Test Planning

Analyze:-

A marketplace website is an information technology method in which dealers, businesses/distributors/marketers can sell products/services and the customer/user can purchase on that website electronically by using the internet on the mobile and computer. It means an marketplace website is an online shop. e means electronic, Commerce means business. Website means the group of HTML web pages that are produced to market/sell information/product/services.

Test Strategy:-

1. Testing Objective

The goal of the Marketplace project is to design, create and maintain a sustainable web-based platform providing a central access point to all needed tangible and intangible modelling components and making them available to the entire materials modelling community.

2. Efforts and Cost:-

The amount of efforts is going to be very high as a Marketplace website needs a lot of data. There are millions of products in the market which we have to gather and showcase on our website. The cost we are aiming to be lower than other marketplaces but better in use.

3. Scope of testing:-

The software is going to be tested in this testing. Marketplace website has nothing to do with hardware as it is all based on software and real data.

4. Risk and Issues:-

i) There might be a possibility that our website crashes in the middle of any order.
ii) There might be a possibility that our payment services crashes in the middle of any payment.
iii) The project should be done in a tight budget.

5. Type of testing:-

i) Unit test:- Test the smallest piece of verifiable software in the application.
ii) API testing:- Test the API created for the user.
iii) System test:- Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.
iv) Agile test:- Testing the system using Agile methodology.

Objectives:-

1. List of all softwares used:-
i) We will use Katalon Studio for testing our GUI. Katalon Studio is an all-in-one automation tool that has simplified Web UI, API, mobile, and desktop testing for over 850,000 teams and businesses.
ii) It also Support API test data setup using UI testing.
iii) We will use Microsoft unit testing framework for unit testing. Microsoft Unit Testing framework is a proprietary one which helps to perform testing in Visual Studio

Establish Test Criteria:-
i) Problem related to connectivity.
ii) Software not available.
iii) if 30% of the all the test cases failed then all testing will be postponed until developer fixed the bugs.
iv) if 70% of the test cases marked successful then software can be considered as public use.

Resource Allocation:-
There are 8(for example) testers in our team and the work is very extensive. The efforts we have to make is going to be very high.
The equipments needed to complete the testing of the project is Katalon Studio for GUI testing and API testing, Microsoft unit testing software for Unit testing, nTask Issue Tracker for Agile testing and DBUnit for integration testing.
The project will go into multiple testing methods for multiple times to make sure that not even a sigle bug will be there.
We needed an API for API testing and some licence of Katalon Studio.

Setup of Test Environment:-
The test environment should be real devices as those are the best when it comes to real life solutions. Real devices installed with real browsers and real operating systems. We can use Lambdatest software for real device testing as it provides all the features required in the real device testing with real operating system. We can use Real device cloud as this is an easy way to test our project on real device. We do not need any application or storage to store the data, we just have to upload it on cloud.

Test Schedule and Estimation:-
There are six months until the delivery of our product and we have 8 tester with us in our team. We have to divide the time and task to each and every person in our team. The task should be easy, hard, small, long. Working 5 days a week from 11 AM to 8 PM. Each of us will be getting

some deadlines according to the work given to us and a person atmost breach 3 deadlines, if you breach more than that there will be strict action against you.

By working 5 days a week with keeping national holidays in mind we can complete this project before its delivery. The daily task will be allocated to each one of us on a software called Jira and we have to login all our activities there.

Test Deliverables:-

Deliverables required before testing should be Test plan and Test Design to understand how we are going to execute our testing on product.

Deliverables required during testing should be Test scripts to understand which tests we have to perform on which section of the project, Test data, errors and execution logs.

Deliverables required after testing should be Test Results, Defect Reports. It is used to state what errors occured during testing and what developer has to change in the code.

Some Test Cases of a marketplace Website Errors:-

Verify is going to auto-scroll? If yes, then verify at what interval will the image be refreshed?
Verify does it delivers the same way in different browsers and different screen resolutions?
Verify different sort options have to be available based on products Brand, Price, Reviews/ratings, etc.
Verify images,price,specifications of the products/items
Verify the user is able to go with different payment options
Verify a user is getting Emails or Text confirmation with the order number generated.