**THE OPPENHEIMER PROJECT**

**Test Strategy**

**Revision History**

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| --- | --- | --- | --- |
| Date | Version | Author | Description |
| 13/11/2021 | 1.0 | Shameem | OPPENHEIMER PROJECT testing strategy |
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# Document Purpose

## Document Purpose

The purpose of this document is to outline the high- level test strategy for the OPPENHEIMER PROJECT project, defining the preliminary test scope, high-level test activities, and organization, together with test management for the project. The test strategy provides the framework for estimating the duration and cost of the testing effort at the required confidence level for the business case.

## Referenced documents

|  |  |  |  |
| --- | --- | --- | --- |
| Document reference | Version | Date | File location |
| GDS\_QE\_Challenge | 1.0 | 13/11/2021 |  |
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# Scope

Scope of this project is to test below user stories.

## In scope

1. As the Clerk, I should be able to insert a single record of working class hero into database via an API
2. As the Clerk, I should be able to insert more than one working class hero into database via an API
3. As the Clerk, I should be able to upload a csv file to a portal so that I can populate the database from a UI
4. As the Clerk, I should be able to upload a csv file to a portal so that I can populate the database from a UI
5. As the Governor, I should be able to see a button on the screen so that I can dispense tax relief for my working class heroes

## Out of scope

1. Any other functionality not defined in the scope.
2. Hardware changes to the server

# Test Approach

## Roles and responsibilities

* Roles and responsibilities of each team member

## Types of Testing

API Testing - API testing will be done to verify all the API’s exposed are working as expected.

Functional Testing – The project website will be tested for the functionality mentioned in the scope. And for the appearance and the usability of the website

Performance Testing – Performance of the API and the website will be tested

Regression Testing - When there is consecutive builds regression testing will be performed to verify the existing functionality of the application.

User Acceptance Testing – UAT testing will be performed to get the approval from the product team before deploying to the production.

## Testing approach

|  |  |
| --- | --- |
| Type of testing | Approach |
| API Testing | Automation |
| Functional Testing | Automation & Manual |
| Performance testing | Automation |

# Test Environment

* Define number of requirement and setup required for each environment
* Define backup of test data and restore strategy

# Testing Tools

## Test management tools

* TFS/ JIRA for Test case and defect management

## Automation Tools

* Eclipse – Selenium: For functional test automation
* Eclipse – RestAPI: For API Test automation
* JMeter : For performance testing

# Release Control

Define the release plan here

# Review and Approvals

* All these activities are reviewed and sign off by the business team, project management, development team, etc.
* Summary of review changes should be traced at the beginning of the document along with approved date, name, and comment