JAHANGIRNAGAR UNIVERSITY

Institute of Information Technology (IIT)

ASSIGNMENT 1
PMIT 6111 SOFTWARE TESTING & QUALITY ASSURANCE
Summer Semester 2023 Intake
Date of Submission: JULY 10, 2023

Submitted by
HASAN TAHSIN RAFSAN
Professional Masters in Information Technology (PMIT) Program
1ST Trimester Regular Batch - Section A
ID No: 232137

Submitted to
DR. FAHIMA TABASSUM
Professor
Institute of Information Technology

ASSIGNED TASKS

1. Create your own story.
2. Find product backlog according to your story.

STORY TITLE: DEVELOP AN ONLINE SHOP WEBSITE

Let us assume we want to develop an online shop website/e-commerce website for a shop. Where the shop owner will sell different types of products (for example books, medicines, groceries, etc.) and the customer will buy their desired things through that website. Here to make it easier, we will take the book as our main product.

First of all, when a user opens the website, he/she will visit the homepage of the site. Here he/she can visit the store as a visitor. This page is a kind of clickable image of products or a slideshow of products based on different categories.

Then, once a user found the desired products by clicking on the homepage, the user will be redirected to the product overview page. Here he/she can see the full details information, authors name, ISBN no, reviews or ratings of that product according to its price and stock information. The selected item also includes options for checkout.

After selecting the product for checkout, the website will add them to a cart and continue the shopping. If that or other items adds by the user again, the shopping cart will be incremented. Similarly, the user can also remove items and then proceed to checkout. This time user will have to face the "Login" page as a pre-registered user for the system. If the user is a new customer, there he can visit the "Registration" page. After being registered successfully he/she can be able to pay and checkout.

Moreover, on the homepage or other pages, under the navigation bar, there might be the option for recommended products or sort by categories (genre) or featured products, log in and register submenu. The system also includes search features. While the user will type the initial some letters of the product, he/she can see a list of possible products starting with those letters. If the user registered or logged in previously before browsing, he/she will show the default login screen as the user.

PRODUCT BACKLOG

The product backlog contains the features to be developed along with the priority level and workload. Based on the user stories, the main goal is to set up a website with different pages. The main product backlogs are Product List, Product Details, Carts, User Registration, User Login, Purchase record, etc. Here some of the product backlog is divided into tasks according to the category of system users.

A. EXAMPLE OF TASK CARDS FOR THIS STORY

TASK 1 : Home Page
  TASK 2: Product Details
    TASK 3: Payment and Checkout
      TASK 4: User Login
        TASK 5: User Register

User needs to register with a unique and valid criteria of username with email address and valid password before checkout and purchase anything from the store.
The valid criteria will be as: user identity length maximum 24 words, must be small letters, no use of space or symbols and cannot be start with digits.
After successful registration or login hit enter or click button for forward processing.

B. TEST CASE DESCRIPTION FOR "TASK 5" USER REGISTER

Input

Take user input as username, email address and password.

Tests

1. Test for inputs where email address is left blank
2. Test for input where password is left blank
3. Test for inputs the email address is in correct format
4. Test for inputs where an invalid form of email is given
5. Test for inputs with username consisting of capital letters
6. Test for inputs with username consisting of symbols or space
7. Test for inputs with username consisting of digits at first
8. Test for input for duplicate username
9. Test for inputs the username cannot be duplicate with duplicate email
10. Test for inputs the unique username, password and email address in correct form

Output

Shows the error message for unsuccessful attempts or redirects to next process for successful attempts.

-.-

REFERENCES

1. Class Lectures
2. Sommerville, Software Engineering 9e Main Book & video resources
3. Browserstack
4. Explore Extreme Programming xp123