TODO Application

Test Plan

Contents

[1 Overview 3](#_Toc163222643)

[2 Purpose 3](#_Toc163222644)

[3 Test Environment 3](#_Toc163222645)

[4 Test Scope 3](#_Toc163222646)

[4.1 In-Scope 3](#_Toc163222647)

[4.2 Out-Of-Scope 3](#_Toc163222648)

[5 Test Scenarios 3](#_Toc163222649)

[5.1 Functionality Testing 3](#_Toc163222650)

[5.2 Test Use Cases 4](#_Toc163222651)

[6 Test Strategy 4](#_Toc163222652)

[6.1 Test Objectives 5](#_Toc163222653)

[6.2 Test Assumptions 5](#_Toc163222654)

[6.3 Types of Testing 5](#_Toc163222655)

[6.4 Test Entry and Exit Criteria 5](#_Toc163222656)

[6.5 Automation 6](#_Toc163222657)

# Overview

The TODO application provides users with core functionalities such as task creation, editing, status management, and deletion.

# Purpose

The purpose of this test plan is to outline the approach, scope, and test strategy for testing the TODO web application main functionalities in critical happy scenarios.

# Test Environment

* Browser: Chromium family
* Operating System: Ubuntu

# Test Scope

## In-Scope

This test plan covers the testing of only happy paths for the below functionalities of TODO application.

* Task creation
* Task Edit
* Task Status
* Task Deletion
* Task Status views

## Out-Of-Scope

This test plan doesn’t cover the testing of negative scenarios for the below functionalities of TODO application.

* Task creation
* Task Edit
* Task Status
* Task Deletion
* Task Status views

# Test Scenarios

## Functionality Testing

1. **Task Creation**

* User should be able to add a new task.
* Newly created task should be visible under the All and Active status tabs.
* Count of the items left should be increased.

1. **Task Edit**

* User should be able to edit an existing task by double clicking on it.
* Changes made to the task should be saved and reflected in the task list.

1. **Task Status**

* User should be able to mark an active task as complete.
* Completed tasks should be displayed only under completed status tab.
* User should be able to change the status of a completed task as active.
* Task status changed from complete to active should be displayed only under all and active status tabs.

1. **Task Deletion**

* User should be able to delete any tasks by clicking on “X” mark.
* User should be able to delete all the completed tasks at once by clicking on “Clear Completed” button.
* Deleted tasks should not be displayed under All/Active/Completed status tabs.
* Count of the items left count should be decreased.

1. **Task Status Views**

* User should be able to view all (active and completed) tasks under all status tab.
* User should be able to view only active tasks under active status tab.
* User should be able to view only completed tasks under completed status tab.

## Test Use Cases

**Feature: Task Deletion**

**Scenario: Deleting an existing task**

* Given the user is logged in to the TODO application
* And there is a task "Walk the dog" in the task list
* When the user clicks on the cross mark for "Walk the dog" task
* Then "Walk the dog" task should be deleted from the task list
* And the count of the items left displayed at the bottom of each status tab should be decreased by one

**Feature: Task Edit**

**Scenario: Editing an existing task**

* Given there is a task "Pay electric bill" in the task list
* When the user edits “Pay electric bill" with new description as “Pay latest electricity bill”
* Then “Pay electric bill” task should be updated as “Pay latest electricity bill”
* And the changes should be reflected in the task list

# Test Strategy

## Test Objectives

* Verify that tasks can be created, edited and deleted successfully
* Verify that tasks are displayed under respective status tabs
* Verify application performance under load

## Test Assumptions

* Test environment is deployed without any issues before start testing
* Test data is available for performing functional testing
* Testers have access to necessary tools and software required for testing

## Types of Testing

Below tests are advisable to have for TODO application:

Functional Testing:

* Component testing
* Smoke testing
* Integration testing
* Regression testing
* Sanity testing
* System testing
* Acceptance testing

Non – Functional Testing:

* Performance – Load and Stress testing
* Compatibility testing

## Test Entry and Exit Criteria

Entry criteria to start the execution phase of the test and Exit criteria for completing the test.

1. **Entry criteria:**

* Test environment(s) is available
* Test data is available
* Integration is completed
* Test scripts are completed, reviewed and approved by the product owner

1. **Exit criteria:**

* 100% Test Scripts executed
* Test execution report with all expected and actual results are captured and documented with the test script for regression and SIT
* All the failed test cases are re run after fixing and retesting of the bugs
* No open Critical and High severity defects
* Any outstanding defects should be low prioritized and moved to future release after approval of product owner
* Any observations/clarifications are marked as enhancements and moved to future release

1. **Test suspension criteria:**

* On executing smoke test suite, if defects are found which blocks happy path, QA team can hold the execution until the blocker defects are fixed by the development team.
* QA signoff - If Regression test suite execution status is 40% failed, then QA team can suspend the execution until the failed test cases are addressed by the Development team.

## Automation

Main functionality tests of the TODO application like Task creation, editing, deletion, and status management can be automated to minimize testing efforts required for regression testing.

**Bug Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Steps to Reproduce** | **Screenshot** | **Severity** | **Priority** |
| Select all icon is showing pointer. Should be changed to hand glove as it is clickable |  |  | Low | High |
| Checkbox is showing pointer. Should be changed to hand glove as it is clickable |  |  | Low | High |
| Select/Unselect all icon should be changed to checkbox instead of down arrow mark, as down mark is giving a sense of collapsible/expandable functionality |  |  | Low | High |
| Count of items left under completed tab is not accurate | Step1: Under All tab, mark an active task as completed  Step2: Navigate to completed tab  Step3: View the items left count at the bottom of the tab  Expected Behaviour: “1 item completed” should be displayed  Actual Behaviour:  “1 item left” is displayed |  | High | High |

**Enhancements**

|  |
| --- |
| **Description** |
| Status view buttons background can be color filled to give more clear visibility to the user |
| User responsive message for task creation, deletion and update can be added to give confirmation o the user after each action is performed |
| Edit icon/on hover tooltip can be added for each task instead of double click for better UX |
| On hover tooltips can be added for each status view buttons to give a clear information to the user about each status |
| Camel casing can be changed for todos title |