***TEST SPECIFICATION***

**REQUEST US & MAPS VIEW**

**1.0 Introduction**

Software testing is a process of running with intent of finding errors in software. Software testing assures the quality of software and represents final review of other phases of software like specification, design, code generation.

**1.1 Goals and objectives**

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the software system meets its requirements and user expectation and does not fail in an unacceptable manner. There are various types of testing. Each test type addresses a specific testing requirement.

**1.2 Statement of scope**

Request Us & Maps are two enhancements for the existing application called **chatrasahaya** for a web application. Our application is designed for User/Customer for requesting of required categories likes education,financial,Health to gain best education for less budget schools or free schools for the existing application.Maps can show the count for the each state based on requests completed by the users/team.And This new features can be tested individually and as well as whole application as final product.Need to perform for the sanity testing whether existing features are working fine or not for the **chatrasahaya** web application.

**2.0 Test Plan**

There are different types of testing to be performed on application.

**Unit Testing:**

Unit testing is a software testing technique in which individual units or components of a software application are tested in isolation from the rest of the application. The primary goal of unit testing is to ensure that each unit of code, such as a function, method, or class, performs as expected when given specific inputs, and produces the correct output.

Here we will do the unit testing for the Request US Page and its fields

**Integration Testing:**

Integration testing is a software testing technique that focuses on verifying the interactions and interfaces between different components or modules of a software application. The primary goal of integration testing is to ensure that these components work together as intended, that data and control flow between them is correct, and that the integrated system functions properly as a whole.

Here we will do the integration testing for the Request US Page,Mail Notification,Maps & Count view at combined once

**Validation Testing:**

It provides final assurances that software meets all functional, behavioral, performance requirements. The primary focus of validation testing is to ensure that the software, when used in its intended environment, delivers the desired functionality and performance, and that it complies with the user's needs and expectations

We will do the validation testing to the validate the enhancements whether working fine or not finally

**Performance Testing:**

This testing is to test the performance of the system. It is used to simulate a heavy load on a server, network to test its strength or to analyze overall performance under different load types.

We will do the performance testing when lot of users accessing the application at once

**Functional Testing:**

This testing is to test the behavior of the implemented features whether its meets the expected output or not, It is most important testing for the end user point of view and also technical concepts too

We will do the functional testing for all the new features to be tested

**2.1 Software to be tested**

|  |  |  |
| --- | --- | --- |
| **Feature** | **Test Conditions** | **Expected Output** |
| Request US | User has to enter/upload the request information either for him/his or others such name, phone, email, address, category,aadhar id,proof of documents needs to uploads | User has to enter/upload the request information in the request us page. |
| Mail Notification | User has to enter the request us information & submit it successfully to get the email user and can be seen in the sent emails of our internal email too, so that which can tracked from user end as well as internal team | User should be Mail and can be seen in the sent list for the internal email box. |
| Maps View | User can see the counts on the states of the map view after user successfully submitting the request us information | User should able to see the counts in the state map |
| Count View | User can see the request details by clicking on counts in the state view after user successfully submitting the request us information | User should able to see the request details when user clicks on the count view of the maps |

**2.3 Testing tools and environment**

To perform testing on our application, we are do manual testing on the each feature and also google extensions tools such as performance analyzer tool and also network tab of the inspect tab to check the response and performance of the application

**2.4 Test schedule**

Initially, we will be performing testing on the modules like Request Us & Mail Notification we will be testing remaining modules like Maps & Count Views . At the end we will be performing integration and Regression testing on the whole application.

|  |  |  |
| --- | --- | --- |
| **Feature** | **QA Start Date** | **QA End Date** |
| Request US | 11-02-2023 | 11-02-2023 |
| Mail Notification | 11-03-2023 | 11-03-2023 |
| Map View | 11-18-2023 | 11-18-2023 |
| Count View | 11-20-2023 | 11-20-2023 |

**3.0 Test Cases**

This section enumerates a complete list of test cases for the software. A template for test cases is as follows.

**Test cases for Request Us:**

|  |  |
| --- | --- |
| ID | Request\_1 |
| Test Input | No Data input, just User needs to clicks on Request Us link |
| Expected Output | Request Us Page should be displayed when user clicked on Request Us link |
| Description | User needs to click on request us link to display the request us page |

|  |  |
| --- | --- |
| ID | Request\_2 |
| Test Input | Name,Phone,Aadhar ID,Email, Category, Country,State,City,Zip,Address,Request Description,Proof of Upload |
| Expected Output | User needs to submit the request us page with the valid data input |
| Description | User has to enter his/her or other details to submit the request us page in the application. If these details of the data is valid, he. she will be shown the confirmation message or Else, error message should be displayed. |

|  |  |
| --- | --- |
| ID | Request\_3 |
| Test Input | Invalid format of the data fields |
| Expected Output | Error message should be display when user clicked on submit with invalid format of the data fields in the request us page |
| Description | User has to enter his/her or other details to submit the request us page in the application. If these details of the data is valid, he. she will be shown the confirmation message or Else, error message should be displayed. |

**Test cases for Mail Notification:**

|  |  |
| --- | --- |
| ID | Mail\_1 |
| Test Input | User needs to click on submit the request us page with the valid data |
| Expected Output | User/team should get the email notification with the request details after successfully submission |
| Description | User should be Mail and can be seen in the sent list for the internal email box. |

**Test cases for Maps View:**

|  |  |
| --- | --- |
| ID | Map\_1 |
| Test Input | No Data input, just User needs to clicks on Request Us Map View link |
| Expected Output | Map view page with states should be display when user clicked on Map view |
| Description | User needs to click on map view to see the map view |

|  |  |
| --- | --- |
| ID | Map\_2 |
| Test Input | No Data input, just User needs to clicks on Counts on the Map View link |
| Expected Output | Count view with the request details should be display when user clicked on Counts on the Map |
| Description | User can click on counts on the map to view the request details by the end users |

**Test cases for Count View:**

|  |  |
| --- | --- |
| ID | Count\_1 |
| Test Input | No Data input, just User needs to clicks on Counts on Map View |
| Expected Output | Request us details should be display based on counts on the states on map view |
| Description | User can click on counts on the map to view the request details by the end users |

|  |  |
| --- | --- |
| ID | Count\_2 |
| Test Input | No Data input |
| Expected Output | Count view with the correct details of the request information and to validate with the count on the maps view |
| Description | User can click on counts on the map to view the request details by the end users |