

Introduction

Overview:

- To do list is an application specially built to keep track of tasks that needed to be done.
- It will be like a task keeper where the user would be able to enter the tasks that they need to do.
- we use some specific hardware and software components in order to build a todo app.
- we had created using the css, javascript & HTML files. we conducted a simple survey and realized to build a app like this.
- By using the features in this we can manage our tasks without any ignorance.
- In this the user can mark the completed & uncompleted tasks. They can also delete the task if not needed.
- All the uses and applications of the app are given in this project.

Purpose of Todo app:

1. Now a days people are very much busy with a lot of tasks and are not capable of reminding the tasks to do.
2. we can also see the lack of organizing the tasks with on basis of priority.
3. By using this app we can complete the tasks without any pending i.e on time.
4. This can improve the task and time management by which we can be a good task organizer.
5. This can help students as well as in business too work effectively & efficiently.
6. By using this app our mind will not be stressed as there is no need to think a lot about the task we have forgot.

So, to solve these it is necessary to build a todo app.

Literature survey

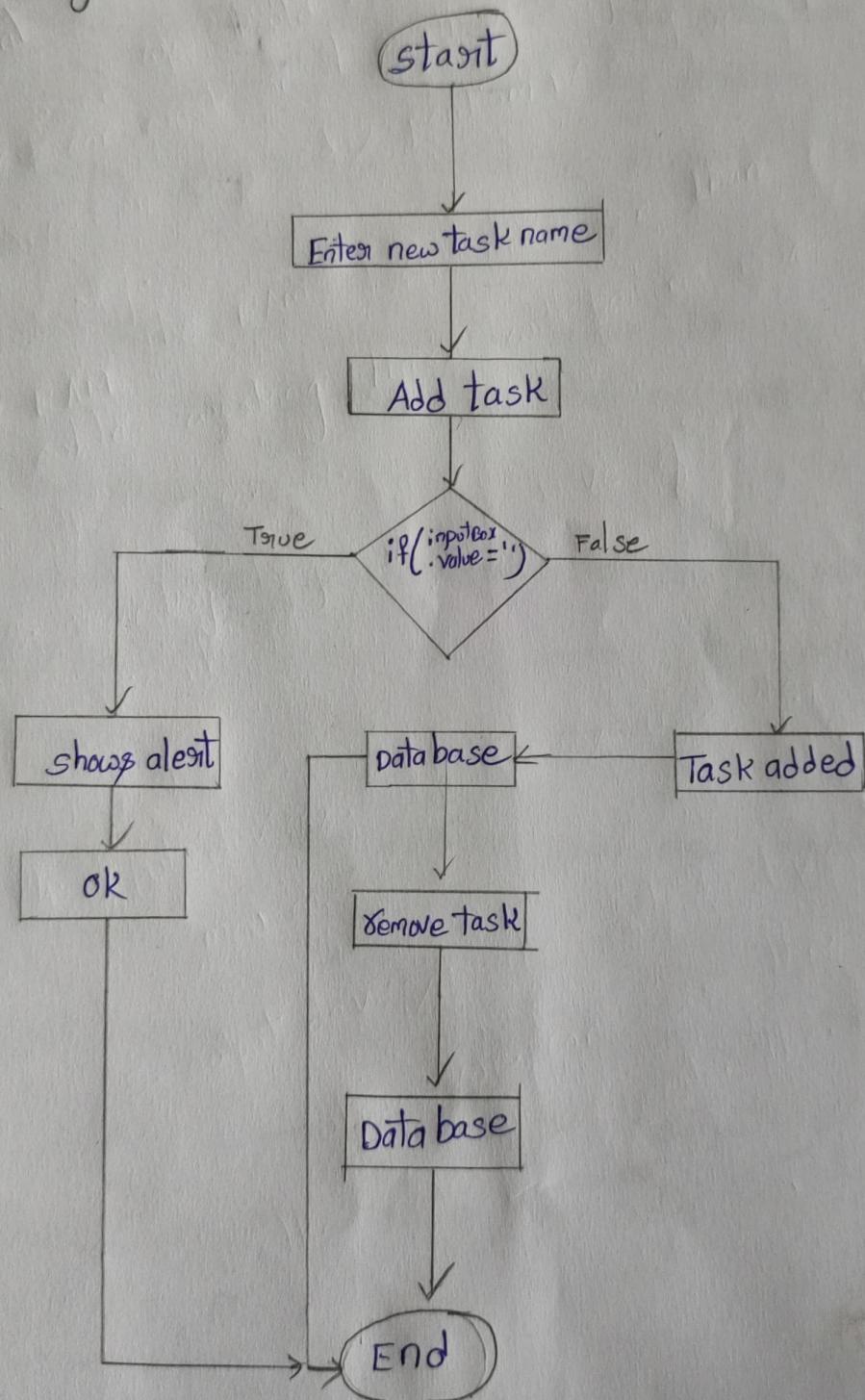
- we studied the research paper "studies of Task Manager". It has been referred to in 166 papers till now.
- The aim of this paper was to find the factors which influence task completion and provide a strong foundation for design of personal To-do list.
- It was found that people do not correctly explain their task in case of offline or manual To-do list.
- we studied the case study titled "The best To-do list app right now" published on theverge.com.
- Its main aim is to compare the popular To-do lists app in the market and give them a score based on the user preferences.
- The approach is simple ~~as~~ that the best To-do list is the one which perfectly maps individual needs.
- The main finding from this website is to prepare a To-do list which will fit most of the user's needs.
- we also studied the article from orange scrum. It states that there are few problems if we do tasks manually.

Proposed solution:

- For the problems based on task management I would like to propose the idea of creating a todo app which can be accessible on all devices and should be easily usable by the users.
- The management of tasks will be easily as they have priority and deadlines.
- In this app we can mark the work as completed when it's done. so, they are well organized.
- In future by linking the todo app with voice assistant it will be easy for all users to complete their tasks in a smart way.
- It helps people having memory problem to remind their tasks.
- so, I believe that completing our tasks is more important & by using the Todo app we can achieve it full pledgedly.

Theoretical Analysis

Block diagram



Hardware requirement

- The hardware required to build a todo app. are.
- 1) processor: we should need a good processor so that we can work on it without any problem. The processor required is pentium IV or above to work smoothly.
- 2. RAM: The RAM should be more than 4GB so that while working there will be no more load on the processor.
- 3. Secondary storage: A disk drive of 500mb or more is sufficient to store the work files on Local storage.
- 4. Input devices: The devices used are Keyboard & mouse.
- 5. output devices: The output device is the monitor where we can see the output or display the code or execute the code.

Software requirements

- The software / applications required to build the todo list app are:
 1. operating system: we know that os is main to work on a pc or computer. we can use versions of windows, Mac, ubuntu, Linux. but by using the latest os the system will work efficiently.
 2. Frontend: we have to create a HTML file for html code, a javascript file for JS code and a CSS file for designing the webpage. we can also use the bootstrap to work fastly.
 3. Local host: Here we can use the Microsoft visual studio code for writing & executing all the code needed. we can also use notepad, sublime text etc.
 4. Backend: we have to connect to a database so that information will be stored. we can also use python, java, PHP, Ruby on rails as backend.

Code for front end of Todo APP

html code.html

```
<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>TODO LIST</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="container">
        <div class="todo-app">
            <h2>TODO LIST </h2>
            <div class="row">
                <input type="text" id="input-box"
placeholder="enter or create the new task">
                <button onclick="addTask()">add</button>
            </div>
            <ul id="list-container">
                <!-- <li class="checked">task 1</li>
                <li>task 2</li>
                <li>task 3</li>-->
            </ul>
        </div>
    </div>
    <script src="jscript.js"></script>
</body>
</html>
```

CSS file: style.css

```
margin:0;  
padding:0;  
box-sizing:border-box;  
}  
.container{  
width:100%;  
min-height: 100vh;  
background:linear-gradient(120deg,blue,red);  
padding:10px;  
}  
.todo-app{  
width:100%;  
max-width: 540px;  
background:white;  
margin:100px auto 20px;  
border-radius: 10px;  
padding:40px 30px 70px;  
}  
.todo-app h2{  
color:rgb(222, 19, 141);  
display:flex;  
align-items: center;  
margin-bottom: 20px;  
}  
.todo-app h2 img{  
width:30px;  
margin-left: 10px;  
}  
.row{  
display:flex;  
align-items: center;
```

```
justify-content: space-between;
background: lightcyan;
border-radius: 30px;
padding-left: 20px;
margin-bottom: 25px;
}
input{
  flex:1;
  border:none;
  outline:none;
  background: transparent;
  padding:10px;
}
button{
  border:none;
  outline:none;
  padding:16px 50px;
  background: orangered;
  color:aqua;
  font-size: 16px;
  cursor:pointer;
  border-radius: 40px;
}
ul li{
  list-style: none;
  font-size: 17px;
  padding:12px 8px 12px 50px;
  user-select: none;
  cursor:pointer;
  position: relative;
}
ul li::before{
```

```
content:"";  
position:absolute;  
height: 28px;  
width: 28px;  
border-radius: 50%;  
background-image: url(images/unchecked.png);  
background-size: cover;  
background-position: center;  
top:12px;  
left:8px;  
}  
ul li.checked{  
color:#555;  
text-decoration: line-through;  
}  
ul li.checked::before{  
background-image: url(images/checked.png);  
}  
ul li span{  
position: absolute;  
right:0;  
top:5px;  
width:40px;  
height:40px;  
font-size: 22px;  
color:rgb(242, 10, 188);  
line-height: 40px;  
text-align: center;  
border-radius: 50%;  
}  
ul li span:hover{  
background:brown; }
```

js script.js

```
const inputBox = document.getElementById("input-box");
const listContainer = document.getElementById("list-container");

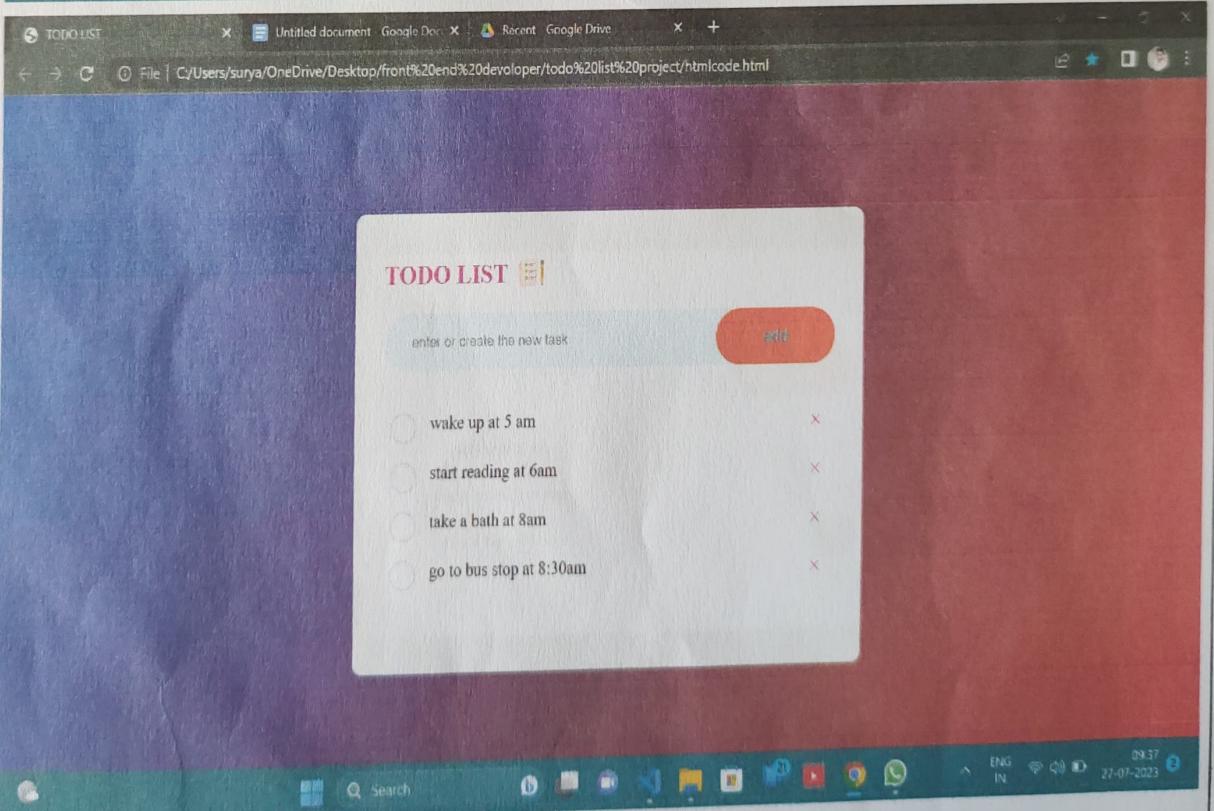
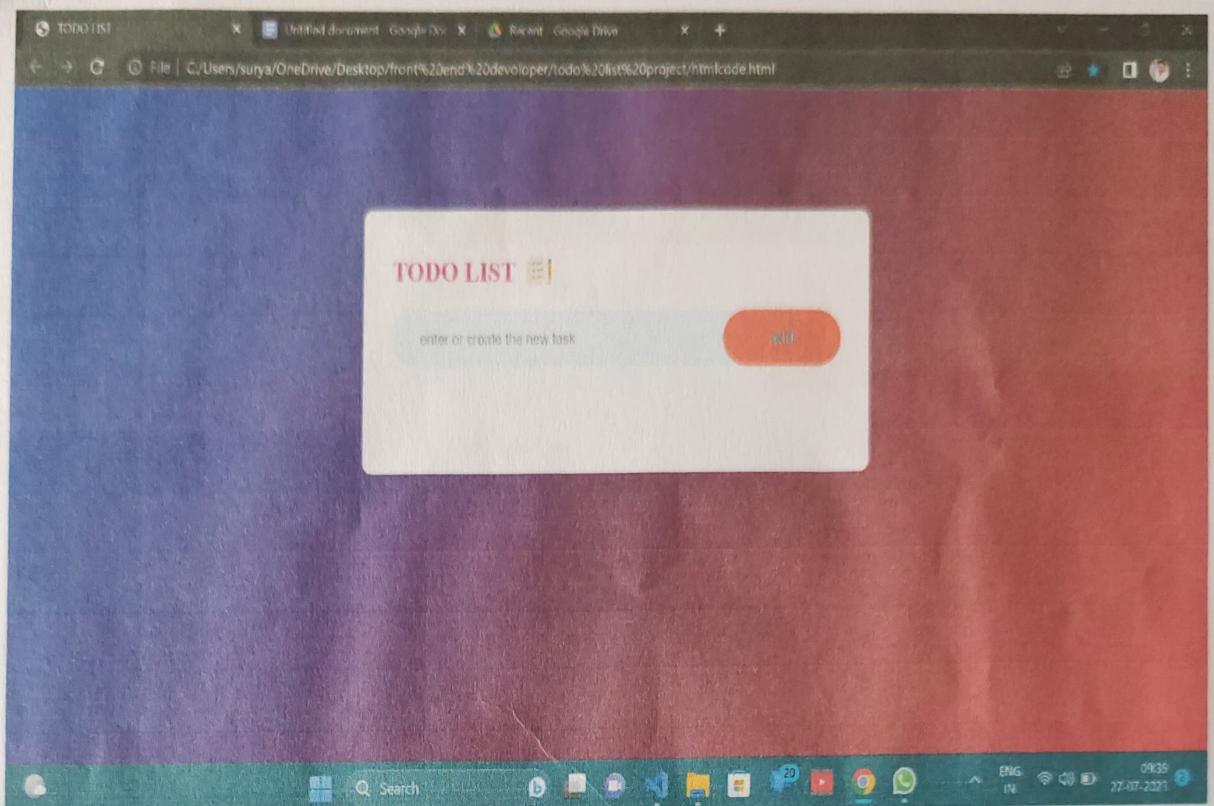
function addTask()
{
    if(inputBox.value === ""){
        alert("you must write something !");
    }
    else{
        let li=document.createElement("li");
        li.innerHTML=inputBox.value;
        listContainer.appendChild(li);
        let span=document.createElement("span");
        span.innerHTML="\u00d7";
        li.appendChild(span);
    }
    inputBox.value="";
    saveData();
}

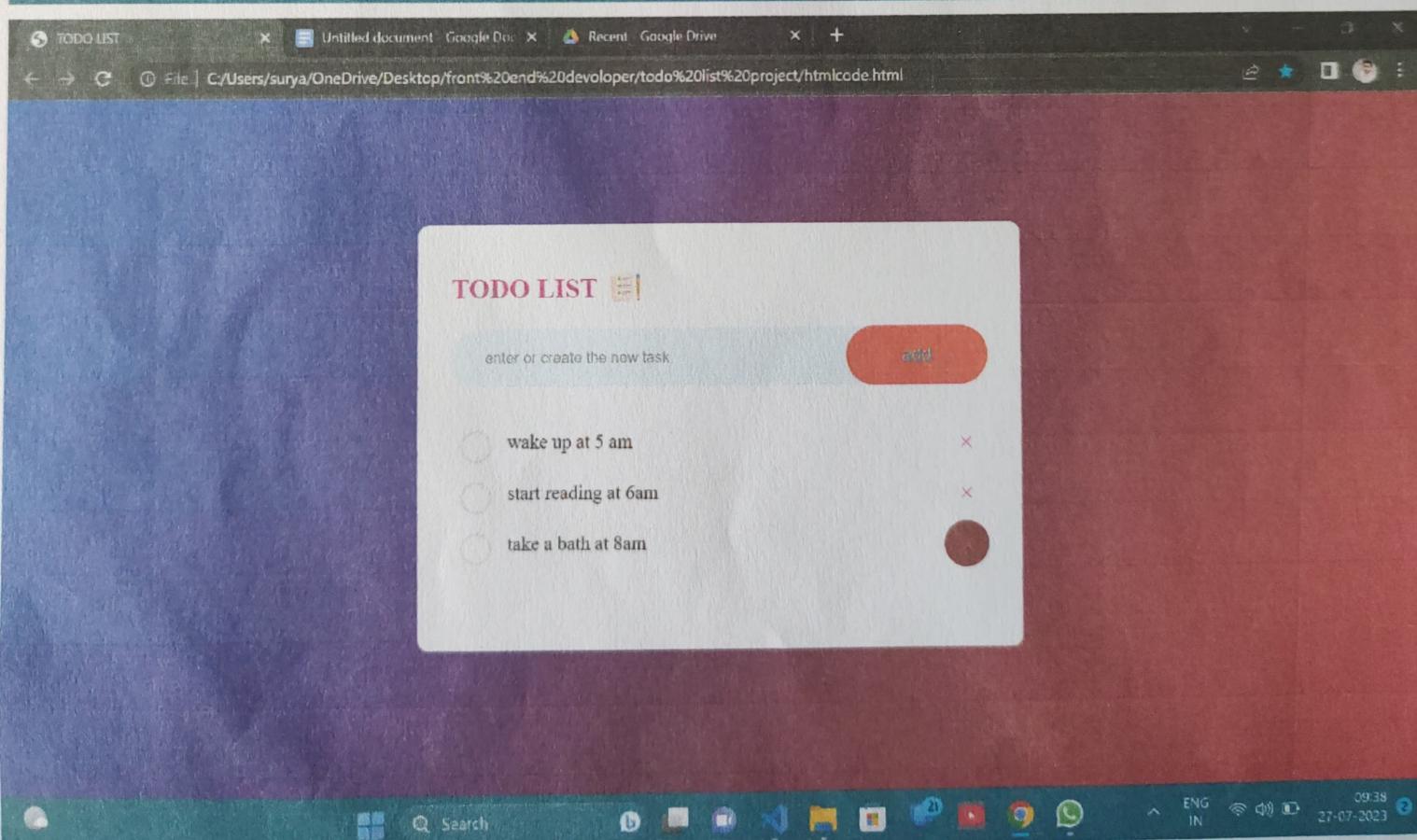
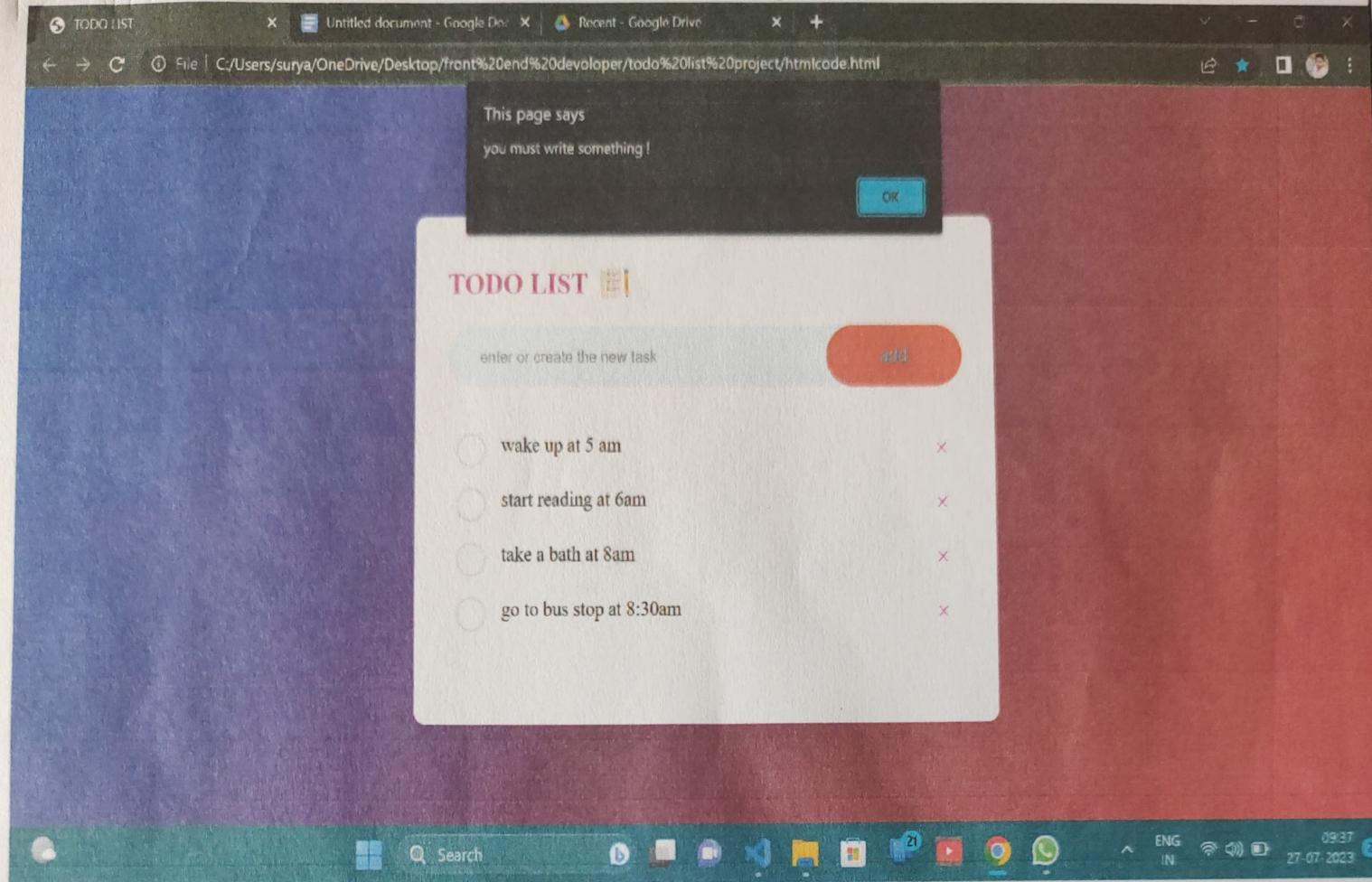
listContainer.addEventListener("click",function(e){
    if(e.target.tagName==="li"){
        e.target.classList.toggle("checked");
        saveData();
    }
    else if(e.target.tagName==="SPAN"){
        e.target.parentElement.remove();
        saveData();
    }
},false);

function saveData(){
    localStorage.setItem("data",listContainer.innerHTML);
}

function showTask(){
    listContainer.innerHTML=localStorage.getItem("data");
}
showTask();
```

Result:-





Advantages of Todo APP:

1. Organization: A todo app helps users stay organized by providing a structured way to manage tasks, making it easier to keep track of responsibilities and deadlines.
2. Increased productivity: By having a clear list of tasks and priorities, users can focus on what needs to be done, minimizing distractions.
3. Time management: Todo apps often include features like marking tasks.
4. Goal Tracking: It allows users to set & track their goals, breaking them down into manageable tasks.
5. Accessibility: Most todo apps sync across multiple devices, ensuring users can access their tasks from anywhere.
6. Collaboration: some todo apps offer collaboration features, making it easier for teams to work together, assign tasks and track shared projects.

Disadvantages of Todo APP:

- ① Task Neglect: In some cases, users may forget to update their todo app regularly, leading to neglected tasks and missed deadlines.
- ② Dependency: Relying solely on a todo app without developing good organizational habits can make users feel lost & unproductive when they don't have access.
- ③ Technical issue: Todo apps may experience technical glitches or compatibility issues, which can disrupt task management.
- ④ Distractions: Constant notifications and reminders from a todo app can be distracting and disrupt focus on other important tasks.
- ⑤ Learning curve: Some todo apps can be complex to set up & use initially, requiring time and effort to learn their full functionality.

Applications:

1. work and business: In a professional setting, individuals can use a to-do app to manage work-related tasks, projects & helping them stay organized and productive.
2. study and academic planning: students can use to-do apps to manage their study schedules, assignment deadlines and exam preparing.
3. Travel planning: For trips and vacations, a to-do app can help users create packing lists, plan activities, and keep track of travel arrangements.
4. Event planning: whether it's organizing a party, a wedding, or a social gathering, a to-do app can aid in managing tasks, guest lists and other event details.
5. personal development: To-do apps can be utilized for personal development, like tracking fitness goals, reading lists, or learning new skills.

Conclusion:

- Todo app is a useful app which helps to organize and create tasks to do later.
- By working to create the todo app frontend I come to know how to create it, mark it done when work is completed and some features of the app.
- This app helps the students, for work and business as well.
- But we should not become overly reliant on the app.
- It helps in every applications and can be easily accessible.
- So, it is very useful to not distract from a work and complete all the tasks.

Future scope:

1. voice integration: by combining todo app with voice assistant we will get reminders and other suggestions.
2. personalize recommendations: we can even personalize more based on user behaviour and preferences.
3. predictive Assistance: by this the app will observe our user moments on past and suggest tasks based on time.
4. smart-home integration: By syncing todo app with home devices the daily tasks can be easily completed.
5. Focus on well-being: By incorporating features to promote mindfulness, stress reduction, and work life balance.
6. cross-platform functionality: It will be more cross-platform friendly, ensuring easy synchronization.