*schaumburg marketplace*

Test Plan

Version *- Draft 11/13/2018*

VERSION HISTORY

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# **Introduction**

## **Purpose of the Test Plan Document**

The Test Plan document, documents and tracks the necessary information required to effectively define the approach to be used in testing of the “Schaumburg Marketplace” project. This document will define the scope, approach, types and Phases of testing and entry / exit criteria from each phase of the testing, Risks & Assumptions, Roles and Responsibilities of stakeholders during the Testing lifecycle of this project.

# **Scope of Testing**

The scope of this Testing project is the modules of “Schaumburg Marketplace” as defined below :

## **In-Scope :**

The below modules are considered in-scope of testing for this project :

* Services
  + News
  + Marketing Materials
  + Classified
  + Local Community
  + Discussion Forums
  + Watch and Learn
* Business Directory
* About US
  + Our Team
  + Contact Us
  + FAQ

## **Out of Scope :**

The items not listed in the ‘In-Scope’ section are to be considered out of scope for this testing project.

# **Testing Methodology to be followed**

The Testing project will be executed in Agile-Scrum methodology. The team will follow Scrum ceremonies as defined below :

* Sprint Planning Meeting
* Daily Scrum
* Sprint Review Meeting (Sprint Demo)
* Sprint Retrospective Meeting

# **Types of Testing in scope**

## **In-Scope :**

Functional Testing – Manual

Functional Testing – Automation

## **Out of Scope :**

All Non-Functional Testing are out of scope for this testing project. Examples of non-functional testing are given below :

* + - Performance Testing
    - Load / Stress Testing
    - Security Testing
    - User Experience Testing

# **Testing Approach**

Testing will be done in Sprint mode with 1 week Sprint. Before the beginning of Sprint 1, the team (Scrum Team and Product owner) will create a Release backlog and prioritize user stories. The team will Size the user stories and create Sprint 1 backlog. Before beginning of each Sprint, the sprint backlog needs to be finalized and frozen.

## **Detailed Approach :**

The Sprint testing will be done manually based on the test cases created by testing team , as per the acceptance criteria defined in user stories. Testing team will write test cases for the first 2 days of Sprint and will do test execution on next 2 days. The last day of the sprint will be for defect retesting , Sprint Demo and Sprint retro meeting.

The Hardening Sprint will be used to test the functionality and defects tested during first two sprint to ensure that the defect fixed did not break any of the previously tested functionality.

The 3rd Sprint will be used to test remaining functionality for this release. The final sprint will be regression sprint where all the functionalities in scope, will be retested to ensure that the application is working as per requirements.

## **Automation Approach:**

The automation of functional testing will be done in N+1 sprint. The automation engineer from scrum team will automate the functionality in next sprint. For Ex. Features tested manually in Sprint 1 will be automated in Sprint 2. The automated scripts will be used during the regression sprint to ensure complete coverage in given timeline.

## **Daily Standup :**

Team will have a daily stand up call of 15 minutes and each member of the team will highlight 3 points as mentioned below :

What I did yesterday

What I will do today

Any impediments / roadblocks

The team will not spend time during stand up meeting in solutioning any issues. The solutioning will be done outside of stand up meeting between individuals of the team.

## **Defect handling :**

The defect will be retested and closed in the same sprint. Any open defects at the end of the sprint and its related user story will be moved back to the product backlog and will be taken up in upcoming sprint based on priority.

## **Sprint Review (Sprint Demo) :**

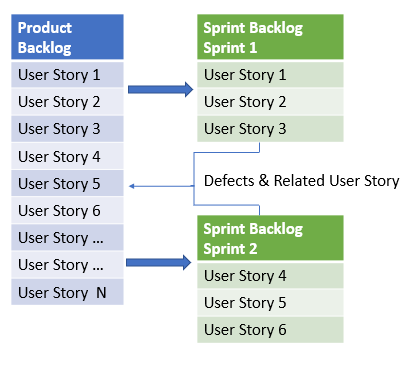
At the end of each sprint, a demo of functionality delivered in that sprint, will be give to product owner. The sprint will be considered close after product owner approves the product (functionality) delivered in that sprint. In case product owner rejects a product (functionality) then a new story with the required changes will be created and added to release backlog. The newly created stories will be take in upcoming sprint based on the priority.

## **Story Grooming and Sizing :**

Story grooming will be done in the mode of n-1 sprint. Which means, the story for Sprint 1 will be groomed in Sprint 0 and so forth. The story sizing will be done as story point using Fibonacci series (Ex : 1,2,3,5,8).

## **Sprint Retrospection :**

Sprint retrospection meeting will be held on the last day of each sprint and the scrum team will highlight ‘what went well’ and ‘what needs improvement’. Team will take action on items that needs improvement to ensure that the upcoming sprints do not repeat the same errors and ensure process improvement.



# **Release Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sprint1 | Sprint2 | Sprint3 Hardening Sprint | Sprint4 | Sprint5 Regression Sprint |
| 11/19/2018 | 11/26/2018 | 12/3/2018 | 12/10/2018 | 12/17/2018 |

# **Tools Used**

* JIRA - Requirement and defect management tool to use to create a user story, log defect.
* MS-Excel - This is Microsoft tool which will be used to create the test cases, test steps and to track the test execution result.
* MS-Word - This Microsoft tool which will be used to create the test plan and other document.
* Selenium – Open source test automation tool that lets the automation engineer create automation scripts in various languages, such as Java, Pearl, Python etc.

# **Test Data Approach**

The testing team will be generating test data as part of sprint testing. Also will be using existing production data from the website depending on test cases.

# **Deliverables**

Below deliverables will be produced by testing team during the project life cycle :

* Test Plan, Test Cases, Automation Script, Defect Log, Test Summary Report

# **Risks and Assumptions**

**Risks and Mitigation Plans**

|  |  |  |
| --- | --- | --- |
| **Sl.No** | **Risk** | **Mitigation** |
| 1 | Delay in defect turnaround time causing delay in defect retest in same sprint. | Any open defects at the end of the sprint will be moved to next sprint based on the priority. Any open defect at the end of final sprint will be deferred based on approval from product owner. |
| 2 | Risk of not being able to execute all the test cases during regression sprint due to any issues such related to – Environment, defect turn around delays, team availability etc. | Testing team will be doing risk based testing – execute all high priority test cases first , followed by medium and low priority test cases based on available bandwidth and timeline. |
|  |  |  |

**Assumptions**

The testing will be done in production environment, on live website and the defects will be reported in JIRA.

The Development team will have access to JIRA and will be monitoring the defects on a daily basis. The defect fixes will be delivered back to scrum team at least 1 day before sprint end date, so testing team can retest and close the defect in same sprint.

All showstopper defects will be fixed in 1 day and turned it over to testing team for retest.

Testing team will be creating test data in production environment for testing purpose.

# **Stakeholders – Roles and Responsibilities**

Product Owner : Responsible for defining requirements , Defining user stories and acceptance criteria, prioritizing user stories, providing Sprint demo sing-off.

Scrum Master : Facilitate the scrum team, help with removing impediments., guide team on scrum process.

Development Team : To develop the application, do minimal level of unit testing, do defect fixes and defect assignments to testing team.

Testing Team : To test application, log defects and track them to closure, provide testing progress reports to stakeholders.

# **Project Team :**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibility** |
| Tushar Patel | Product Owner | Define requirements, User stories and acceptance criteria. Approve sprint demo and final product. |
| TBD | Scrum Master | Facilitator and responsible for removing impediments and to ensure scrum process if followed by the team. |
| TBD | Developer | Responsible for coding , unite testing and defect fixing |
| Raksha Pandya | Tester | Create test plan, test cases, test data, do test execution and defect reporting |
| Nipa Shah | Tester | Create test plan, test cases, test data, do test execution and defect reporting |
| Rina Patel | Tester | Create test plan, test cases, test data, do test execution and defect reporting |
| Dharmik Thakkar | Tester | Create test plan, test cases, test data, do test execution and defect reporting |
| Bhoomi Patel | Tester | Create test plan, test cases, test data, do test execution and defect reporting |