**Test Plan Template**

**HackThisSite**

**Prepared by:**

Krati Patni

Kunal Bhapkar

Praddyumn Wadekar

Date: /12/2020

**TABLE OF CONTENTS**

1.0 Introduction

2.0 Objectives and Tasks

2.1 Objectives

2.2 Tasks

3.0 Scope

4.0 Testing Strategy

4.1 Alpha Testing (Unit Testing)

4.2 System and Integration Testing

4.3 Performance and Stress Testing

4.4 User Acceptance Testing

4.5 Automated Regression Testing

4.6 Beta Testing

4.7 Compatibility Testing

5.0 Hardware / Software Requirements

6.0 Test Schedule

7.0 Features to Be Tested

8.0 Resources/Roles & Responsibilities

**1.0 INTRODUCTION**

Web application is the modern form of distributed application. There are many exciting aspects of web application but also difficult to understand due to limited features available in different browsers. One of most important aspect of web development is platform independence. Web applications consist of three pillars. First pillar is presentation layer; second pillar is server-side programming and third is database. In web-based application development, the selection of server-side programming technology and database management system is crucial. Selection of both Technologies should be based on the requirements of the proposed application.

The “Hack This site” website is a website that provides a platform for those who are new to hacking. Here they can test their knowledge and practise on this website. User can use this website for testing as well as for hacking practise by registering them on website. They give some mission to learn the new things.

**2.0 OBJECTIVES AND TASKS**

**2.1 Objectives of Test Plan**

The objective of the test suite is to provide adequate coverage metrics, unit testing, system testing, regression testing, performance testing, user acceptance, beta testing.

**2.2 Tasks of Test Plan**

* **Testing:**
  + Enter credentials for register page.
  + Page navigation for Tor Onion, Discord, Forum, Crypto-paste
  + Login Functionality
  + Forget Password
  + Registration using CAPTCHA
  + Forget username using CAPTCHA
  + Checking Title of the Webpage
  + Navigating through advertisement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **#Business Requirements**  **(BR)** | **#Functional Requirements**  **(FR)** | **#Test Scenarios (TS)** | **#Testing Approaches /Strategies**  **(TA)** |
| 01 | Website should be interactive | Simple and easy to use. | Module-1 | Selenium Web Driver |
| 02 | Make system more feasible and easier to use. | Navigation between pages. | Module-II |
| 03 | User Registration | Website shall provide interactive signup page and collect the information from user. | User information |
| 04 | To allow to forget username and password. | Website should provide accurate results | Login |

**3.0 SCOPE**

**General**

This project is to test or check whether the login and registration process is working correctly. It tests the title, login credential, forgot password, forgot username, advertisement page, various navigation like Tor onion, Discord etc., username, password,email id, CAPTCHA, and checks whether it is accessible to the website or not.

**4.0 TESTING STRATEGY**

The main objective of the “HackThisSite” is that it helps new hacking enthusiasts to learn the hacking on the hacking environment. It provides an environment where a new learner can learn the new skills by applying their knowledge. It also provides the login and registration functionality to register the user on their website to see their progress. The system handles all the operations and generates reports as soon as the test is completed.

The main objective of the Hack This Website is that it help user to learn the hacking skills directly by the doing it on live site.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Approach** | **Type of Testing** | **Manual Testing** | **Automated Testing** | **Tools/APIs/Libraries** |
| Standard Testing  (Functional Testing) | Unit Testing | Yes | Yes | Selenium WebDriver/IDE (web application automation testing framework) |
| Integration Testing | Yes | yes |
| System Testing | Yes | Yes |
| Regression Testing | No | Yes |
| Acceptance Testing | No | No |
| Security Testing |  |  |
| - |
| - |

**4.1 Unit Testing**

**Definition:**

Unit testing is a software testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use. Intuitively, one can view a unit as the smallest testable part of an application.

**Participants:** Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:**

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** | Test for navigation links |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST UNIT/CLASS** | **TEST CASE** | **PRE-CONDITION** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** | **POST CONDITION** | **ACTUAL RESULT** | **STATUS**  **(PASS/FAIL)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** | Login Functionality |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST UNIT/CLASS** | **TEST CASE** | **PRE-CONDITION** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** | **POST CONDITION** | **ACTUAL RESULT** | **STATUS**  **(PASS/FAIL)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** | Registration with CAPTCHA |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST UNIT/CLASS** | **TEST CASE** | **PRE-CONDITION** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** | **POST CONDITION** | **ACTUAL RESULT** | **STATUS**  **(PASS/FAIL)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** | Forget username with CAPTCHA |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST UNIT/CLASS** | **TEST CASE** | **PRE-CONDITION** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** | **POST CONDITION** | **ACTUAL RESULT** | **STATUS**  **(PASS/FAIL)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** | Forget Password |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST UNIT/CLASS** | **TEST CASE** | **PRE-CONDITION** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** | **POST CONDITION** | **ACTUAL RESULT** | **STATUS**  **(PASS/FAIL)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**4.2 System and Integration Testing**

**Definition:** System testing means testing the system. All the modules/components are integrated to verify if the system works as expected or not. System testing is done after integration testing. This plays a significant role in delivering a high-quality product.

**Participants:**

Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:**

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** |  |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST UNIT/CLASS** | **TEST CASE** | **PRE-CONDITION** | **TEST STEPS** | **TEST DATA** | **EXPECTED RESULT** | **POST CONDITION** | **ACTUAL RESULT** | **STATUS**  **(PASS/FAIL)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**4.3 Performance and Stress Testing**

**Definition:**

Performance Testing is executed to provide accurate information on the readiness of an application through testing the web site and monitoring the server-side application. This is done by simulating load as close as possible to the real conditions to evaluate if the application will support the expected load. That allows you to guarantee system performances and to identify and help in fixing issues identifying, bottlenecks and providing useful advice about how to fix problems.

**Participants:**

Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:**

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** |  |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

**4.4 User Acceptance Testing**

**Definition:**

The purpose of acceptance test is to confirm that the system is ready for operational use. During acceptance test, end-users (customers) of the system compare the system to its initial requirements.

**Participants:**

Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:**

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** |  |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

**4.5 Automated Regression Testing**

**Definition:**

Regression testing is the selective retesting of a system or component to verify that

modifications have not caused unintended effects and that the system or component still works as specified in the requirements.

**Participants:**

Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:**

|  |  |
| --- | --- |
| **MODULE/FUNCTIONALITY NAME:** |  |
| **UNIT/CLASS:** | HackThisWebsite |
| **CREATED BY:** | Praddyumn Wadekar, Krati Patni and Kunal Bhapkar |
| **DATE OF CREATION:** | 22-12-2020 |
| **DATE OF REVIEW:** | 29-12-2020 |

**4.6 Beta Testing**

**Participants:**

Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:** A beta test is the second phase of software testing in which a sampling of the intended audience tries the product out.

**4.7 Compatibility Testing:**

**Definition:** Compatibility Testing is a type of Software testing to check whether your software can run on different hardware, operating systems, applications, network environments or Mobile devices

**Participants:**

Praddyumn Wadekar, Krati Patni and Kunal Bhapkar

**Methodology:**

**5.0 HARDWARE / SOFTWARE REQUIREMENTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Hardware Specification**  **(Processor/Clock Speed/RAM)** | **Operating System** | **Browsing Application** | **Interactive Testing**  **(PASS/FAIL)** |
| 1 | 1.6 GHz Intel Core i5 | Windows 10 | Chrome | Pass |
| 2 | Intel Core i3 | Ubuntu | Mozilla Firefox | Pass |

**6.0 TEST SCHEDULE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task Name** | **Start Date** | **Finish Date** | **Effort Estimation** |
| Test Planning | 5/12/2020 | 10/12/2020 | 6 days |
| Review Requirements documents | 11/12/2020 | 11/12/2020 | 1 day |
| Create initial test estimates | 12/12/2020 | 13/12/2020 | 2 days |
| First deploy to QA test environment | 14/12/2020 | 15/12/2020 | 2 days |
| Functional testing – Register | 16/12/2020 | 17/12/2020 | 2 days |
| Register deploys to QA test environment | 18/12/2020 | 19/12/2020 | 2 days |
| Functional testing – login | 20/12/2020 | 21/12/2020 | 2 days |
| System testing | 22/12/2020 | 22/12/2020 | 1 day |
| Regression testing | 23/12/2020 | 23/12/2020 | 1 day |
| User Acceptance Testing | 24/12/2020 | 24/12/2020 | 1 day |
| Resolution of final defects and final build testing | 25/12/2020 | 25/12/2020 | 1 day |
| Report Generation | 26/12/2020 | 29/12/2020 | 3 days |

**7.0 FEATURES TO BE TESTED**

* Test the Navigation functionality for various links provided on the website
* Test the Login Functionality
* Test the Registration Registration with CAPTCHA
* Test the Forget username with CAPTCHA
* Forget Password

**9.0 RESOURCES/ROLES & RESPONSIBILITIES**

Team member details and work distribution

|  |  |  |
| --- | --- | --- |
| Sr No | Name | Roles and Responsibility |
| 1 | Kunal Bhapkar | Responsible for Project schedules and the overall success of the project. |
| 2 | Praddyumn Wadekar | Serve as a primary contact/liaison between the development and project team. |
| 3 | Krati Patni | Ensure the overall success of the test cycles. She will coordinate weekly meetings and will communicate the testing status to the project team. |