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**Test Plan**

**CHHS Prototype Development**

Version No: 0.1

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| **Revision History of Test Plan** | | | | | | |
| Version | Description/Change | Prepared/Modified By | Reviewed by | Date of review | Approved By | Approved Date |
| 0.1 | Initial Draft | Vivek Kumar Mishra | Amit Sikka | 27-May-2016 |  |  |
| 1.0 | Final | Vivek Kumar Mishra |  |  | Amit Sikka | 30-May-2016 |

# Test Plan

## Introduction

The Purpose of this Document is to plan all the activities for performing the Testing for CHHS project. These activities cover only the management plan for Testing. The engineering activities (Test scripts) pertaining to Testing shall be covered in the Unit/System Test Case document.

This plan shall act as input to the Unit/System Test Case preparation

# Reference Artifacts

| S. No | Artifacts | Remarks |
| --- | --- | --- |
| 1 | Business Requirements Document | Ver no. 1.0, Release date 27-May-2016 |
| 2 | Information Architecture Document | Ver no. 0.1 , Release date 25-May-2016 |
| 3 | Visual Design Document | Ver no. 0.1, Release date 27-May-2016 |

# Scope

The testing intends to validate the user requirements and technical requirements as defined in the BRD *BRD\_CHHS-Prototype V1 0 doc*. AgreeYa Testing team will ensure that each Module/Functionality of the application meets the functional requirement of the business as defined in the BRD, and it does not contain any defect, which leads to instability of the application. By considering the objective of the application and going through the requirements, we propose following approach for testing.

Testing in CHHS project is broadly divided into following types:

(1) Functional Testing

(2) Non-Functional Testing

This plan covers the following major components:

* Testing coverage
* Testing methodology
* Testing cycle
* Deliverables (Internal and External)
* Responsibilities
* Assumptions, Constraints and Dependencies

# Testing Coverage

A) Unit Testing

i) Functions/Components to be tested:

| S. No | Functions/Components | Brief Description |
| --- | --- | --- |
| 1 | Foster family profile registration workflows | To verify about the new foster family registration on portal. |
| 2 | Foster family agency registration workflows | To verify about the new foster family agency registration on portal. |
| 3 | Foster Child care management | To Verify eligibility conditions for children and parents. |
| 4 | Verification of Page layouts | Verification of Homepage, Foster family profile registration page, Foster agency profile registration, Manage Profile for child and parent, Agency lookup page. |

ii) Functions/Components not to be tested:

| S. No | Functions/Components | Brief Description |
| --- | --- | --- |
| 1 | NA |  |

B) System Testing

i) Functions/Components to be tested:

| S. No | Functions/Components | Brief Description |
| --- | --- | --- |
| A) | **Functional Features** |  |
| 1. | Create/Establish Profile | * To check Eligibility Criteria * To provide Account Detail * To provide Personal Detail * To provide Family Narrative & Preferences * To provide Licensing and agency detail |
| 2. | Login over the portal | To able to login on portal using their credential and lands on the login screen |
| 3. | Look up for residential facility | Verify the list of record for available facility in the provided zip code |
| 4. | Look up for Agency Location | Verify the list of record for available agency in the provided zip code |
| B) | **Non-Functional Features** |  |
|  | Usability Testing | Cross browser and cross devices testing |
|  | Compatibility Testing | Cross browser and cross devices testing |
|  | Single User page load Response time testing | To verify page load time for the newly developed pages |

ii) Functions/Components not to be tested:

| S. No | Functions/Components | Brief Description |
| --- | --- | --- |
| 1 | NA |  |

# Methodology

Manual Testing (Functional) methodology will be followed during testing.

1. For Test case creation and test cases execution Excel Sheet will be used.

2. For Defect Tracking, Redmine will be used.

We will be testing in sprints of 2 weeks’ duration and a big bang testing will be done at the end when entire application is available to test.

We will be doing the build verification during each sprint on desktop and devices (android/iOS mobile and tablet). We will be doing a full regression test after the complete application is integrated.

# Testing cycle (ETVX)

**A. Unit Testing**

**Entry criteria:**

1) Baselined Business Requirements document exists.

2) Baselined Architecture document exists.

3) Reviewed Unit Test Cases exist.

4) Unit testing environment is available.

5) Code walkthrough has been performed, and defects are closed.

**Tasks to be executed:**

1) Unit testing is performed as per the reviewed Unit Test Cases.

2) The test results are recorded in the testing report.

3) The critical and high severity defects are fixed and tracked to closure.

4) All medium and low severity defects published, if not closed.

5) Regression testing is carried out subsequent to all bug fixes.

6) Defect root cause analysis is performed for all ‘High’ category Defects.

**Verification:**

1) Test Results along with failed test cases reports will be verified

**Exit criteria:**

The application has been Unit tested, and all high severity and critical defects have been tracked to closure.

**B. System Testing**

**Entry criteria:**

1) Baselined Business Requirements document exists.

2) Unit testing have been performed.

3) Critical & High Severity defects have been closed (during UT).

4) Stable build is available in test environment.

5) Reviewed System Test Cases exist.

6) System testing environment is available with build deployed.

**Tasks to be executed:**

1) System testing is performed as per the reviewed System Test Cases.

2) The test results are recorded in the testing report.

4) The testing defects are fixed, and tracked to closure.

5) Regression testing is carried out subsequent to all bug fixes.

6) 7) Phase-end review of testing phase is performed.

**Verification:**

1) Test Results along with failed test cases reports will be verified

**Exit criteria:**

The application has been System tested, and at least all Critical & High Severity defects have been closed.

# Suspension Criteria

Suspension criteria specify the criteria to be used to suspend all or a portion of the testing activities:

* When a Critical severity bugs i.e. ***Severity 1*** is introduced that cannot allow any further testing.
* Assigned test resources are not available when needed by the test team.

# Major Responsibilities

| S. No | Role/Function | Responsibility |
| --- | --- | --- |
| 1 | Scrum Master / Product Owner | Responsible for review and signoff of test plan, test cases and test results |
| 2 | System Tester | Responsible for   * Writing System test cases * Performing an Independent System Testing (Manual & Automation) |

# Testing Environment

| S. No | Environmental Needs | Specification |
| --- | --- | --- |
| 1 | Windows 7, Mac 10.10.5, IE , Chrome, Safari & Firefox – Latest version, Android , iOS- latest version | For Cross Browser testing |
| 2 | Android (Tablet and mobile phone),  iOS (iPhone and iPad) | Cross devices testing |

# Interfaces

NA

# Deliverables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deliverable** | **Media (Whether paper / electronic)** | **Quantity (No. of copies to be delivered)** | **Responsibility** | **Type (Internal/External)** | **Planned date (original) of delivery** |
| Unit Test cases | Electronic | 1 | Dev Team | Internal |  |
| System Test cases | Electronic | 1 | Test team | Internal |  |
| Test Summary Report | Electronic | 1 | Test Team | Internal |  |

# Customer Validation plan

Product Owner wil provide sign-off for this phase. Test team will support product owner in performing this Validation activity. (in either System Test or UAT environment)

# Assumptions, Constraints and Dependencies

**Assumptions:**

* We are assuming that builds will be released for System Testing as per the Plan. Any changes in the code release to testing environment will affect overall schedule of testing.
* We are assuming that the needed software (browsers etc.) / hardware (devices) is made available before start of system testing.

**Constraints:**

* NA

**Dependencies:**

* System testing is totally dependent upon the code release to testing team hence any delay in release of code to our test environment will affect the testing.
* Similarly, we also depend on development team for defect fixing, hence any delay in fixing will affect Retesting schedule.
* Timely signoff of test plan and system test cases.