

Software Test Plan

for

Motor Part Shop Software

By:

Abhishek Kalyan 12CS30001

M Srinivas Reddy 12CS30019

Introduction

The Software Test Plan (STP) is designed to prescribe the scope, approach, resources, and schedule of all testing activities. The plan must 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.

This Software Requirements Specification provides a complete description of all the functions and specifications of the **Motor Part Shop Software (MPSS)** developed for automating various activities of motor shop.

Objective

Testing software is an important part of the development life cycle of a software. It is an expensive activity. Hence, appropriate testing methods are necessary for ensuring the reliability of a program. According to the ANSI/IEEE 1059 standard, the definition of testing is the process of analyzing a software item, to detect the differences between existing and required conditions i.e. defects/errors/bugs and to evaluate the features of the software item.

Scope

Testing will be performed at several points in the life cycle as the product is constructed. Testing is a very 'dependent' activity. As a result, test planning is a continuing activity performed throughout the system development life cycle. Test plans must be developed for each level of product testing.

Purpose

The purpose of testing is to verify and validate a software and to find the defects present in a software. The purpose of finding those problems is to get them fixed

a. Verification

Verification is the checking or we can say the testing of software for consistency and conformance by evaluating the results against pre-specified requirements..

b. Validation

Validation looks at the systems correctness, i.e. the process of checking that what has been specified is what the user actually wanted.

c. Defect

Defect is a variance between the expected and actual result. The defect's ultimate source may be traced to a fault introduced in the specification, design, or development (coding) phases.

Black Box Approach

All Stakeholders

1.1.1 Description

Login

1.1.2 Input

Login id and Password are entered in the homepage

1.1.3 Output

If Username-Password match corresponding page is opened else "Invalid Login " is displayed .

Customer's Tasks

2.1.1 Description

New User Registry .

2.1.2 Input

Concerned Details .

2.1.3 Output

1. if all details are correctly filled he/she is registered , allotted a Customer_No .
2. else "Enter Valid Details " Message is Displayed .

2.2.1 Description

Edit User Details.

2.2.2 Input

Changes to Required Fields , username , customer number are un-editable.

2.2.3 Output

If Passwords Match and all entered details are valid (no field is empty , telephone number and S.S.No are valid)

2.3.1 Description

Search for Product , given type or product name.

2.3.2 Input

Enter Query and click Search Button .

2.3.3 Output

If Empty Search or un parse able characters then "Please RE-Enter Query is displayed".

2.5.1 Description

To select double click on searched button or click on cart to edit details .

2.5.2 Input

Enter Query and click Search Button .

2.5.3 Output

Exception is caught and is ignored .

2.6.1 Description

Shopping

2.6.2 Input

Enter large number than available in inventory .

2.6.3 Output

"Out of stock inventory" is displayed as error message .

2.7.1 Description

Checkout

2.7.2 Input

Click Check out button with an empty cart.

2.7.3 Output

Exception is caught and no Action is Taken

Owner Tasks

3.1.1 Description

User Validation

3.1.2 Input

Enter details and click on Submit Details Button .

3.1.3 Output

Exception is caught and is ignored .

3.2.1 Description

Insert Product.

3.2.2 Input

Enter corresponding details and click on INSERT button.

3.2.3 Output

"Please Enter Valid Details" is displayed if details are invalid.

3.3.1 Description

Update Product.

3.3.2 Input

Enter corresponding details and click on UPDATE button.

3.3.3 Output

"Please Enter Valid Details" is displayed if there is no details related to given product or invalid update is requested.

3.4.1 Description

Delete Product.

3.4.2 Input

Enter corresponding details and click on DELETE button.

3.4.3 Output

"Please Enter Valid Details" is displayed if there is no details related to given product .

White Box Approach

All Stakeholders

1.1.1 Description

Login

1.1.2 Input

- 1.Username or password fields are empty
- 2.Result set is null
- 3.Any exceptional behaviour has occurred.

1.1.3 Output

Error message is displayed.

Customer's Tasks

2.1.1 Description

New User Registry .

2.1.2 Input

- 1.Any required field is null.
- 2.Telephone number is not a number or exceeds 10 digits.

2.1.3 Output

Error message is displayed.

2.2.1 Description

Edit User Details

2.2.2 Input

- 1.Any required field is null.
- 2.Telephone number is not a number or exceeds 10 digits.
- 3.Passwords match

2.2.3 Output

Error Message is Displayed

2.3.1 Description

Search Product.

2.3.2 Input

- 1.Search field is null.
- 2.No check box is checked.

2.3.3 Output

Error Message is Displayed

2.4.1 Description

Click on Empty Rows of table put if customer is given any special offer or gift.

2.4.2 Input

Data taken from point of click or double click is null.

2.4.3 Output

Error Message is Displayed

2.5.1 Description

Invalid search data

2.5.2 Input

- 1.Search field is null.
- 2.No check box is checked.

2.5.3 Output

Exception is caught and is ignored .

2.6.1 Description

Shopping

2.6.2 Input

Enter large number than available in inventory .

2.6.3 Output

"Out of stock inventory" is displayed as error message .

2.7.1 Description

Checkout

2.7.2 Input

Click Check out button with an empty cart.

2.7.3 Output

Exception is caught and no Action is Taken .

Owner Tasks

3.1.1 Description

Enter username , password , store address .

3.1.2 Input

Invalid details are entered while editing user data

3.1.3 Output

Error Message is displayed

3.2.1 Description

Insert Product.

3.2.2 Input

- 1.Fields are left empty.
- 2.Quantity or price are un parse able.

3.2.3 Output

"Please Enter Valid Details" is displayed if details are invalid.

3.3.1 Description

Update Product.

3.3.2 Input

- 1.Fields are left empty.
- 2.Item ID is unparseable.
- 3.There is no corresponding record to be updated.

3.3.3 Output

"Please Enter Valid Details" is displayed if there is no details related to given product or invalid update is requested.

3.4.1 Description

Delete Product.

3.4.2 Input

- 1.Fields are left empty.
- 2.Item Id is unparseable.
- 3.There is no corresponding record to be deleted.

3.4.3 Output

"Please Enter Valid Details" is displayed if there is no details related to given product .