**Test Cases Document for To-Do List (Activity Manager)**

**Purpose**:  
To validate core features of the Activity Manager including adding, editing, deleting, toggling completion status, search functionality, and data persistence using localStorage.

**Test Categories**

1. **Functionality Testing** – Core operations (CRUD)
2. **UI Behavior Testing** – Interface interaction checks
3. **Storage Testing** – Data retention on refresh
4. **Search Testing** – Filtering activity titles

**Test Cases**

**Test Case 1: Add New Activity**

* **Input**: ID: 1, Title: "Read a book", Priority: High
* **Action**: User fills in details and clicks Add Activity
* **Expected Result**: "Read a book" is added and shown in the activity list with priority High
* **Actual Result**: (To be noted during execution)

**Test Case 2: Toggle Completion Status**

* **Input**: Existing activity "Read a book"
* **Action**: Click Toggle button
* **Expected Result**: The status of the activity changes to "Completed" (green text)
* **Actual Result**: (To be noted during execution)

**Test Case 3: Edit Existing Activity**

* **Input**: Change Title from "Read a book" to "Read a novel", Priority from High to Medium
* **Action**: Click Edit, update fields, then Save
* **Expected Result**: Activity updates to "Read a novel" with new priority
* **Actual Result**: (To be noted during execution)

**Test Case 4: Delete an Activity**

* **Input**: Existing activity "Read a novel"
* **Action**: Click Delete button
* **Expected Result**: Activity is removed from the list
* **Actual Result**: (To be noted during execution)

**Test Case 5: LocalStorage Persistence**

* **Input**: Add "Morning walk" and refresh the browser
* **Expected Result**: "Morning walk" remains visible after reload
* **Actual Result**: (To be noted during execution)

**Test Case 6: Search Functionality**

* **Input**: Type "walk" in the search bar
* **Action**: Observe filtered list
* **Expected Result**: Only "Morning walk" or matching titles are displayed
* **Actual Result**: (To be noted during execution)

**Test Case 7: Invalid Input Prevention**

* **Input**: Leave ID or Title blank, click Add Activity
* **Expected Result**: Error alert: “Please provide ID, Title, and Priority!”
* **Actual Result**: (To be noted during execution)