**Test Plan**

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**Overview:**

As a part of projects ‘OpenCart’ is a web application where to test functionality of ‘<https://demo.opencart.com>’

This document serves as high level test planning documents with details on the scope of the projects.

**Scope:**

The scope of the projects includes testing the following features of ‘https://demo.opencart.com’ web application

**Inclusions:**

* Register
* Login & Logout
* Forget password
* Search
* Product compare
* Product display page
* Wish list
* Shopping cart
* Currencies
* Add to cart
* Home page
* Checkout page
* My Account page
* Order history page
* Download page
* Contact us page
* Menu option
* Footer option
* Category option

**Test Environment:**

* Windows 10 – Chrome, Firefox
* Mac OS – Safari Browser
* Android Mobile OS – Chrome
* IPhone Mobile OS – Safari

**Exclusions:**

* All the features expected that are mentioned under ’Inclusions’
* Any third-party features or payment gateways
* Test Automations

**Test Strategy:**

* **Step1:** Creation of test scenarios and test cases for the different features in scope
  + We will apply several test designing techniques while creating test cases
    - Equivalence class partition
    - Boundary value analysis
    - Decision table testing
    - Sate transition testing
    - Use case testing
  + We also use our expertise while creating test cases
    - Exploratory testing
    - Error guessing
  + We priorities the test cases
* **Step2:** Testing process
  + Firstly, perform **Smoke testing** to check whether the different and important functionality of the application are working
  + Reject the build, if smoke testing fails and wait for stable build
  + Receive the stable build, which pass smoke testing, we perform in depth testing using the test case created
  + Multiple test resources will be testing in same application
  + Then we report the bug in bug tracking tools and send dev, management. The defect found on that day in a status end of the day email
  + We perform below testing
    - Smoke & sanity testing
    - Regression and retesting
    - Usability testing, Functional & UI testing
  + We report test cycle until we get the quality products
* **Step3:** We follow the below best practice to make our testing better
  + Contest driven testing
  + Shift left testing
  + Exploratory testing
  + End to End testing

**Defect Reporting Procedure:** During the test execution

* Any deviation from expected behave by the application will be noted. If it can’t be reported as defect, it would be reported as an issue or posed as a question
* Any usability issue will be noted
* After recover the defect it will be retested to verify reproductivity of the defect and screenshot of the reproduce to0 be documented
* Everyday, at the end of the test execution, defects encountered will be sent along with the observations
* Defect, Test scenario & test case will be documented in a excel

**Role:**

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Person A | Test Manager | * Escalations |
| Person B | Test Lead | * Create the test plan and get the client signoffs * Interact with the application, create and execute the test cases * Report defects * Attend any meeting with clients * Submit daily issues update * Verify the validity of the defects being reported |
| Person C | Senior Test Engineer | * Interact with the applications * Create and execute the test cases * Report defects |
| Person D | Test Engineer | * Interact with the applications * Execute the test cases * Report defects |

**Test Schedule:**

|  |  |
| --- | --- |
| Time | Time Durations |
| Create test plan | Start date to end date |
| Test case creation | Start date to end date |
| Test case Execution | Start date to end date |
| Summary report submission | Date |

**Test Deliverables:**

|  |  |  |
| --- | --- | --- |
| Deliverables | Descriptions | Target completion date |
| Test plan | Details on the scope of the projects, test strategy, test schedule, resource requirements, test deliverables and schedule | Date |
| Functional test cases | Test case created for the scope defined | Date |
| Defects reports | Detailed description of the defects, identified along with screenshot, steps to reproduce on a daily basis | N/A |
| Summary reports | Bugs by b bugs, bugs by functional area, bugs by priority | Date |

**Pricing:** N/A

**Entry and Exit Criteria:** It happens for every phase of **STLC** cycle

* **Requirements Analysis:**
  + **Entry criteria:**
    - Receive the requirements doc about the project
  + **Exit criteria:**
    - List of requirements are understood by testing team
    - Doubts are cleared
* **Test planning:**
  + **Entry criteria:**
    - Testable requirements derived from the given requirements doc
    - Doubts are cleared
  + **Exit criteria**:
    - Test planed doc (include tests strategy) is signed-off by the client
* **Test designing:**
  + **Entry criteria:**
    - Test planed doc is signed-off by the client
  + **Exit criteria:**
    - Test scenario and test case doc are signed-off by the client
* **Test execution:**
  + **Entry criteria:**
    - Test scenario and test case doc are signed-off by the client
    - Application is read for testing
  + **Exit criteria:**
    - Test case reports, defects reports are ready
* **Test Closure:**
  + **Entry criteria:**
    - Test case reports, defects reports are ready
  + **Exit criteria:**
    - Test summary reports

**Suspension and Resumption Criteria:**

Based on the client decision, we will suspend and resume the project. We will ramp and ramp down the resources as per client needs

**Tools:**

* XYZ bug tracking tools
* Mind map tools
* Snipping screenshot tools
* Word and excel doc

**Risks and Mitigations** (means how to overcome to problems):

* Risks: Non-availability of a resource
* Mitigations: Backup resource planning
* Risks: Build URL is not working
* Mitigations: Resources will work on others task
* Risks: less time for testing
* Mitigations: Ramp up the resource based on the clients needs dynamically

**Approvals:**

Team will send different types of soc for client approval like

* Test plan
* Test scenario
* Test cases
* Reports

Testing will only continue to the next steps once these approve are done