

Test Plan

Project Title: Flask.io To-Do List website

1. Test Objective

To verify the functional correctness, boundary conditions, and UI consistency of the core features: adding, editing, and deleting tasks, in the To-Do List application. The goal is to identify potential defects that may affect usability, data validation, or visual alignment.

2. Scope

In Scope:

- Functional Testing:
 - Add new task with and without due date
 - Edit an existing task (text and due date)
 - Mark a task as completed.
 - Delete a task (completed and pending)
- UI Testing:
 - Button positions and visibility.
 - Color coding of completed vs pending tasks.
 - Input field alignment and responsiveness.
 - Clearness (readability and usability) of a typing field.
- Boundary Testing:
 - Max/min characters in task input
 - Handling empty tasks
 - Task limit (if applicable)

Out of Scope:

- Backend/API testing.
- Performance or load testing.
- Cross-browser testing.

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3. Test Strategy

- **Manual Testing**, executed on a local or hosted environment.
- Black-box approach to focus on inputs and outputs without knowing internal code.
- Use of **exploratory testing** to uncover unlisted behaviors or usability issues.
- **Automation Testing** (Selenium + TestNG in Java) (Selenium + Unittest)
- **Tool Stack:**
 - Selenium WebDriver for browser interaction.
 - TestNG as Java test framework
 - Unittest as the Python test framework
- **Structure:**
 - Use Page Object Model (POM) for maintainability, readability, and reusability.
- **Reporting:**
 - Use console and optional HTML reports to summarize pass/fail results

Test Design Techniques:

- Error Guessing
- Positive & Negative Scenarios

Deliverables:

- Test Cases (Functional, UI, Boundary)
- Test Execution Report
- Bug Report.

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4. Test Environment

Component Details

Device Windows 10 (Desktop)

Browser Chrome.

URL <https://flask.io/7XmdCLDx8zHp>

Tools Google Sheets for test cases & bug reports.

Test Data Manually prepared.