2) Back - End Development :- Back - end technologies like Node.js, Python, & Ruby will handle data

processing, task management logic, and server-side functionalities.

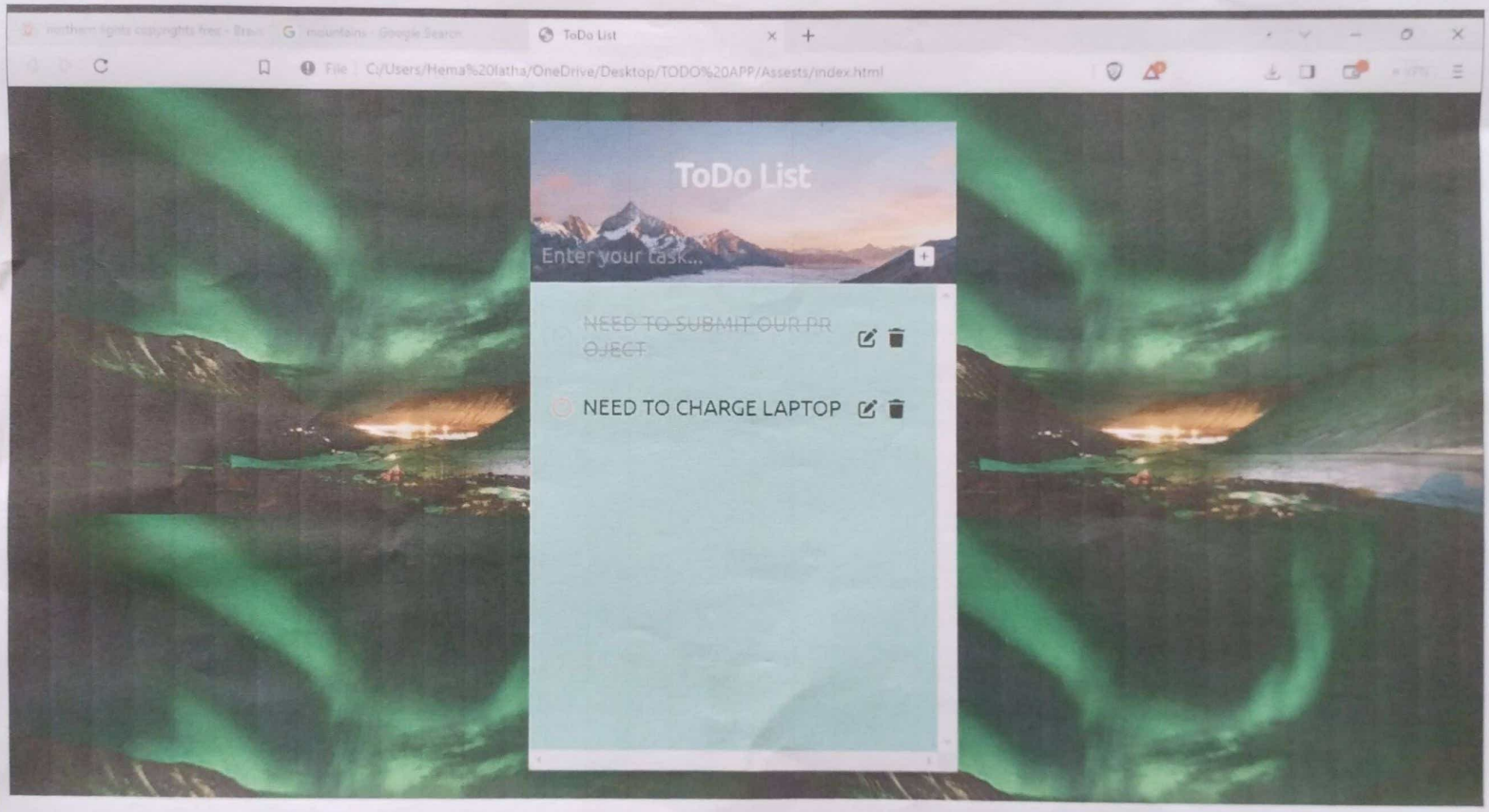
3. Database management System :- A database System like MySQL or Mongo DB will be utilized for efficient data storage and retrieval.

4. Cross-platform Compatibility :- The app should be developed to Support multiple platforms, Such as web browsers, Android, and IOS devices.

5. User Authentication :- Implementing Secure user authentication to project user data and and ensure privacy.

6. Push Notification :- Integration with push notification services to Send timely reminders and alerts to users.

7. Data Encryption :- Implementing data encryption techniques to Secure Sensitive user information.


ToDo List
File | C:/Users/Hema%20latha/OneDrive/Desktop/TODO%20APP/Assests/index.html
ToDo List
Enter your task...
NEED TO SUBMIT OUR PR
OJECT
NEED TO CHARGE LAPTOP

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 remainders.

* 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 apps programs tracking and visual cues motivated them to complete tasks.

* Collaborative features :- for teams using the app collaboratively positive feedback was received about how the apps streamlined task delegation & improved.

5) Advantages of Todo List :-

* organization :- Todo list help users organize their tasks and priorites in Systematic manner, making it easier to keep track of what needs to be done.

* Time Management :- with clear deadlines and priorites set for each task, users can manage their time more efficiently and avoid procrastion

* Increased Productivity :- A well-maintained todo list can enchance productivity by providing a clear roadmap for completing tasks and acheiving 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 mathod 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 frustation and guilt.

* Lack of Flexiblity :- Some todo ~~this~~ lists may become overly rehaint on the list, potentially neglecting other important aspects of their life & work.

* Dependency on the list :- users may become overly rehiant on the list, potentially neglecting other important aspects of their life & 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.

→ Task Categorization :- the app's task Categorization feature ensures better organization and focus on specific area 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 (TodoApp)

→ learning Curve : users may require some time to familiarize themselves with the app's features and functionalities.

→ Techinical Issues : Techinical glitches or server downtimes may temporarily hinder users access to app & data Sychronization.

→ Dependency on Technology :- users relying solely on the app for task management may become less adept the at traditional methods.

→ Compatibility & Support :- the app's compatibility with specific devices and operating systems may limit some users access.

6) Applications :- The areas where this solution can be applied.

→ The Todo app solution can be applied in various areas and context to help individual 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, errands & remainders.

* 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 programs 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 though insights into app's potential impact on productivity.

→ the todo's app advantages includes enhanced productivity, improved time management and reduced stress.

→ However, it was acknowledged that overdependent on app and potential overwhelm from an extensive text list could be disadvantages.

Conclusion Summarizing the entire work and 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 responsibilites.

→ Continous improvement and user feedback will further enhance the app's functionality and usability, ensuring it remains a reliable companion in journey.

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8) Future Scope :-

→ The Todo g-app has great potential for further enchance ments and improvements for frather elevate its functionality, user experience & versality.

→ Some of future Scope and potential enchance ments 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 priordize then according.

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

Enchancements that can be made in the feature:

* Gamification Elements: Introducing gamification elements to motivate users further, such as rewarding completed tasks with virtual badges, points & 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.

```html
<!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> ToDo List </h2>
            </div>
            <div class="new-todo">
                <form id="todoform">
                    <input type="text" name="newtodo" id="newtodo"
placeholder="Enter your task...">
                    <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>  //html code
```

```css
@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(./lights.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('./mounts.jpeg');
  background-size: cover;
  border-radius: 5px 5px 0 0;
}
.header {
  width: 100%;
  height: 100px;
  display: flex;
  align-items: center;
  justify-content: center;
  color: #fff;
}
.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: #eee7e7;
}
.new-todo form button {
  width: 60px;
  height: 40px;
  font-size: 1rem;
  background-color: transparent;
  color: rgb(250, 250, 243);
  border: none;
  border-left: 0px;
  cursor: pointer;
}
.new-todo form button:hover {
  text-shadow: 1px 1px 20px rgba(0, 0, 0, 0.8);
}

#todos-list {
  height: calc(var(--container-height) - var(--header-height));
  background-color: #a2eed7;
  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);

  color: #fff;

  transition: 300ms right ease-in-out;
}

.notif-enter {
  right: 10px;
}     //css

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

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

//fst 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 wahase hatoo
const isDuplicate = todos.some((todo) => todo.value.toUpperCase() ===
todovalue.toUpperCase());

if(isEmpty){
    shownotification("your input is empty");   // alert place lo
shownotifiction 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),
        });
    }

    todoInput.value = '';

} }

//render todossssssss
function rendertodos(){
    if(todos.length === 0){
        todosListElements.innerHTML = '<center> NOTHING TODO.....
</center>'
        return
    }
    //clearing rerender elemnts
    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 listernerssssss
```

```
                                        to do
todosListElements.addEventListener('click',(event)=>{
    const target = event.target;
    const parentElement = target.parentNode;

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

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

    //target 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 shd 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)
 }  //js script
```