Software Testing Plan

Rappid app development

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# Testing

## Testing Tools

* Automated testing tools that can conduct tests and auto generate test data.
* Debugging tools used by the development to manually find bugs and errors in the code.

## Testing Environment

* A modern Windows 10 computer.
* An internet network connection.
* A server to host the website and database. A solution such as USBWebServer may also be satisfactory.
* The Google Chrome web browser to navigate the website.

## Test Cases

These are the test cases for the current version of the project.

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | Description | Expected Outcome | Evidence |
| Case 1 | Open the website/Click the Home button in the header | Opens the home page (index) |  |
| Case 2 | Click the Search button in the header | Opens the search page, there will be no search results at first |  |
| Case 3 | Click the Top Searches button in the header | Opens the top 10 searches page, the graph will be empty at first |  |
| Case 4 | Search for a movie title only | Displays movies containing the term in its title | Searched for “monkey” in title textbox |

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | Description | Expected Outcome | Evidence |
| Case 5 | Search for a movie genre only | Displays movies containing the term in its genre | Searched for “horror” in genre textbox |
| Case 6 | Search for a movie rating only | Displays movies containing the term in its rating | Searched for “PG” in rating textbox |
| Case 7 | Search for a movie year only | Displays movies containing the term in its year | Searched for “1999” in year textbox |
| Case 8 | Search using multiple textboxes | Displays movies containing the term in the specified columns | Searched for “12 Monkeys, R, 1995, Drama” |
| Case 9 | Search with no matching results | Displays a “No results” message | Searched for “Movie, G, 2000, Horror” |
| Case 10 | View top searches page after making several searches | Displays a graph showing the top 10 searched movies |  |
| Test Case | Description | Expected Outcome | Evidence |
| Case 11 | Different browsers | Tested on chrome, firefox and Edge | Chrome  Firefox    Edge |
| Case  12 | Different sizes for scaling purposes | 100% and 150% | 100%    150% |
| Test Case | Description | Expected Outcome | Evidence |
| Case 13 | Singing up using only a first name | Error given |  |
| Case 14 | Singing up using a full name | Email and name added to database |  |
| Case 15 | Singing up using an already existing account | Error given |  |
| Case 16 | Singing up using a number in the name | Error given |  |
| Case 17 | Singing up using an incorrect email | Error given |  |
| Case 18 | Singing up using a correct email | Email and name added to database |  |
| Case 19 | Singing up and not selecting either Send an email or Show notifications | Error given |  |
| Case 20 | Singing up and selecting only Send an email | Email and name added to database only for sending emails |  |
| Case 21 | Singing up and selecting only Show notifications | Email and name added to database only for notifications |  |
| Case 22 | Choosing to unsubscribe | Email sent to admin |  |
| Test Case | Description | Expected Outcome | Evidence |
| Case 23 | Adding an admin | Adds a new admin to the database |  |
| Case 24 | Signing in as an admin | Allows access to admin controls |  |
| Case 25 | Unsubscribing a user | Changes the user’s status to not receive emails |  |
| Case 26 | Removing a user | Removes them from the database |  |
| Case 1 | Creating an admin using an incorrect password | Error given |  |
| Case 2 | Creating an admin using the correct password | Admin added to database |  |
| Case 3 | Click on top 10 rated movies | Graph shown |  |
| Case 4 | Click on top 10 rated movies history | Shows positions of previous ranking in the data base |  |