**Test plan for Item manager application**

1. **Introduction**

Objective:  
The objective of this test plan is to identify and validate functional requirements of the **“Item Manager”** web application. The scope is to ensure the CRUD operations (Create, Read, Update & Delete) working as expected   
  
Scope:  
The scope of testing covers the functional validation of the item manager application, focusing on its main features:   
  
Adding items to the list

Viewing items in the list

Editing items in the list

Deleting items from the list

1. **Test Strategy**Testing Types:  
    Functional Testing : Verify the all functions of the application operate as expected  
    Negative Testing : Verify the application by doing invalid and unexpected behaviors  
    Automation Testing : Verify using automation framework for appropriate test cases  
     
   Manual testing will be conducted in the initial phase for finding bugs or potential issues. Automation testing will be implemented based on the priority of manual execution. Automation based on cypress framework picked hence it is a single base component web application and can easily use this framework also in build assertions having can make more efficient.
2. **Test Environment**Setup:  
   A Local machine with node.js installed  
   The React(Framework) running in the localhost (Ex: http://localhost:3000)  
   The Express (Backend) running in the localhost (Ex: http://localhost:4000)
3. **Test Cases**Separate sheet updated
4. **Roles**

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| --- | --- | --- |
| Role | Description | **Author** |
| QA Engineer | Create test plan, Write test cases, perform manual and automation testing | Baasith Fazil |

1. **Risks**There may be changes in requirements during the test execution phase.

Unstable test environment or server issues could impact the testing process.

**7. Schedule  
  
Day 1**: Setup the test environment, write manual test cases, and perform manual testing.

**Day 2**: Automate test cases using Cypress and document test results.