

Todos Application

```
<!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/reFTGAW83EW2RDu2S0VVKalzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
    crossorigin="anonymous"></script>

    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-
    B4gt1jrGC7Jh4AgTPSdU0BvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV" crossorigin="anonymous"></script>

    <script src="https://kit.fontawesome.com/d1c2ea8b80.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>

            </h1>

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

            <button class="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>

            <button class="button" id="saveTodoButton">Save</button>

          </div>

        </div>

      </div>

    </div>
```

```
</div>
</body>
</html>
```

STYLE.CSS

```
@import
url("https://fonts.googleapis.com/css2?family=Bree+Serif&family=Caveat:wght@400;700&family=Lobster&family=
Monoton&family=Open+Sans:ital,wght@0,400;0,700;1,400;1,700&family=Playfair+Display+SC:ital,wght@0,400;0,70
0;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&f
amily=Source+Sans+Pro:ital,wght@0,400;0,700;1,700&family=Work+Sans:ital,wght@0,400;0,700;1,700&display=sw
ap");

.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;
}

.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;
  border-width: 1px;
  border-color: #e4e7eb;
  border-radius: 10px;
  margin-top: 10px;
  padding: 15px;
}

.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;
}

.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;
}
```

JS

```
let todoItemsContainer = document.getElementById("todoItemsContainer");
let addTodoButton = document.getElementById("addTodoButton");
let saveTodoButton = document.getElementById("saveTodoButton");
```

```
function getTodoListFromLocalStorage() {
  let stringifiedTodoList = localStorage.getItem("todoList");
  let parsedTodoList = JSON.parse(stringifiedTodoList);
  if (parsedTodoList === null) {
    return [];
  } else {
    return parsedTodoList;
  }
}
```

```
let todoList = getTodoListFromLocalStorage();
let todosCount = todoList.length;
```

```
saveTodoButton.onclick = function() {
  localStorage.setItem("todoList", JSON.stringify(todoList));
};
```

```
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,  
    isChecked: false  
};  
todoList.push(newTodo);  
createAndAppendTodo(newTodo);  
userInputElement.value = "";  
}
```

```
addTodoButton.onclick = function() {  
    onAddTodo();  
};
```

```
function onTodoStatusChange(checkboxId, labelId, todold) {  
    let checkboxElement = document.getElementById(checkboxId);  
    let labelElement = document.getElementById(labelId);  
    labelElement.classList.toggle("checked");
```

```
    let todoObjectIndex = todoList.findIndex(function(eachTodo) {  
        let eachTodold = "todo" + eachTodo.uniqueNo;
```

```
        if (eachTodold === todold) {  
            return true;  
        } else {  
            return false;  
        }  
    });
```

```
    let todoObject = todoList[todoObjectIndex];
```

```
    if(todoObject.isChecked === true){  
        todoObject.isChecked = false;  
    } else {  
        todoObject.isChecked = true;  
    }  
}
```

```
}
```

```
function onDeleteTodo(todold) {  
    let todoElement = document.getElementById(todold);  
    todoItemsContainer.removeChild(todoElement);
```

```
    let deleteElementIndex = todoList.findIndex(function(eachTodo) {  
        let eachTodold = "todo" + eachTodo.uniqueNo;  
        if (eachTodold === todold) {  
            return true;  
        } else {  
            return false;  
        }  
    });
```

```
    todoList.splice(deleteElementIndex, 1);  
}
```

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

```
let todoElement = document.createElement("li");
todoElement.classList.add("todo-item-container", "d-flex", "flex-row");
todoElement.id = todold;
todoItemsContainer.appendChild(todoElement);
```

```
let inputElement = document.createElement("input");
inputElement.type = "checkbox";
inputElement.id = checkboxId;
inputElement.checked = todo.isChecked;
```

```
inputElement.onclick = function () {
  onTodoStatusChange(checkboxId, labelId, todold);
};
```

```
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;
if (todo.isChecked === true) {
  labelElement.classList.add("checked");
}
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(todold);
};
```

```
deleteIconContainer.appendChild(deleteIcon);
}
```

```
for (let todo of todoList) {
  createAndAppendTodo(todo);
}
```

DIFFUSION BOMB

```
<!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/reFTGAW83EW2RDu2S0VVKalzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV" crossorigin="anonymous"></script>
  </head>
  <body>
    <div class="timer-container">
      <input type="text" class="user-input" id="defuser" />
      <br />
      
      <p class="timer-display" id="timer">10</p>
    </div>
  </body>
</html>
```

STYLE.CSS

```
@import
url("https://fonts.googleapis.com/css2?family=Bree+Serif&family=Monoton&family=Open+Sans:wght@400;700&fa
mily=Playfair+Display+SC:wght@400;700&family=Playfair+Display:wght@400;700&family=Roboto:wght@400;700&f
amily=Source+Sans+Pro:wght@400;700&family=Work+Sans:wght@400;700&display=swap");

.timer-container {
  text-align: center;
  background-color: #00bafc;
  height: 100vh;
  padding: 20px;
}

.timer-display {
```

```
color: white;
font-size: 50px;
}

.user-input {
text-align: center;
border-width: 0px;
border-radius: 4px;
padding: 6px;
}

.bomb-image {
width: 150px;
margin-top: 40px;
}
```

JS

```
let timerEl = document.getElementById("timer");
let defuserEl = document.getElementById("defuser");
let countdown = 10;

let intervalId = setInterval(function() {
  countdown = countdown - 1;
  timerEl.textContent = countdown;
  if (countdown === 0) {
    timerEl.textContent = "BOOM";
    clearInterval(intervalId);
  }
}, 1000);

defuserEl.addEventListener("keydown", function(event) {
  let bombDefuserText = defuserEl.value;
  if (event.key === "Enter" && bombDefuserText === "defuse" && countdown !== 0) {
    timerEl.textContent = "You did it!";
    clearInterval(intervalId);
  }
});
```