TEST PLAN REPORT

NAME: Nbyula

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**PRODUCT DESCRIPTION:**

Nbyula is a technology brand, whose main aim is to build a global digital technology ecosystem for international studies and work. It strives for bringing trust and transparency to this field. This all is possible by massive data gathering and contribution from international alumies.

Nbyula website is built using following technologies/frameworks:

1>React js

2>Node js

3>Express

4>Tailwind

**TEST STRATEGY:**

There are two types of test that will be performed on this website:

1>Manual Testing:

This test will be done by expirienced individuals to detect any kind of errors or bugs in the site before it goes live and served to the end users. Black box testing and white box tesing comes under this category.

2> Automation Testing:

In automation testing we will use certain tools and testcases to make sure that the site is error or bug free for smooth custome expirience.

Tools used in Automation testing will be:

1>Robot framework

2>Selenium

3>Burpsuite

Burpsuite is a tool used by security researchers for pentesting of web applications.

This tool will be used by security analyst for testing the website against various flaws that might exist in the website.

**Tool Description:**

Robot framework:

**Robot Framework** is an open source test automation framework for acceptance testing and acceptance test-driven development. It follows different test case styles – keyword-driven, behaviour-driven and data-driven for writing test cases. This feature makes it very easy to understand. Test cases are written using keyword style in a tabular format. Robot Framework provides good support for external libraries, tools that are open source and can be used for automation. The most popular library used with Robot Framework is Selenium Library used for web development & UI testing.

Selenium Framework:

Selenium is the biggest open source automation testing suite that is widely used by many major companies like Google, netflix etc. Using selenium with Robot framework will make the work seamless.

Defining Objective:

The main objective of testing is to make sure the website that is served to the end users are completely error and bug free and make sure that every element of website is worrking properly.The project should focus on testing functionalities like connections, posts, booking skylifts etc.

1>The elements of the website is loading properly.

2>The servers are responding as expected.

3>Check against any vulnerabilities and bugs

4> All the links are working properly in website

5> checking the performance of the website such as checking whether the things are reflected as soon as they are changed

6> Tesing the api, for different types of bugs

**ROLES AND RESPONSIBILITIES:**

1.Test Manager – Manage the whole project, define project directions

2.Tester- Identifying and describing appropriate test techniques, Execute tests, Log results

3.Developer in Test – Implement the test cases,test program, test suite

**ESTABLISH TEST CRITERIA:**

We define two types of criteria based on the results we get during the test:

Suspension Criteria:

While testing our marketplace/website if we get error and only 40% of our test cases pass then we will have to suspend the tesing and let the developers fix the bugs by giving them the report of bugs.

Exit Crtiteria:

While testing our marketplace and running tests , if we see that our 80 percent of the test cases are passed than according to governing standards the functionality is ok for public use . Although we should always try to achieve 100 percent test cases .

**SETUP OF TEST ENVIRONMENT:**

Since it is a website we must consider real devices like mobile phone, laptops, pc’s and not on emulator’s as this product is going to be live and this will give us a insight of every flaw, if it exists.

Devices can be:

1. Android/ios/windows based smartphones
2. Laptops
3. PC’s

**TEST SCHEDULE AND ESTIMATION:**

As the plan for launch of product is 6 months:

The time allocation for testing will be:

Since our marketplace needs to be roll out in 6 months , we have to distribute the tasks in segments where each required functionality can be tested in required time and with efficiency .

**TEST DELIVERABLES:**

Before testing phase:

* Test plans document.
* Test cases document.
* Test Desgin Specifications

During the testing

* Test tool Simulators
* Test Data
* Error and Execution Logs

After completion of testing cycles:

* Test Reports
* Defect Reports
* Installation guidelines
* Release notes