

## Introduction

The Task Tracker application is a simple, user-friendly tool designed to help manage tasks effectively. Built with vanilla JavaScript, HTML, and CSS, it provides basic CRUD (Create, Read, Update, Delete) operations for tasks.

---

## Setup Instructions

### 1. Create Project Directory

bash

Copy code

```
mkdir task-tracker
```

```
cd task-tracker
```

### 2. Create Basic Files

- **index.html**
- **styles.css**
- **script.js**

### 3. Folder Structure

Copy code

```
task-tracker/
```

```
├── index.html
```

```
├── styles.css
```

```
└── script.js
```

### 4. Code for index.html

html

Copy code

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Task Tracker</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

  <div class="container">

    <h1>Task Tracker</h1>

    <div class="task-input">

      <input type="text" id="taskInput" placeholder="Add a new task">

      <button id="addTaskButton">Add Task</button>

    </div>

    <ul id="taskList"></ul>

  </div>

  <script src="script.js"></script>

</body>

</html>
```

## 5. Code for styles.css

css

Copy code

```
body {

  font-family: Arial, sans-serif;

  background: linear-gradient(to right, #ff7e5f, #feb47b);

  display: flex;

  justify-content: center;

  align-items: center;

  height: 100vh;

  margin: 0;
```

```
    animation: fadeInBackground 1s ease-in-out;
}
```

```
@keyframes fadeInBackground {
    from { opacity: 0; }
    to { opacity: 1; }
}
```

```
.container {
    background-color: #fff;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0 10px 20px rgba(0, 0, 0, 0.2);
    width: 350px;
    text-align: center;
    animation: fadeInContainer 1s ease-in-out;
}
```

```
@keyframes fadeInContainer {
    from { transform: translateY(-50px); opacity: 0; }
    to { transform: translateY(0); opacity: 1; }
}
```

```
h1 {
    margin-bottom: 20px;
    color: #ff7e5f;
}
```

```
.task-input {  
  display: flex;  
  justify-content: space-between;  
  margin-bottom: 20px;  
}
```

```
#taskInput {  
  width: 70%;  
  padding: 10px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
  outline: none;  
  transition: all 0.3s ease;  
}
```

```
#taskInput:focus {  
  border-color: #ff7e5f;  
  box-shadow: 0 0 5px rgba(255, 126, 95, 0.5);  
}
```

```
#addTaskButton {  
  padding: 10px;  
  background-color: #ff7e5f;  
  color: #fff;  
  border: none;  
  border-radius: 5px;
```

```
    cursor: pointer;

    transition: all 0.3s ease;
}
```

```
#addTaskButton:hover {

    background-color: #feb47b;

    transform: scale(1.05);
}
```

```
ul {

    list-style-type: none;

    padding: 0;
}
```

```
li {

    background-color: #f9f9f9;

    padding: 10px;

    margin-bottom: 10px;

    border-radius: 5px;

    display: flex;

    justify-content: space-between;

    align-items: center;

    transition: all 0.3s ease;

    animation: fadeInTask 0.5s ease-in-out;
}
```

```
@keyframes fadeInTask {
```

```
from { transform: translateX(-50px); opacity: 0; }  
to { transform: translateX(0); opacity: 1; }  
}
```

```
li .actions {  
  display: flex;  
}
```

```
li .actions button {  
  background-color: #dc3545;  
  color: #fff;  
  border: none;  
  border-radius: 5px;  
  margin-left: 5px;  
  cursor: pointer;  
  padding: 5px;  
  transition: all 0.3s ease;  
}
```

```
li .actions button.edit {  
  background-color: #007bff;  
}
```

```
li .actions button:hover {  
  opacity: 0.8;  
}
```

## 6. Code for script.js

javascript

Copy code

```
document.addEventListener("DOMContentLoaded", function() {

    const taskInput = document.getElementById("taskInput");

    const addTaskButton = document.getElementById("addTaskButton");

    const taskList = document.getElementById("taskList");


    addTaskButton.addEventListener("click", addTask);

    taskList.addEventListener("click", handleTaskActions);


    function addTask() {

        const taskText = taskInput.value.trim();

        if (taskText === "") {

            alert("Please enter a task.");

            return;

        }

        const taskItem = createTaskItem(taskText);

        taskList.appendChild(taskItem);

        taskInput.value = "";

    }


    function createTaskItem(taskText) {

        const li = document.createElement("li");

        li.textContent = taskText;


        const actions = document.createElement("div");

        actions.classList.add("actions");
```

```
const editButton = document.createElement("button");

editButton.textContent = "Edit";

editButton.classList.add("edit");

editButton.onclick = () => editTask(li);


const deleteButton = document.createElement("button");

deleteButton.textContent = "Delete";

deleteButton.onclick = () => deleteTask(li);


actions.appendChild(editButton);

actions.appendChild(deleteButton);

li.appendChild(actions);


return li;
}
```

```
function handleTaskActions(event) {

  if (event.target.tagName === "BUTTON") {

    const action = event.target.textContent.toLowerCase();

    const taskItem = event.target.closest("li");


    if (action === "edit") {

      editTask(taskItem);

    } else if (action === "delete") {

      deleteTask(taskItem);

    }

  }

}
```



```
}  
  
}
```

```
function editTask(taskItem) {  
  
    const newTaskText = prompt("Edit task:", taskItem.firstChild.textContent);  
  
    if (newTaskText !== null && newTaskText.trim() !== "") {  
  
        taskItem.firstChild.textContent = newTaskText.trim();  
  
    }  
  
}
```

```
function deleteTask(taskItem) {  
  
    taskItem.remove();  
  
}  
  
});
```

---

## Functionalities

### 1. Add Task

- Users can add a new task by entering text in the input field and clicking the "Add Task" button.
- The task will be displayed in the task list.

### 2. Display Tasks

- All tasks are displayed in a list format.

### 3. Update Task

- Users can edit an existing task by clicking the "Edit" button next to the task.
- A prompt will appear, allowing the user to enter a new task description.

### 4. Delete Task

- Users can delete a task by clicking the "Delete" button next to the task.
-

## Testing

### 1. Add Task

- Enter text in the input field and click the "Add Task" button.
- Verify that the task appears in the task list.

### 2. Edit Task

- Click the "Edit" button next to a task.
- Enter a new task description in the prompt and verify that the task updates in the list.

### 3. Delete Task

- Click the "Delete" button next to a task.
- Verify that the task is removed from the list.