

# Test Plan

## TodoMVC Test Plan

Date: 16th May 2025

### 1. Objective

TodoMVC is a website which collates examples of the same "To-Do List" application implemented in all of the different JavaScript frameworks, for developers to use as examples when evaluating what framework they would like to use for their own application development.

The objective of this test plan is to test that the functionality of the TodoMVC website is working as expected based on the functional requirements. The testing needs to be complete in three days time (Tuesday 20th May, 5pm).

### 2. Scope of Testing

For this system test, we are just testing two new/updated JavaScript frameworks: React and Angular; and two existing JavaScript frameworks: Dojo and CanJS. Although there are 54 variations possible, this test will offer a good mix of new and existing frameworks and it is not possible or necessary to test all 54 variations before the release date.

### 3. Test Environment

We will be testing in the latest version of Chrome: Version 136.0.7103.114 on MacBook Air laptops.

We will only test in Chrome, as this is the only supported browser for this first project phase. We will also only test web browser compatibility, not mobile browser compatibility.

We are not completing performance testing with multiple users or white box testing of the code.

### 4. Coverage Criteria

**All of the functional requirements below need to have been tested in the frameworks in scope, for us to achieve 100% coverage:**

1. New todo items can be added
2. Todo items can always be modified
3. Todo items can always be individually deleted
4. A todo item can be marked completed or incomplete

5. All todo items can be marked as completed, whether they have been completed or not
6. If all todo items are marked as completed, they can all be marked as incomplete in one go
7. The list can be filtered on todo items' completion states
8. Complete todo items can be cleared from the list, when >0 completed todo items are listed
9. Status bar always displays a count of remaining todo items left to do
10. Todo items can be reordered

## 5. Features To Be Tested

**For each of the frameworks in scope, we want to verify the following features:**

### 5.1 Basic Functional Flow

- Add a todo item with valid text
- Edit item text of todo item and save
- Mark individual todo item as complete then incomplete
- Mark and unmark all todo items as complete then incomplete with toggle arrow
- Delete individual to do list item

### 5.2 Filtering Functionality

- Filter to show: All, Active, Completed
- Verify that the list is correctly filtered based on state
- Verify that items added while in Active or Completed filter view behave correctly and are visible in the All view

### 5.3 Clear Completed Functionality

- Mark multiple items as complete
- Use "Clear completed" to remove them
- Verify only completed items are removed

### 5.4 Status Bar Display

- Verify counter accuracy (0, 1, 2+ items left)
- Ensure status bar hidden when no todos exist

### 5.5 Reordering Items

- Drag and drop to reorder todos
- Verify list order updates and stays

### 5.6 Boundary and Edge Testing

- Input item with maximum character limit (e.g., 255 chars)
- Input item with single character, special characters, symbols, emojis, white space

- Attempt to add an empty todo item (expected result - should not be allowed)

## **6. Defect Management**

When a tester encounters a bug, they will raise a defect on the GitHub Issues page for the project. The tester should assign one of the following priorities:

- 1 - High: Requires immediate attention
- 2 - Medium: Should be fixed at some point before the launch
- 3 - Low: Should be fixed as soon as availability allows

The list of defects will be reviewed weekly by a panel which includes the Product Owner, the Development Manager, and the Test Lead.

## **7. Entry Criteria**

- The Product Owner notifies the test team that testing is ready to commence.

## **8. Exit Criteria**

- Testing will be deemed complete when all functional requirements are working as expected in the browser and frameworks that have been tested.