

TASK-3

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Task Title: TO-DO App Development

Task Description: This project will challenge my skills in HTML, CSS, and JavaScript as you embark on the journey of creating a functional TO-DO App. The goal is to design a user-friendly interface that allows users to manage their tasks seamlessly.

Project details:

Technologies:

HTML: Structure your app.

CSS: Style your app for an appealing look.

JavaScript: Add dynamic and interactive functionalities.

Steps Taken:

- First I wrote the html code in new file in notepad and saved it as index.html
- In a new file in the notepad I wrote the css code and linked to html page via “href” tag and saved it as style.css.
- I implemented the javascript code in another new file and saved it as script.js.
- I run the index.html page in google chrome

Challenges Faced:

- I do not find much difficult to implement this task as I just feel a bit in implementing the javascript code.
- Because the functionalities like “add” , “delete” and “edit” somehow did not show much effectiveness in their working at the beginning .
- Later on working it continuously works in the way I expected.

Solutions Implemented:

HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Poppins&display=swap"
rel="stylesheet">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css" integrity="sha512-
iBBXm8fW90+nuLcSKlbmrPcLa0OT92xO1BIsZ+ysWZCvqsWgccV3gFoRBv
0z+8dLJgyAHIhR35VZc2oM/gI1w==" crossorigin="anonymous"
referrerpolicy="no-referrer" />
  <link rel="stylesheet" href="style.css">
  <title>To Do List</title>
</head>
<body>
  <header>
    <h1>My To Do List</h1>
  </header>
  <form action="">
    <input type="text" class="todo-input">
```

```
<button class="todo-button" type="submit">
  <i class="fas fa-clipboard-list fa-lg"></i>
</button>
<div class="select">
  <select name="todos" class="filter-todo">
    <option value="all">All</option>
    <option value="completed">Completed</option>
    <option value="incomplete">Incomplete</option>
  </select>
</div>
</form>
<div class="todo-container">
  <ul class="todo-list"></ul>
</div>
<script src="script.js"></script>
</body>
</html>
```

CSS Code:

```
* {  
    margin: 0;  
    padding: 0;  
    box-sizing: border-box;  
}  
  
body {  
    background:  
url('https://i.pinimg.com/originals/1a/a2/00/1aa2008c04d15f46d38b797cb1452ed4.  
gif') no-repeat center center fixed;  
    background-size: cover;  
    color: #333333;  
    font-family: "Poppins", sans-serif;  
    min-height: 100vh;  
}  
  
header {  
    font-size: 2rem;  
    color: #007acc;  
}  
  
header, form {  
    min-height: 20vh;  
    display: flex;  
    justify-content: center;
```

```
    align-items: center;
}
```

```
form input, form button {
    padding: 0.5rem;
    padding-left: 1rem;
    font-size: 1.8rem;
    border: 1px solid #007acc;
    background: #ffffff;
    color: #007acc;
    border-radius: 0.5rem;
}
```

```
form button {
    color: #ffffff;
    background: #007acc;
    cursor: pointer;
    transition: all 0.3s ease;
    margin-left: 0.5rem;
}
```

```
form button:hover {
    color: #007acc;
    background: #e0f7fa;
}
```

```
.todo-container {  
  display: flex;  
  justify-content: center;  
  align-items: center;  
}
```

```
.todo-list {  
  min-width: 30%;  
  list-style: none;  
}
```

```
.todo {  
  margin: 0.5rem;  
  padding: 0.5rem;  
  background: #ffffff;  
  color: #333333;  
  font-size: 1.5rem;  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
  transition: 0.5s;  
  border-radius: 0.5rem;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
}
```

```
.todo li {  
  flex: 1;  
}
```

```
.complete-btn, .trash-btn, .edit-btn {  
  color: #007acc;  
  border: none;  
  padding: 1rem;  
  cursor: pointer;  
  font-size: 1.5rem;  
}
```

```
.complete-btn {  
  background: #e0f7fa;  
}
```

```
.trash-btn {  
  background: #ffe6e6;  
}
```

```
.edit-btn {  
  background: #f0e68c;  
}
```

```
.todo-item {  
  padding: 0rem 0.5rem;  
}
```

```
.fa-trash, .fa-check-circle, .fa-edit {  
  pointer-events: none;  
}
```

```
.completed {  
  text-decoration: line-through;  
  opacity: 0.5;  
}
```

```
.slide {  
  transform: translateX(10rem);  
  opacity: 0;  
}
```

```
.select {  
  margin: 1rem;  
  position: relative;  
  overflow: hidden;  
  border-radius: 50px;  
}
```



```
select {  
  color: #007acc;  
  width: 10rem;  
  height: 3.2rem;  
  cursor: pointer;  
  padding: 1rem;  
  background: #ffffff;  
  border: 1px solid #007acc;  
  border-radius: 0.5rem;  
}
```

```
.select::after {  
  content: "\25BC";  
  position: absolute;  
  background: #007acc;  
  top: 0;  
  right: 0;  
  padding: 1rem;  
  pointer-events: none;  
  transition: all 0.3s ease;  
}
```

Javascript code:

```
const todoInput = document.querySelector(".todo-input");
const todoButton = document.querySelector(".todo-button");
const todoList = document.querySelector(".todo-list");
const filterOption = document.querySelector(".filter-todo");

document.addEventListener("DOMContentLoaded", getLocalTodos);
todoButton.addEventListener("click", addTodo);
todoList.addEventListener("click", deleteCheck);
filterOption.addEventListener("change", filterTodo);

function addTodo(event) {
  event.preventDefault();

  const todoDiv = document.createElement("div");
  todoDiv.classList.add("todo");

  const newTodo = document.createElement("li");
  newTodo.innerText = todoInput.value;
  newTodo.classList.add("todo-item");
  todoDiv.appendChild(newTodo);

  saveLocalTodos(todoInput.value);

  const completedButton = document.createElement("button");
  completedButton.innerHTML = '<i class="fas fa-check-circle"></i>';
```

```
completedButton.classList.add("complete-btn");  
todoDiv.appendChild(completedButton);
```

```
const trashButton = document.createElement("button");  
trashButton.innerHTML = '<i class="fas fa-trash"></i>';  
trashButton.classList.add("trash-btn");  
todoDiv.appendChild(trashButton);
```

```
const editButton = document.createElement("button");  
editButton.innerHTML = '<i class="fas fa-edit"></i>';  
editButton.classList.add("edit-btn");  
todoDiv.appendChild(editButton);
```

```
todoList.appendChild(todoDiv);  
todoInput.value = "";
```

```
}
```

```
function deleteCheck(e) {  
  const item = e.target;  
  
  if(item.classList[0] === "trash-btn") {  
    const todo = item.parentElement;  
    todo.classList.add("slide");  
  
    removeLocalTodos(todo);
```

```
    todo.addEventListener("transitionend", function() {  
        todo.remove();  
    });  
}
```

```
if(item.classList[0] === "complete-btn") {  
    const todo = item.parentElement;  
    todo.classList.toggle("completed");  
}
```

```
if(item.classList[0] === "edit-btn") {  
    const todo = item.parentElement;  
    const todoItem = todo.querySelector(".todo-item");  
    const inputField = document.createElement("input");  
    inputField.type = "text";  
    inputField.value = todoItem.innerText;  
    inputField.classList.add("edit-input");
```

```
    todo.replaceChild(inputField, todoItem);
```

```
    inputField.addEventListener("keypress", function(e) {  
        if (e.key === "Enter") {  
            const editedValue = inputField.value;  
            todoItem.innerText = editedValue;  
            todo.replaceChild(todoItem, inputField);
```

```
        editLocalTodos(todoItem.innerText, editedValue);
    }
});
}
}
```

```
function filterTodo (e) {
    const todos = todoList.childNodes;
    todos.forEach(function(todo) {
        switch(e.target.value) {
            case "all":
                todo.style.display = "flex";
                break;
            case "completed":
                if(todo.classList.contains("completed")) {
                    todo.style.display = "flex";
                } else {
                    todo.style.display = "none";
                }
                break;
            case "incomplete":
                if(!todo.classList.contains("completed")) {
                    todo.style.display = "flex";
                } else {
                    todo.style.display = "none";
                }
            }
        }
    });
}
```

```
        }  
        break;  
    }  
});  
}
```

```
function saveLocalTodos(todo) {  
    let todos;  
    if(localStorage.getItem("todos") === null) {  
        todos = [];  
    } else {  
        todos = JSON.parse(localStorage.getItem("todos"));  
    }  
    todos.push(todo);  
    localStorage.setItem("todos", JSON.stringify(todos));  
}
```

```
function getLocalTodos() {  
    let todos;  
    if(localStorage.getItem("todos") === null) {  
        todos = [];  
    } else {  
        todos = JSON.parse(localStorage.getItem("todos"));  
    }  
    todos.forEach(function(todo) {
```

```
const todoDiv = document.createElement("div");
todoDiv.classList.add("todo");

const newTodo = document.createElement("li");
newTodo.innerText = todo;
newTodo.classList.add("todo-item");
todoDiv.appendChild(newTodo);

const completedButton = document.createElement("button");
completedButton.innerHTML = '<i class="fas fa-check-circle"></i>';
completedButton.classList.add("complete-btn");
todoDiv.appendChild(completedButton);

const trashButton = document.createElement("button");
trashButton.innerHTML = '<i class="fas fa-trash"></i>';
trashButton.classList.add("trash-btn");
todoDiv.appendChild(trashButton);

const editButton = document.createElement("button");
editButton.innerHTML = '<i class="fas fa-edit"></i>';
editButton.classList.add("edit-btn");
todoDiv.appendChild(editButton);

todoList.appendChild(todoDiv);
});
```

```
}
```

```
function removeLocalTodos(todo) {  
  let todos;  
  if(localStorage.getItem("todos") === null) {  
    todos = [];  
  } else {  
    todos = JSON.parse(localStorage.getItem("todos"));  
  }  
}
```

```
const todoIndex = todo.children[0].innerText;  
todos.splice(todos.indexOf(todoIndex), 1);  
localStorage.setItem("todos", JSON.stringify(todos));  
}
```

```
function editLocalTodos(oldValue, newValue) {  
  let todos;  
  if(localStorage.getItem("todos") === null) {  
    todos = [];  
  } else {  
    todos = JSON.parse(localStorage.getItem("todos"));  
  }  
  const todoIndex = todos.indexOf(oldValue);  
  todos[todoIndex] = newValue;  
  localStorage.setItem("todos", JSON.stringify(todos));  
}
```


Learnings:

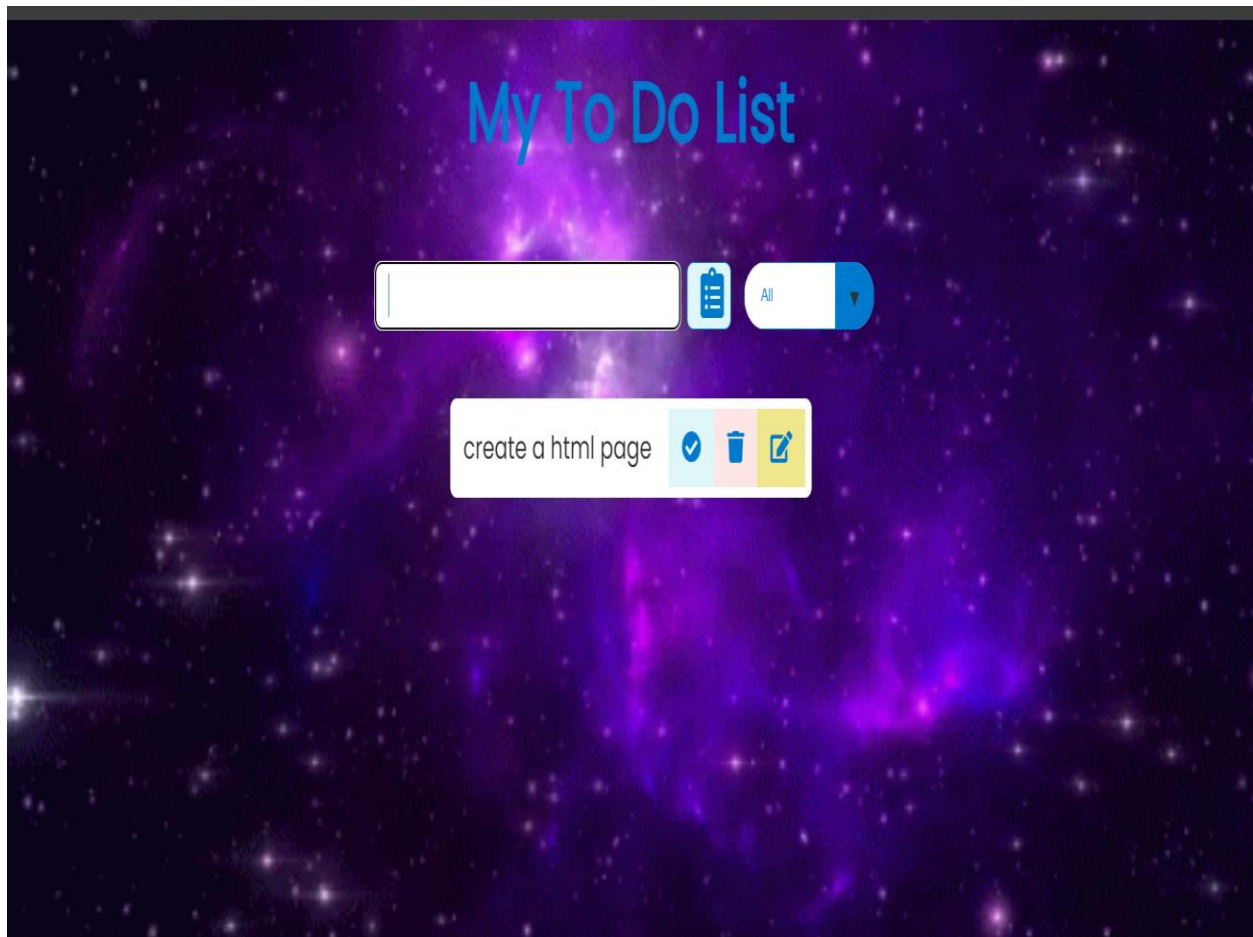
- I have learnt a lot while implementing the javascript code.
- I came to know the functionality of the javascript in real time .

Project Update:

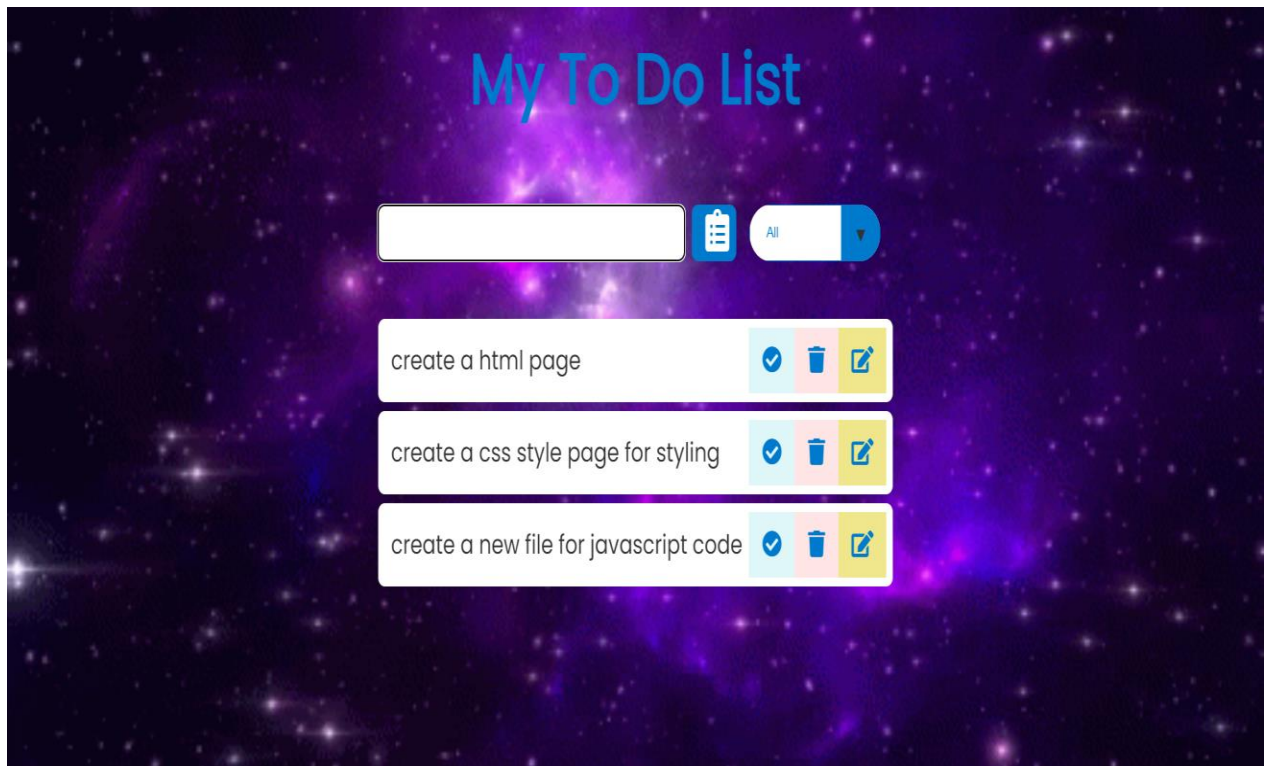
- Successfully implemented the TO-DO App developement assigned to the interns.

Screenshots:

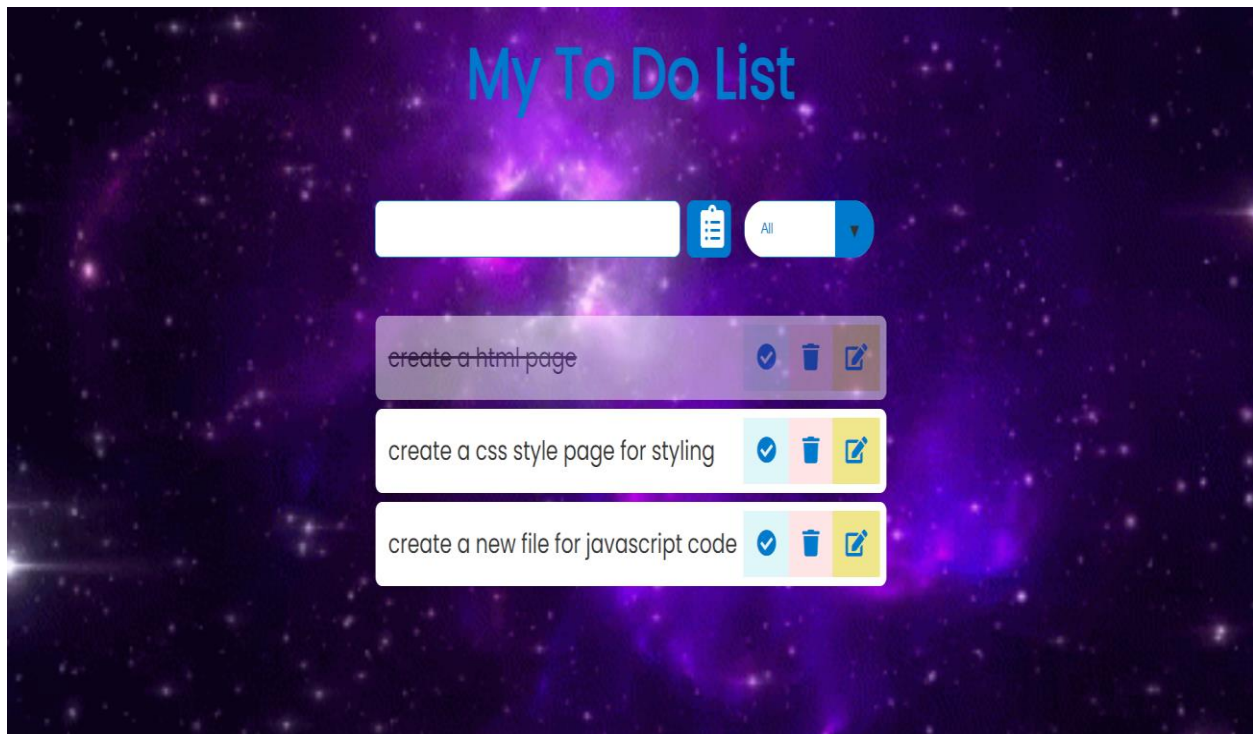
Output:



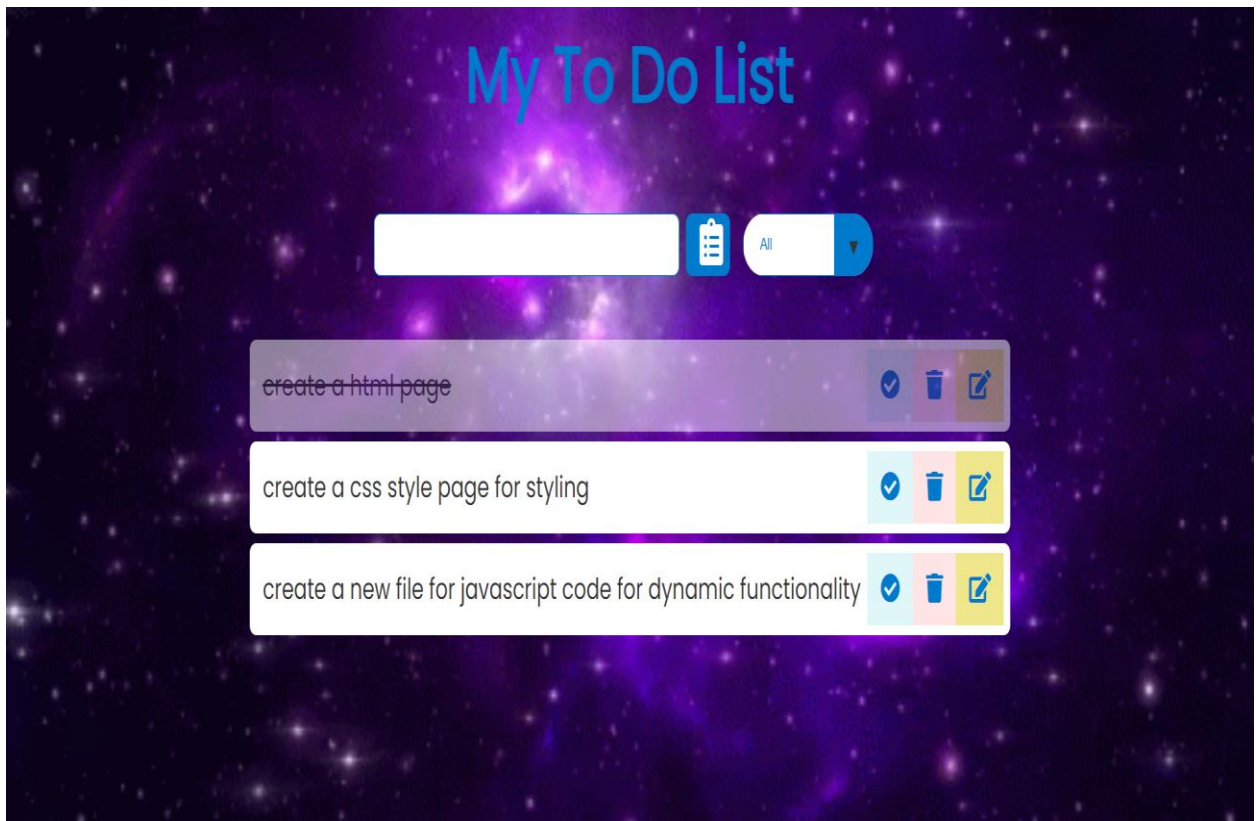
Adding the list functionality



Task completion functionality



Editing the list functionality



Deleting the list functionality

