**Test Plan And Test Strategy for-**

**EazyDiner website**

**By:Priyesh Jena**

**1.Introduction:**

EazyDiner is an online restaurant-booking and food ordering website. Apart from these service, the user also gets options to check for any upcoming events that would be hosted in the partnered restaurants in his/her city.The website also has an option for the restaurant vendors to register their restaurant with the website for live table booking monitoring through SaaS.Other features include Food trend blogs where the user can connect with Professional Food bloggers and discover new trends in the world of food and dining.

**2. Objective and scope:**

The main objective of this test plan is to identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

a)Scope:The scope of this test plan is restricted to functional testing where the orchard-minds manually test the various features and functionalities of the website such as login , signup, booking table and payment etc., and Automating those test cases and test scenarios throught selenium scripts.Security testing and performance testing is not considered in the scope.

b)Features not to be tested:These feature are not be tested because they are not included in the software requirement specs.

* User Interfaces
* Hardware Interfaces
* Software Interfaces
* Database logical
* Communications Interfaces
* Website Security and Performance

**3. Test strategy:**

**3.1.Test Types**

In this eazydiner.com website, there’re 3 types of testing should be conducted.

* **Integration Testing:** Individual software modules are combined and tested as a group. This is performed by developing team
* **System Testing:** Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements. This is performed by testing team.
* **API testing:** Test all the APIs create for the software under tested. This is performed by testing team.

**3.2.Risk and Issues**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Team member lack the required skills for website testing | Planning training course to skill up your members. |
| The project schedule is too tight; it's hard to complete this project on time | Set Test Priority for each of the test activity. |
| Test Manager has poor management skill | Planing leadership training for manager. |
| A lack of cooperation negatively affects your employees' productivity | Encourage each team member in his task, and inspire them to greater efforts. |
| Wrong budget estimate and cost overruns | Establish the scope before beginning work, pay a lot of attention to project planning and constantly track and measure the progress. |

**4. Test Step:**

The test steps derived from some possible scenarios:

* Access The webpage
* Login and signup
* Navigating through the site
* Food order
* Table booking

**5. Test Resource :**

**5.1 System Resource**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **Resource** | **Description** |
| 1 | Server | Need a Database server which install MySQL server Web server which install Apache Server |
| 2 | Test Tool | Develop a Test tool which can auto generate the test result to the pre-defined form and automated test execution |
| 3 | Network | Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s |
| 4 | Computer | At least 4 computer run Windows 7, Ram 2GB, CPU 3.4GHZ |

**6.2 Human Resource**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **Role** | **Responsibilities** |
| **1** | **Test Manager** | * Manage the whole project * Define project directions * Acquire appropriate resources * Reviews the content of the Test Plan, Test Strategy and Test Estimates signs off on it. |
| **2** | **Test Lead** | * Ensure entrance criteria are used as input before start the execution. * Develop test plan and the guidelines to create test conditions, test cases, expected results and execution scripts. * Provide guidelines on how to manage defects. * Attend status meetings in person or via the conference call line. |
| **3** | **Test Team** | * Develop test conditions, test cases, expected results, and execution scripts. * Perform execution and validation. * Identify, document and prioritize defects according to the guidance provided by the Test lead. * Re-test after software modifications have been made according to the schedule. * Prepare testing metrics and provide regular status. |
| **4** | **SQA members** | * Take in charge of quality assurance * Check to confirm whether the testing process is meeting specified requirements |

**6.Test Criteria:**

**6.1. Entry Criteria**

* + The whole source code must be unit tested H/W and S/W should be in place
  + Testing team have completely understood the requirements
  + Testing team have sound knowledge of functionality in Reports
  + Reviewed test scenarios, test cases and RTM.

**6.2. Exit Criteria**

Specifies the criteria that denote a successful completion of a test phase

* No defects over a period of time or less testing efforts
* All the high priority/severity test cases has been executed
* Deliverables are ready
* High severity/ priority bugs are fixed
* Run rate is mandatory to be 100% unless a clear reason is given.
* Pass rate is 80%, achieving the pass rate is mandatory.

**7.Schedule :**

**7.1 Project task and estimation**

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Estimate effort** |
| Create the test specification | Test Designer | 20man-hour |
| Perform Test Execution | Tester, Test Administrator | 22man-hour |
| Test Report | Tester | 8man-hour |
| Test Delivery |  | 10man-hour |
| **Total** |  | **60man-hour** |

**7.2 Schedule to complete these tasks**

|  |  |  |
| --- | --- | --- |
| **Task name** | **Start date** | **End date** |
| Create the test specification | 15/11/2021 | 17/11/2021 |
| Perform Test Execution | 17/11/2021 | 19/11/2021 |
| Test Report | 19/11/2021 | 20/11/2021 |
| Test Delivery | 20/11/2021 | 21/11/2021 |

**7.Test case design and development :**

**7.1. Understanding Requirements:**Requirement to be sent by the client.Understanding of requirements to be done by QA along with Respective lead and developer and queries are raised if any.

**7.2. Preparing Test Cases:** Testers will be preparing test cases based on the requirement criteria provided by the client. This will cover all scenarios for the requirements based on the epic and user criteria.

**7.3. Preparing RTM:** Testers will be preparing test matrix which maps test cases to respective requirement. This will ensure the coverage for requirements.

* 1. **Creating Test Data:**

Test data will be created by respective Testers on client's developments/test site based on scenarios and Test cases.The RTM, and EPIC can be referred at this stage as well.

* 1. **Executing Test Cases:**
  + Test cases will be executed by respective Testers on client's development/test site based on designed scenarios, test cases and Test data manually first then through automated scripts.
  + Test result (Actual Result, Pass/Fail) will updated in test case document.
  1. **Defect Logging and Reporting:**

Tester will be logging the defect/bugs in Bugzilla bug tracking tool found during execution of test cases and will assigned the Bug id generated by Bugzilla to respective test cases document. After this, Tester will inform respective developer about the defect/bugs.

**8.Deliverables:**

* Before testing  
  -Test Plan   
  -Test Design
* During testing:  
  -Test scripts  
  -Test Data
* After testing:

Documentation on Test results, defect reports, release notes.