PROJECT NAME:TO-DO-LIST

[HTML]

```html
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />

  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>

  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>

  <script src="https://kit.fontawesome.com/5f59ca6ad3.js" crossorigin="anonymous"></script>
</head>
<body>
  <div class="todos-bg-container">
    <div class="container">
      <div class="row">
        <div class="col-12">
          <h1 class="todos-heading">Todos</h1>
          <h1 class="create-task-heading">
            Create <span class="create-task-heading-subpart">Task</span>
```

```html
        </h1>

        <input type="text" id="todoUserInput" class="todo-user-input" placeholder="What needs
to be done?" />

        <button class="add-todo-button" id="addTodoButton">Add</button>

        <h1 class="todo-items-heading">

          My <span class="todo-items-heading-subpart">Tasks</span>

        </h1>

        <ul class="todo-items-container" id="todoItemsContainer"></ul>

      </div>

    </div>

  </div>

</div>

</body>

</html>
```

[CSS]

```css
@import
url("https://fonts.googleapis.com/css2?family=Bree+Serif&family=Caveat:wght@400;700&family=Lo
bster&family=Monoton&family=Open+Sans:ital,wght@0,400;0,700;1,400;1,700&family=Playfair+Dis
play+SC:ital,wght@0,400;0,700;1,700&family=Playfair+Display:ital,wght@0,400;0,700;1,700&family=
Roboto:ital,wght@0,400;0,700;1,400;1,700&family=Source+Sans+Pro:ital,wght@0,400;0,700;1,700&
family=Work+Sans:ital,wght@0,400;0,700;1,700&display=swap");

.todos-bg-container {

  background-color: #f9fbfe;

  height: 100vh;

}

.todos-heading {

  text-align: center;

  font-family: "Roboto";

  font-size: 46px;

  font-weight: 500;

  margin-top: 20px;

  margin-bottom: 20px;

}
```

```css
.create-task-heading {
  font-family: "Roboto";
  font-size: 32px;
  font-weight: 700;
}
.create-task-heading-subpart {
  font-family: "Roboto";
  font-size: 32px;
  font-weight: 500;
}
.todo-items-heading {
  font-family: "Roboto";
  font-size: 32px;
  font-weight: 700;
}
.todo-items-heading-subpart {
  font-family: "Roboto";
  font-size: 32px;
  font-weight: 500;
}
.todo-items-container {
  margin: 0px;
  padding: 0px;
}
.todo-item-container {
  margin-top: 15px;
}
.todo-user-input {
  background-color: white;
  width: 100%;
  border-style: solid;
```

```css
    border-width: 1px;

    border-color: #e4e7eb;

    border-radius: 10px;

    margin-top: 10px;

    padding: 15px;

}

.add-todo-button {

    color: white;

    background-color: #4c63b6;

    font-family: "Roboto";

    font-size: 18px;

    border-width: 0px;

    border-radius: 4px;

    margin-top: 20px;

    margin-bottom: 50px;

    padding-top: 5px;

    padding-bottom: 5px;

    padding-right: 20px;

    padding-left: 20px;

}

.label-container {

    background-color: #e6f6ff;

    width: 100%;

    border-style: solid;

    border-width: 5px;

    border-color: #096f92;

    border-right: none;

    border-top: none;

    border-bottom: none;

    border-radius: 4px;

}
```

```css
.checkbox-input {

  width: 20px;

  height: 20px;

  margin-top: 12px;

  margin-right: 12px;

}

.checkbox-label {

  font-family: "Roboto";

  font-size: 16px;

  font-weight: 400;

  width: 82%;

  margin: 0px;

  padding-top: 10px;

  padding-bottom: 10px;

  padding-left: 20px;

  padding-right: 20px;

  border-radius: 5px;

}

.delete-icon-container {

  text-align: right;

  width: 18%;

}

.delete-icon {

  padding: 15px;

}

.checked {

  text-decoration: line-through;

}
```

[JAVASCRIPT]

```javascript
let todoItemsContainer = document.getElementById("todoItemsContainer");

let addTodoButton = document.getElementById("addTodoButton");

let todoList = [{
    text: "Learn HTML",
    uniqueNo: 1
  },
  {
    text: "Learn CSS",
    uniqueNo: 2
  },
  {
    text: "Learn JavaScript",
    uniqueNo: 3
  }
];

let todosCount = todoList.length;

function onTodoStatusChange(checkboxId, labelId) {
  let checkboxElement = document.getElementById(checkboxId);
  let labelElement = document.getElementById(labelId);
  labelElement.classList.toggle('checked');
}

function onDeleteTodo(todoId) {
  let todoElement = document.getElementById(todoId);
  todoItemsContainer.removeChild(todoElement);
}

function createAndAppendTodo(todo) {
  let todoId = 'todo' + todo.uniqueNo;
  let checkboxId = 'checkbox' + todo.uniqueNo;
  let labelId = 'label' + todo.uniqueNo;
```

```javascript
let todoElement = document.createElement("li");

todoElement.classList.add("todo-item-container", "d-flex", "flex-row");

todoElement.id = todoId;

todoItemsContainer.appendChild(todoElement);

let inputElement = document.createElement("input");

inputElement.type = "checkbox";

inputElement.id = checkboxId;

inputElement.onclick = function() {

    onTodoStatusChange(checkboxId, labelId);

}


inputElement.classList.add("checkbox-input");

todoElement.appendChild(inputElement);

let labelContainer = document.createElement("div");

labelContainer.classList.add("label-container", "d-flex", "flex-row");

todoElement.appendChild(labelContainer);

let labelElement = document.createElement("label");

labelElement.setAttribute("for", checkboxId);

labelElement.id = labelId;

labelElement.classList.add("checkbox-label");

labelElement.textContent = todo.text;

labelContainer.appendChild(labelElement);

let deleteIconContainer = document.createElement("div");

deleteIconContainer.classList.add("delete-icon-container");

labelContainer.appendChild(deleteIconContainer);

let deleteIcon = document.createElement("i");

deleteIcon.classList.add("far", "fa-trash-alt", "delete-icon");


deleteIcon.onclick = function() {

    onDeleteTodo(todoId);
```

```javascript
    };

    deleteIconContainer.appendChild(deleteIcon);

}

for (let todo of todoList) {

    createAndAppendTodo(todo);

}

function onAddTodo() {

    let userInputElement = document.getElementById("todoUserInput");

    let userInputValue = userInputElement.value;


    if (userInputValue === "") {

        alert("Enter Valid Text");

        return;

    }

    todosCount = todosCount + 1;


    let newTodo = {

        text: userInputValue,

        uniqueNo: todosCount

    };


    createAndAppendTodo(newTodo);

    userInputElement.value = "";

}


addTodoButton.onclick = function() {

    onAddTodo();

}
```