**COMP.5211 Software Testing and Maintenance**

Test Plan on Html5 Canvas

To test the applications of local development company on various web browser

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**References**

**1. Introduction:**

The Test Plan document documents and tracks the necessary information required to effectively define the approach to be used in the testing of the project’s product. The Test Plan document is created during the Planning Phase of the project. Its intended audience is the project manager, project team, and testing team. Some portions of this document may on occasion be shared with the client/user and other stakeholder whose input/approval into the testing process is needed.

The test plan I have been working on is all about testing the application that have been created by the developers using HTML5 Canvas and testing it in various four browsers like Edge, chrome, Firefox, Chrome of mobile devices to make sure that it has been tested before being displayed and released to local art gallery.

The test will be conducted as per the features that need to be tested for test cases. The features to be tested are something like how the application works, how to figure out the application to make it easier for the user, user interaction with the application on multiple screen, whether the application have reset function for new instance and can the application break and its fixation process.

## 2.Suspension Criteria:

* If 50 % of test items get failed, then testing will be suspended, and project will refer to the Local Development company to look after and to fix it.

**3.Test Environment:**

a. OS:

Windows 10 pro

Version:1709

b. Software:

I used Automation testing system, and use the functional testing, usability testing, security testing, performance testing and regression testing for Google chrome, Microsoft Edge, Mozilla Firefox and chrome for mobile devices.

c. Hardware:

|  |  |
| --- | --- |
| CPU | 1Ghz or faster |
| RAM | 1Gb 32 bit or 2Gb 64 bit |
| GPU | Microsoft DirectX9 Graphics device with WDDM driver |

**4.Approach / Testing Types:**

**1. Black Box Approach**: It is theFunctional testing approach focuses on application externals**,** we can call it as Requirements-based or Specifications-based.

Type of Test during Black Box Approach:

1. **System Testing**: It demonstrates all programs function and works together as designed. This test is performed when all the individual component objects have been released and integrated into a single system. Documented non-functional requirements such as performance, volume, stress, capacity and security are also verified. Attention is paid to regression testing during this phase.

b. **User Acceptance Testing**:The testing performed for or by user is called useracceptance testing or UAT. The purpose is to ensure that end users are satisfied with the functionality and performance of the system.

## 5.Test Items:

|  |  |
| --- | --- |
| **Software** | **Versions** |
| Edge | 39.14986 |
| Google chrome | 65.0.3325 |
| Mozilla Firefox | 59.0.2 |
| Chrome for mobile devices | 65.0.3325 |

## 6.Risks:

|  |  |  |  |
| --- | --- | --- | --- |
| S.no. | Risk | Mitigation factor | Correction |
| 1. | **DEFECTS**  Defects are found at a late stage of the cycle or at a late cycle | Ensure prompt communication and fixing of issues. | Yes |
| 2. | Delayed Testing Due to New Issues | New defects identified and time to fix new issues | Yes |
| 3. | **SCOPE**  Scope completely defined | Scope is well defined, but the changes are in the functionality are not yet finalized or keep on changing. | No |

**7.Approvals:**

The Names and Titles of all persons who must approve this plan.

|  |  |
| --- | --- |
| **Signature:** |  |
| **Name:** |  |
| **Role:** |  |
| **Date:** |  |

|  |  |
| --- | --- |
| **Signature:** |  |
| **Name:** |  |
| **Role:** |  |
| **Date:** |  |

**8.Schedule:**

* Firstly, I went through functional testing where is tested the system against the functional requirements/specifications.
* Then I test the software using end-user’s perspective to determine if the system is easily usable.
* Then I did security testing to make sure that my system is free of vulnerabilities.
* After that I did performance testing to make sure that my system is ready to take certain load working efficiently.
* Then I went through regression testing where we ensure changes to the software which do not affect the system
* Finally, I went through compliance testing to determine the compliance of system with internal and external standards.

**9.Test Cases:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Software** | Microsoft Edge | | |
| **Description/Action** | **Expected Results** | **Yes/No** | **Comments** |
| Does the application work as expected? | Should be faster | NO | Its bit slower than Chrome and Firefox |
| Is it clear for the user to figure out how to use the application? |  | YES |  |
| Can the user interact with the application on multiple screen sizes? |  | YES |  |
| Is the user able to reset the application for a new instance? |  | YES |  |
| Can the app break? - Recommendations on how to fix it? | **Settings > Apps > Microsoft Edge > Advanced options** | YES |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Software** | Google Chrome | | |
| **Description/Action** | **Expected Results** | **Yes/No** | **Comments** |
| Does the application work as expected? |  | YES |  |
| Is it clear for the user to figure out how to use the application? |  | YES |  |
| Can the user interact with the application on multiple screen sizes? |  | YES |  |
| Is the user able to reset the application for a new instance? |  | YES | Should follow bit long step |
| Can the app break? - Recommendations on how to fix it? | Close chrome>restart chrome>restart computer | YES |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Software** | Mozilla Firefox | | |
| **Description/Action** | **Expected Results** | **Yes/No** | **Comments** |
| Does the application work as expected? |  | YES |  |
| Is it clear for the user to figure out how to use the application? |  | YES |  |
| Can the user interact with the application on multiple screen sizes? |  | YES |  |
| Is the user able to reset the application for a new instance? |  | YES |  |
| Can the app break? - Recommendations on how to fix it? | Download error repair tool>Install>Scan>Fix Issues>Restart computer | YES |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Software** | Chrome for mobile devices | | |
| **Description/Action** | **Expected Results** | **Yes/No** | **Comments** |
| Does the application work as expected? |  | YES |  |
| Is it clear for the user to figure out how to use the application? |  | YES |  |
| Can the user interact with the application on multiple screen sizes? |  | YES |  |
| Is the user able to reset the application for a new instance? |  | YES |  |
| Can the app break? - Recommendations on how to fix it? | Close chrome>restart chrome>restart device | YES |  |

**References:**

1. <http://softwaretestingfundamentals.com/software-testing-types/>
2. <https://www.tutorialspoint.com/software_testing/>
3. <https://en.wikipedia.org/wiki/Google_Chrome_version_history>
4. <https://en.wikipedia.org/wiki/Microsoft_Edge>
5. <https://en.wikipedia.org/wiki/Firefox_version_history>
6. <https://www2a.cdc.gov/cdcup/library/templates/CDC_UP_Test_Plan_Template.doc>