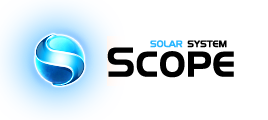
6/15/2024

**QA Project**

Version 1.1



Solar System Scope

**Software Test Design**

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**Introduction**

A document that outlines the methodologies used to design and develop test cases for our project. It specifies the test coverage strategy and the expected results for each test case according to the tree testing and system analysis.

Taking in consider the traceability between requirements and test cases.

**Objectives**

1. Test cases that should be covered:
   1. Valid sign in.
   2. Invalid sign in.
   3. Desktop app feature's view.
   4. Display of astronomy place map.
   5. Integration with Facebook webpage.
   6. Activity of webpage in German language.
2. Requirements of covering test cases:
   1. Name of the test case
   2. Target of the test case
   3. Data
   4. Preconditions
   5. Writer
   6. Date
   7. Priority
   8. Serial number of test case
   9. Steps
   10. Expected result
3. Project description

**Solar System Scope** is a unique planet maps are based on NASA elevation and imagery data. The objective of this test plan is to ensure that the application functions correctly, meets the specified requirements, and provides a seamless user experience.

1. Scope

The testing scope includes all functional and non-functional requirements of the Solar System Scope website.

* 1. Scope-in
     1. Functional tests
        1. Sanity test
        2. User interface tests
        3. Integration tests
     2. Non-functional tests
        1. Security tests
  2. Out of scope
     1. Functional tests
        1. Unit tests
        2. Component tests
        3. API tests
        4. Regression tests
        5. End To End tests
     2. Non-functional
        1. Performance tests
           1. Load
           2. Stress
           3. Volume
        2. Upgrade & Installation
        3. Usability
        4. Compatibility
        5. Globalization & Localization
        6. GUI
        7. Recovery tests

## **Team Members**

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| Majd Bader | Tester |
| Ehab Khalil | Tester |
| Ali Fares | Tester |

**Test cases for Solar System Scope Website**

|  |  |  |
| --- | --- | --- |
| Test Case | 1 |  |
|  |  |  |
| Name of the test case | Valid sign in. |  |
| Target of the test case | To ensure that a customer can login  successfully using valid details. |
| Data | Valid username, valid password. |
| Preconditions | Internet connection, active website,  active web browser, registered account. |
| Writer | Majd Bader |
| Date | 08-06-24 |
| Priority | 5 |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with "Account" button at the  right top part. |
| 2 | Click on "Account" button. | A pop-up window appears with bars options of inserting an email and a password with "Login" button. |
| 3 | Insert valid email address. | Email address is being written in the bar. |
| 5 | Insert valid password. | Password is being written in the bar. |
| 6 | Click on the "Login" button. | Home page returns with "Logout" button at the right top part. |
| 7 | Check display of "Logout" button. | "Logout" button is displayed. |
| 8 | Close website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 2 |  |
|  |  |  |
| Name of the test case | Invalid sign in. |  |
| Target of the test case | To ensure that a customer can not login  successfully using invalid details. |  |
| Data | Invalid username, invalid password |
| Preconditions | Internet connection, active website,  active web browser, unregistered account. |
| Writer | Ehab Khalil |
| Date | 09-06-24 |
| Priority | 5 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with "Account" button at the  right top part. |
| 2 | Click on "Account" button. | A pop-up window appears with bars options of inserting an email and a password with "Login" button. |
| 3 | Insert invalid email. | Email address is being written in the bar. |
| 4 | Insert invalid password. | Password dis being written in the bar. |
| 5 | Click on the "Login" button. | An error message of failed login appears. |
| 6 | Check display of message. | Message is displayed. |
| 7 | Close website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 3 |  |
|  |  |  |
| Name of the test case | Astronomy places map display. |  |
| Target of the test case | To ensure that a customer can preview astronomy places map. | |  | | --- | |  | |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Ali fares |  |
| Date | 10-06-24 |  |
| Priority | 4 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with an "EXPLORE" button at the right top of the page. |
| 2 | Click on "EXPLORE" button. | A tab appears of many links includes "Astronomy  Places" button. |
| 3 | Click on "Astronomy Places" button. | A new page opens. |
| 4 | Scroll down till you reach a map at the center of the page. | A map box is in the page. |
| 5 | Check display of the map. | The map is displayed. |
| 6 | Close the website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 4 |  |
|  |  |  |
| Name of the test case | Desktop app features preview. |  |
| Target of the test case | To ensure that a customer can view  features of desktop app. | |  | | --- | |  | |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Majd Bader |  |
| Date | 11-06-24 |  |
| Priority | 3 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with a "DOWNLOAD APP" button at the right top of the page. |
| 2 | Click on "DOWNLOAD APP" button. | A new page opens with a "preview" button at the right side of the page. |
| 3 | Click on "preview" button. | New page opens with an image of the "earth". |
| 4 | Check display of the image. | Image is displayed. |
| 5 | Close the website. | Website was closed. |
| 6 |  |  |

|  |  |  |
| --- | --- | --- |
| Test Case | 5 |  |
|  |  |  |
| Name of the test case | Adobe flash request for online apps. | |  | | --- | |  | |
| Target of the test case | To ensure that a customer can not run online maps without Adobe flash exist. |  |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Majd Bader |  |
| Date | 12-06-24 |  |
| Priority | 3 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solar system scope website. | Home page of the website opens with an "EXPLORE" button at the right top of the page. |
| 2 | Click on "EXPLORE" button. | A tab appears of many links includes "Online Apps" button. |
| 3 | Click on "Online Apps" button. | New page opens with a "Daylight Map" button. |
| 4 | Click on "Daylight Map" button. | New page opens with a message of Adobe Flash request. |
| 5 | Check display of the message. | Message is displayed. |
| 6 | Close the website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 6 |  |
|  |  |  |
| Name of the test case | Distant Places list open. |  |
| Target of the test case | To ensure that a customer can open  the Distant Places list. | |  | | --- | |  | |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Majd Bader |  |
| Date | 13-06-24 |  |
| Priority | 3 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solar system scope website. | Home page of the website opens with an "EXPLORE" button at the right top of the page. |
| 2 | Click on "EXPLORE" button. | A tab appears of many links includes "Astronomy  Places" button. |
| 3 | Scroll down till you reach a map at the center of the page with "Load more distant places" blue button and a list of "Nearby Places" under it. | "Load more distant places" blue button is displayed with the list. |
| 4 | Click on the "Load more distant places"  button | The list extended and more placed were added to it. |
| 5 | Scroll down till the end of the list and check the last added box. | Last added box is displayed. |
| 6 | Close the website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 7 |  |
|  |  |  |
| Name of the test case | Like button activity. |  |
| Target of the test case | To ensure that a customer can click the  "Like" button. | |  | | --- | |  | |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Ehab Khalil. |  |
| Date | 14-06-24 |  |
| Priority | 2 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solar system scope website. | Home page of the website opens. |
| 2 | Scroll down till you reach a "Like" button at the center of the page. | "Like" button is displayed. |
| 3 | Click on the "Like" button. | "Like" button was clicked. |
| 4 | Click again on the "Like" button. | "Like" button can not be clicked. |
| 5 | Close the website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 8 |  |
|  |  |  |
| Name of the test case | Logout successfully. |  |
| Target of the test case | To ensure that a customer can logout  successfully after being logged in. | |  | | --- | |  | |
| Data | Valid username, Valid password. |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Ali Fares. |  |
| Date | 15-06-24 |  |
| Priority | 5 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with "Account" button at the  right top part. |
| 2 | Click on "Account" button. | A pop-up window appears with bars options of inserting an email and a password with "Login" button. |
| 3 | Insert valid email address. | Email address is being written in the bar. |
| 5 | Insert valid password. | Password is being written in the bar. |
| 6 | Click on the "Login" button. | Home page returns with "Logout" button at the right top part. |
| 7 | Check display of "Logout" button. | "Logout" button is displayed. |
| 7 | Click on "Logout" button. | Logout button was clicked. |
| 8 | Check display of "Logout" button. | "Logout" button is not displayed. |
| 9 | Close the website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 9 |  |
|  |  |  |
| Name of the test case | Purchase steps tab opening. |  |
| Target of the test case | To ensure that a customer can open  "Purchase steps" tab. | |  | | --- | |  | |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser. |  |
| Writer | Majd Bader |  |
| Date | 16-06-24 |  |
| Priority | 2 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with a "DOWNLOAD APP" button at the right top of the page. |
| 2 | Click on "DOWNLOAD APP" button. | A new page opens. |
| 3 | Scroll down till you reach a "SHOW" button in a shape of a row. | "SHOW" button is displayed. |
| 4 | Click on "SHOW" button. | A new tab opens with 4 steps include their details. |
| 5 | Check display of the tab. | The tab is displayed. |
| 6 | Close the website. | Website was closed. |

|  |  |  |
| --- | --- | --- |
| Test Case | 10 |  |
|  |  |  |
| Name of the test case | Integration with an external website |  |
| Target of the test case | To ensure that a customer can integrate with  another website through SolarSystemScope website. | |  | | --- | |  | |
| Data |  |  |
| Preconditions | Internet connection, active website,  active web browser, active external website. |  |
| Writer | Ehab khalil. |  |
| Date | 17-06-24 |  |
| Priority | 3 |  |
|  |  |  |
|  |  |  |
| Serial number | Step | Expected result |
| 1 | Open solay system scope website. | Home page of the website opens with an "EXPLORE" button at the right top of the page. |
| 2 | Click on "EXPLORE" button. | A tab appears of many links includes "Astronomy  Places" button. |
| 3 | Scroll down till you reach a map at the center of the page with "Load more distant places" blue button and a list of "Nearby Places" under it. | "Load more distant places" blue button is displayed with the list. |
| 4 | Click on the "Load more distant places"  button | The list extended and more placed were added to it. and a link of "Home Page" is being displayed in each place box. |
| 5 | Click on the "Eretz Museum" link. | A new page of "Eretz Museum" website opens. |
| 6 | Check the URL of the current website. | The URL matches the "Eretz Museum" website URL. |
| 7 | Close the website. | Website was closed. |

## *The Traceability Table*

|  |  |  |  |
| --- | --- | --- | --- |
| **Req. #** | **Requirement Description** | **T.C. #** | **Test Case Description** |
| **1** | **User can submit a valid sign in using valid username and name and a valid password.** | **1** | Valid sign in. |
| **2** | **User can not submit a sign in a sign in using an invalid username or an invalid password.** | **2** | Invalid sign in. |
| **3** | **Allowing user to preview a map of astronomy places.** | **3** | Astronomy places map display. |
| **4** | **Allowing user to preview app features through the website.** | **4** | Desktop app features preview. |
| **5** | **Allowing user using online apps only with Adobe Flash only with an installed Adobe Flash.** | **5** | Adobe flash request for online apps. |
| **6** | **Verify interacting with opening and closing lists in the website.** | **6** | Distant Places list open. |
| **7** | **Verify buttons activity in the website.** | **7** | Like button activity. |
| **8** | **User can submit a log out after being signed in.** | **8** | Logout successfully. |
| **9** | **Verify interacting with opening and closing lists in the website.** | **9** | Purchase steps tab opening. |
| **10** | **Verify integration with an external website.** | **10** | Purchase steps tab opening. |

## **Conclusion**

This test design ensures comprehensive coverage of the software's functionalities, including positive and negative test cases. By following this plan, we can identify and address potential issues early in the development process, leading to a higher quality and more reliable software product.