**Test Plan**

**for**

**Average Movie Budget**

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# Introduction

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

## Objectives

Average Movie Budget is a web-based application used to search and get information about the movies (budget, description, release date), select movies from the dropdown menu and add movies to the movie list, calculating the average budget of the selected movies.

## Team Members

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| Edward Isakov | QA Engineer |
|  |  |
|  |  |

# Scope of Testing

2.1 Feature to be tested

|  |  |  |
| --- | --- | --- |
| **Module Name** | **Role** | **Description** |
| Search | User | The search bar should allow a user to search for movies and display results in a dropdown |

1. TC\_001 – When you entering movie name dropdown menu should show movies.
2. TC\_002 - When user start typing word in text box it should suggest words that matches typed keyword.
3. TC\_003 - Without entering anything in the search box click on the Search button.
4. TC\_004 - User should be able to search when he enters the keyword and hits ‘Enter’ button on keyboard.
5. TC\_005 – Sent API request for searchbox

|  |  |  |
| --- | --- | --- |
| Dropdown menu | User | Clicking an item from the dropdown should add the movie to the list of movies. |

1. TC\_006 – When you click on the movie from dropdown it whould add to movie list
2. TC\_007 - Check that there should not be any blank value shown in the dropdown list.
3. TC\_008- Check that there should not be any dublicate value shown in the dropdown list.
4. TC\_009 - Verify field should be clickable
5. TC\_0010 - Validate dropdown should open

|  |  |  |
| --- | --- | --- |
| Movie functions | User | Movies should be able to be removed from the movie list.. |

1. TC\_011 – When you click on “Remove movie” button movie should remove from the movie list

|  |  |  |
| --- | --- | --- |
| Average budget calculator | User | The average budget for all movies in the movie list should be displayed at the top of the list |

1. TC\_012 Average budget calculator should calculate average budget of selected movie from movie list

2.2 Feature not to be tested

These feature are not be tested because they are not included in the software requirement

specs

1. Hardware Interfaces
2. Database logical
3. Communications Interfaces
4. Website Security and Performance

2.3 Test Type

1. In this project, there’re 3 types of testing should be conducted.
2. Smoke Testing
3. Functional Testing

- Cross-browser Testing

- Cross-platform Testing

1. API testing

2.4 Test Logistics

2.4.1 Who will test?

The project should test QA engineer

2.4.2 When will test occur?

The tester will start the test execution when all the following inputs are ready

- Software is available for testing

- Test Specification is created

- Test Environment is built

- Enough human resource for testing

# Test Criteria

3.1 Suspension Criteria

If the team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

3.2 Exit Criteria

Specifies the criteria that denote a successful completion of a test phase

- Run rate is mandatory to be 100% unless a clear reason is given.

- Pass rate is 80%, achieving the pass rate is mandatory.

# Resource Planning

## System Resource

|  |  |  |
| --- | --- | --- |
| **No.** | Resources | Descriptions |
| 1 | Computer | Desktop,Laptop(Mac, Windows), Browser(Chrome,Firefox, Safary,Opera) |
| 2 | Mobile | IOS, Android, Browser(Chrome,Firefox, Safary,Opera) |

# Risks

## Risks

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Risk | Impact | Trigger | Mitigation Plan |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
|  |  |  |  |  |

# Test Approach

## Test Automation

Automated functional and API tests are planned in this testing.

Using Selenium with Java,Maven,TestNG for UI functional testing

and Rest Assured with Java fo API

# Milestones / Deliverables

## Test Schedule

The initial test schedule follows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning |  |  |  |  |
| Review Requirements documents |  |  |  |  |
| Create initial test estimates |  |  |  |  |
| Functional testing – Manual |  |  |  |  |
| Build Automation Framework |  |  |  |  |
| Functional testing – Automation |  |  |  |  |
| System testing |  |  |  |  |
| Regression testing |  |  |  |  |
| UAT |  |  |  |  |
| Resolution of final defects and final build testing |  |  |  |  |
| Deploy to Staging environment |  |  |  |  |
| Performance testing |  |  |  |  |
| Release to Production |  |  |  |  |

## Deliverables

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **For** | **Date / Milestone** |
| Test Plan | Project Manager; QA Director; Test Team |  |
| Traceability Matrix | Project Manager; QA Director |  |
| Test Results | QA Team |  |
| Test Status report | QA Manager, QA Director |  |
|  |  |  |
| Metrics | All team members |  |
|  |  |  |