IMPETUS

EETeamJ1

QA Test Plan

Version: 1.0

Revision History

Date	Version	Description	Author
20/09/2015	1.0	Original Draft	Saurabh Solanki
29/11/2015	1.1	Updated Test Scope	Saurabh Solanki

1. Introduction

The document is a high-level overview outlining the test planning for the case study project assignment to be taken up by ***EE Team J1*** group. The objective is to set the test strategy for the particular product releases. This broadly describes the objective, testing scope, testing type, Entry & Exit criteria details in order to deliver adequate quality product.

1.1 Document Objectives

- Define the general strategy and approach that will be incorporated to test the software and evaluate the test results.
- Define the top-level plan that will be used to govern and direct detailed testing for the following test types: Functional, System Integration, Regression and User Acceptance.
- Unit testing be covered as the development activity.
- Provide visibility to stakeholders that adequate consideration has been given to the various aspects of testing, and where appropriate have the stakeholders approve the plan.
- Identify the test environment required for each phase.
- Identify the deliverables that should be targeted by the test phases.
- Identify the modification for and the ideas behind the test areas to be covered.
- Outline the test approach that will be used.

2. Test Strategy

Below identification table helps to identify what are different types of testing should be performed for the release.

Type of verification	Description	Applicable
Sanity/Smoke testing	Essential to perform before starting full-blown testing	Y
Functional testing	Addition of new feature as well as impacted areas of application to be covered while testing in integrated environment	Y
Performance testing	Essential to perform in order to make sure application performance should be as per the requirements.	N
Retest/Regression testing	Essential to perform in order to make sure that the defects are got fixed and other existing application behavior wouldn't be affected.	Y
Compatibility Testing	Verify that the system is compatible with the defined browsers, operating systems, databases.	Y
System Testing	System will be tested once all the modules are integrated	Y

Automation testing	Essential to perform in order to make sure all automated Scripts are running. These are Selenium Web driver functional Test cases.	N

Apart from the above rounds in case of immediate or urgent UAT release only the major bugs like blockers and critical be tested.

4. Test Scope

ServicePlatform is a customizable off-the-shelf horizontal solution to provide required software infrastructure to take care of complete lifecycle of a service request in the context of Field Service Management. This solution covers all aspects of system right from customer to field professional.

Develop a Field Service Management solution for enterprise users (Administrator, Manager, Supervisor, Customer Executive, Field Worker and Customer). This solution would be client-server (SAAS) solution and should allow multi-tenancy and should be hosted on cloud.
The goal of solution is to provide technical backbone/automation for enterprises field service need.

4.1 Feature to be covered

1. Template for Service Aggregator Registrations
2. Dashboard Creation
3. Report Generation
4. Zipped and Download Template Functionality
5. Militancy Support
6. Profile Creation and Responsive with mobile
7. Admin Portal Creation
8. Web services for Aggregator Registration

NOTE: Below are features which are considered out of scope-

a. Service Provider App
b. Fields Professional App
c. Customer App

5. Test assumptions

- Test environment is available.
- User stories, Acceptance Criteria is clearly mentioned to avoid disparity between Test Cases and actually developed functionality.
- Exploratory Testing would be carried out once the build is ready for testing.
- Performance testing will not be considered for this estimation.
- All the defects would come along with snapshot.
- Test case design activities will be performed by QA.
- Test environment and preparation activities will be owned by Dev Team.
- Dev team will provide Defect fix plans based on the Defect meetings during each cycle to plan. The same will be informed to Test team prior to start of Defect fix cycles.
- There is no environment downtime during test due to outages or defect fixes.
- The system will be treated as a black box; if the information shows correctly online and in the reports, it will be assumed that the database is working properly.
- Automation Testing will start only when QA environment is in stable state. (No Blocker, Critical, Major bugs is in open state).

6. Risk & Mitigation

Risks	Mitigation
Application delivery to QA may delay due to major defects found during integration testing or any other requirement changes this may impact the schedule.	User Story, Acceptance Criteria should be updated about any changes in schedule delivery of the application well in advance.
If User Stories / Acceptance Criteria on which test cases will be based are not clearly defined. This may result in too many defects and conflict with development team.	Any dispute in defect resolution will be sorted out in a meeting with Lead.
Delayed Testing Due to new Issues in Sprint related to any specific user story.	During testing, there is a good chance that some “new” defects may be identified and may become an issue that will take time to resolve. There are defects that can be raised during testing **because of unclear document specification**. These defects can yield to an issue that will need time to be resolved. If these issues become showstoppers, it will greatly impact on the overall project schedule. If new defects are discovered, the defect management and issue management procedures are in place to immediately provide a resolution.

7. Entry & Exit Criteria

Entry and exit criteria are flexible benchmarks. If they are not met, the test team will assess the risk, identify mitigation actions and provide a recommendation. All this is input to the project manager for a final “go-no go” decision.

❖ **Entry criteria of release**

Items	Criteria
Document	✓ Requirements are finalized and approved ✓ Functional Specification ✓ Design document ✓ Approved test approach document
Test case	✓ All expected results are documented with the User Stories ✓ Execution result of Unit test cases from development ✓ QA Test data and checklist completed

❖ **Exit criteria of release**

Items	Criteria
Product management	✓ High priority & severity bug review as per the need.
Test completion	✓ 100% Test Cases executed. ✓ Defect verification completion(All Fixed issues are verified and closed) ✓ All remaining defects are either cancelled or documented as Change Requests for a future release ✓ No Critical / Major bugs should be in New /Open / Fixed state. ✓ Bugs with Status as ‘No Fix Needed’ & ‘More Information Required ‘should be closed.