

Project Design Phase-I

Testing Report

Team ID	PNT2022TMID31796
Project Name	Inventory Management system for retailers
Maximum Marks	2 Marks

TESTING

Test Cases

Sr.no	Test cases	Action	Steps	Input Data	Expected Result	Actual Result	Status
1	TC-1	User name	Enter user name	Input *xxx@yyy*	It should accepted user name	Valid user name	Pass
2	TC-2	Password	Enter password	Input*.....*	Valid password	Valid password	Pass
3	TC-3	Item Name	Select item name	-	Item name should be automatically reflected	Item name is automatically reflected	Pass
4	TC-4	Available item stock	Click on textbox	-	It should reflect automatically item stock	Item stock reflecting automatically	Pass
5	TC-5	Quantity	Enter item quantity	Input *50*	Item quantity should be accepted	Item quantity is accepting	Pass
6	TC-6	Mail transfer	Send a mail for retailers	-	Transfer mail for retailers	Mail transferred	Pass
7	TC-7	Db2	Click datas	-	View datas	View datas	Pass
8	TC-8	Item list	View list items	-	Receive items list	Receive items result	Pass
9	TC-9	Add item	Click on add item	-	It should be add item reflecting in database	Add item in a reflecting a database	Pass

8.2. SYSTEM TESTING

It is the process of exercising software with the intent of finding and ultimately correcting errors. This fundamental philosophy does not change for web applications, because web-based system and applications reside on network and inter-operate with many different operating systems, browsers, hardware platforms and communication protocols. Thus searching for errors is significant challenge for web applications.

Testing issues:

- Client GUI should be considered.
- Target environment and platform considerations
- Distributed database considerations
- Distributed processing consideration

Testing and Methodologies

System testing is the state of implementation, which is aimed at ensuring that the system works accurately and efficiently as expect before live operation, commences. It certifies that the whole set of programs hang together System testing requires a test plan, that consists of several key activities and steps for run program, string, system and user acceptance testing. The implementation of newly design package is important in adopting a successful new system.

Testing is important stage in software development. System test is implementation should be a confirmation that all is correct and an opportunity to show the users that the system works as they expected It accounts the largest percentage of technical effort in software development process.

Testing phase is the development phase that validates the code against the functional specifications. Testing is a vital to the achievement of the system goals. The objective of testing is to discover errors. To fulfill this objective a series of test step such as the unit test, integration test, validation and system test where planned and executed.

Unit testing

Here each program is tested individually so any error apply unit is debugged. The sample data are given for the unit testing. The unit test results are recorded for further references. During unit testing the functions of the program unit validation and the limitations are tested.

Unit testing is testing changes made in a existing or new program this test is carried out during the programming and each module is found to be working satisfactorily. For example, in the registration form after entering all the fields we click the submit button. When submit button is clicked, all the data in form are validated. Only after validation entries will be added to the database.

Unit testing comprises the set of tests performed by an individual prior to integration of the unit into large system. The situation is illustrated in as follows

Coding-> Debugging ->Unit testing -> Integration testing

The four categories of test that a programmer will typically perform on a program unit

- a. Functional test
- b. Performance test
- c. Stress Test
- d. Structure test

Functional test involve exercising the code with nominal input values for which the expected results are known as well as boundary values and special values.

Performance testing determines the amount of execution time spent in various parts of unit program through put and response time and device utilization by the program.

A variation of stress testing called sensitivity testing in same situations a very small range of data contained in a bound of valid data may cause extreme and even erroneous processing or profound performance degradation.

Structured testing is concerned with a exercising the internal logic of a program and traversing paths. Functional testing, stress testing performance testing are referred as “black box” testing and structure testing is referred as “white box” testing

Testing results

All the tests should be traceable to customer requirements the focus of testing will shift progressively from programs exhaustive testing is not possible To be more effective testing should be which has probability of finding errors

The following are the attributes of good test

- A good test has a probability of finding a errors
- A good test should be “best of breeds”
- A good test to neither simple nor too complex