

Step 1: Create the Project Structure for an ES6-based task list

1. Create a Project Folder

- Create a new folder on your computer. Name it `todo-app`.

2. Create HTML, CSS, and JS Files

- Inside the `todo-app` folder, create three new files: `index.html`, `styles.css`, and `app.js`.

Step 2: Add the HTML Code

1. **Open `index.html`:** Open the `index.html` file in a text editor

Copy the HTML Code: Copy and paste this HTML code into the `index.html` file:

```
<!DOCTYPE html>

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>To-Do List App</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h1>To-Do List</h1>
    <div class="input-container">
      <input type="text" id="todo-input"
placeholder="Add a new task...">
      <button id="add-btn">Add</button>
    </div>
    <ul id="todo-list"></ul>
  </div>
  <script src="app.js"></script>
</body>
</html>
```

Step 3: Add the CSS Code

1. **Open styles.css:** Open the styles.css file in your text editor.

Copy the CSS Code: Copy and paste the following CSS code into the styles.css file:

```
body {  
  
    font-family: Arial, sans-serif;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
    margin: 0;  
    background-color: #f0f0f0;  
}  
  
.container {  
    background-color: white;  
    padding: 20px;  
    border-radius: 8px;  
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);  
    width: 300px;  
    text-align: center;  
}  
  
.input-container {  
    display: flex;  
    margin-bottom: 20px;  
}  
  
#todo-input {  
    flex: 1;  
    padding: 10px;  
    border: 1px solid #ccc;  
    border-radius: 4px 0 0 4px;  
}  
  
#add-btn {  
    padding: 10px;  
    border: none;  
    background-color: #28a745;  
    color: white;
```

```
        cursor: pointer;
        border-radius: 0 4px 4px 0;
    }

    #add-btn:hover {
        background-color: #218838;
    }

    #todo-list {
        list-style: none;
        padding: 0;
    }

    .todo-item {
        display: flex;
        justify-content: space-between;
        align-items: center;
        padding: 10px;
        border: 1px solid #ccc;
        border-radius: 4px;
        margin-bottom: 10px;
    }

    .todo-item button {
        background-color: #dc3545;
        color: white;
        border: none;
        padding: 5px 10px;
        cursor: pointer;
        border-radius: 4px;
    }

    .todo-item button:hover {
        background-color: #c82333;
    }
}
```

Step 4: Add the JavaScript Code

1. **Open `app.js`:** Open the `app.js` file in your text editor.

Copy the JavaScript Code: Copy and paste the following JavaScript code into the `app.js` file:

```

class TodoApp {
  constructor() {
    this.todos = [];
    this.todoInput = document.getElementById('todo-
input');
    this.todoList = document.getElementById('todo-
list');
    this.addButton = document.getElementById('add-
btn');

    this.addButton.addEventListener('click', () =>
this.addTo());
    this.todoInput.addEventListener('keypress', (event)
=> {
      if (event.key === 'Enter') this.addTo();
    });
  }

  addTo() {
    const todoText = this.todoInput.value.trim();
    if (todoText) {
      const todo = {
        id: Date.now(),
        text: todoText
      };
      this.todos.push(todo);
      this.renderTodoList();
      this.todoInput.value = '';
    }
  }

  removeTodo(id) {
    this.todos = this.todos.filter(todo => todo.id !==
id);
    this.renderTodoList();
  }

  renderTodoList() {
    this.todoList.innerHTML = '';
    this.todos.forEach(todo => {

```

```

        const li = document.createElement('li');
        li.className = 'todo-item';
        li.innerHTML = `
            <span>${todo.text}</span>
            <button onclick="app.removeTodo($
{todo.id})">Delete</button>
        `;
        this.todoList.appendChild(li);
    });
}

const app = new TodoApp();

```

Step 5: Run the Application

1. Open the Project in a Browser:

- Navigate to the todo-app folder.
- Double-click the index.html file to open it in your default web browser.
- Alternatively, you can right-click on the index.html file and select "Open with" and choose your preferred web browser.

2. Test the Application:

- In the browser, you should see a simple to-do list interface.
- Enter a task in the input field and click the "Add" button or press "Enter" to add the task to the list.
- Each task will appear below the input field with a "Delete" button next to it.
- Click the "Delete" button to remove a task from the list.