Day 5

Date: - 09-08-2024

Linux Operating System

Linux:

- Linux is a powerful, open-source operating system kernel that forms the core of many operating systems.
- The full form of Linux is "Lovable Intellect Not Using XP." Linux is an operating system that was created by Linus Torvalds and is based on the Unix operating system.
- The Linux Kernel is like the brain of the operating system because it manages how the computer interacts with its hardware and resources.

Assignment:

Write a BDD Test cases for Amazon to identify five PO (Critical) Scenarios by using

Given

When

Then

Feature: Login Feature

Scenario-1: Search Returns Relevant Results

- **Given** a user is on the Amazon homepage,
- **When** they enter a valid product name (e.g. "Laptop") into the search bar and click the search button,
- **Then** they should see a list of products related to "Laptop".

Feature: Checkout Scenario

Scenario-2: Add Out-of-Stock Product

- **Given** a user is on a product detail page for an out-of-stock item (e.g., "Apple MacBook Pro"),
- **When** they try to add the product to the cart,
- **Then** they should see a message indicating that the product is out of stock,
- **And** the product should not be added to the cart.

Feature: Checkout Scenario

Scenario-3: Successful Checkout

- **Given** a user has items in their cart and is on the checkout page,
- **When** they enter valid shipping information and payment details,
- **And** they click the "Place Order" button,
- **Then** the order should be successfully placed.

Scenario-4: Payment Failure

- **Given** a user is on the checkout page with items in their cart,
- **When** they enter invalid payment details like expired credit card and submit the form,
- **Then** they should receive an error message indicating payment failure.

Feature: Login Feature

Scenario-5: Invalid Login Attempt

- **Given** a user is on the Amazon login page,
- **When** they enter invalid login credentials Like incorrect email or password and submit the form,
- **Then** they should receive an error message indicating incorrect credentials.

Feature: Checkout Scenario

Assignment-1:

Agile Project Planning - Create a one-page project plan for a new software feature using Agile planning techniques. Include backlog items with estimated story points and a prioritized list of user stories.

Agile Project Plan: New Software Feature - Enhanced Login and Authentication System

Project Overview: Develop an enhanced login and authentication system to improve security and user experience. This feature will include options for biometric login, social media sign-in, and a more robust password management system.

1. User Stories and Backlog Items

User Story 1: Biometric Login Support

- **Description:** As a user, I want to log in using biometric authentication (e.g., fingerprint, face recognition) for a faster and more secure login experience.

- **Acceptance Criteria:**
  - Users can enable biometric login in their account settings.
  - Biometric login options include fingerprint and face recognition.
  - Users can authenticate using biometric methods on supported devices.
- **Story Points:** 9

User Story 2: Social Media Sign-In Options

- **Description:** As a user, I want to sign in using my social media accounts (e.g., Google, Facebook) to streamline the login process.
- **Acceptance Criteria:**
  - Users can choose to sign in using Google, Facebook, or other supported social media accounts.
  - Social media login is integrated seamlessly with existing account systems.
  - Users are redirected back to the application after successful authentication.
- **Story Points:** 7

User Story 3: Enhanced Password Management

- **Description:** As a user, I want a more robust password management system that includes password strength indicators and secure password reset options.
- **Acceptance Criteria:**
  - Password strength indicator is displayed during password creation and updates.
  - Secure password reset process includes email verification and temporary passwords.
  - Users can update their passwords securely and easily.
- **Story Points:** 8

User Story 4: User Experience Improvements

- **Description:** As a user, I want an improved login experience with a clear, user-friendly interface and helpful error messages.
- **Acceptance Criteria:**
  - Login interface is intuitive and easy to navigate.
  - Error messages are clear and provide guidance for resolving issues (e.g., incorrect password).
  - Login process is optimized for both desktop and mobile devices.
- **Story Points:** 5

2. Prioritized Backlog

1) **Biometric Login Support** - 9 Story Points
2) **Social Media Sign-In Options** - 7 Story Points
3) **Enhanced Password Management** - 8 Story Points

4) **User Experience Improvements** - 5 Story Points

3. Sprint Planning

Sprint Duration: 2 Weeks

Sprint Goals:

- Implement Biometric Login Support (Story 1)

Sprint Backlog:

- Biometric Login Support - 9 Story Points

Team Capacity: 20 Story Points (2-week sprint)

Assignment-2:

Daily Standup Simulation - Write a script for a Daily Standup meeting for a development team working on the software feature from Assignment 1. Address a common challenge and incorporate a solution into the communication flow.

Daily Standup Meeting Script

Participants:

- Rani (Developer)
- Rahul (Developer)
- Lakshmi (Scrum Master)
- Sweety (Product Owner)

Date: August 14, 2024

Lakshmi (Scrum Master): Good morning, team. Let's get started with our daily standup. As usual, we'll cover what we worked on yesterday, what we're working on today, and any blockers or challenges we're facing. Rani, can you start?

Rani (Developer):

- **Yesterday:** I completed the implementation of the Multi-Factor Authentication (MFA) setup interface. It's now integrated with our backend system.
- **Today:** I'll be working on integrating the verification process for MFA, including testing the verification codes.

Rahul (Developer):

- **Yesterday:** I started working on the Enhanced User Account Management Interface. I made good progress on the dashboard layout and began setting up the permissions management component.
- **Today:** I plan to finish the permissions management component and start integrating the MFA enable/disable functionality for admins.
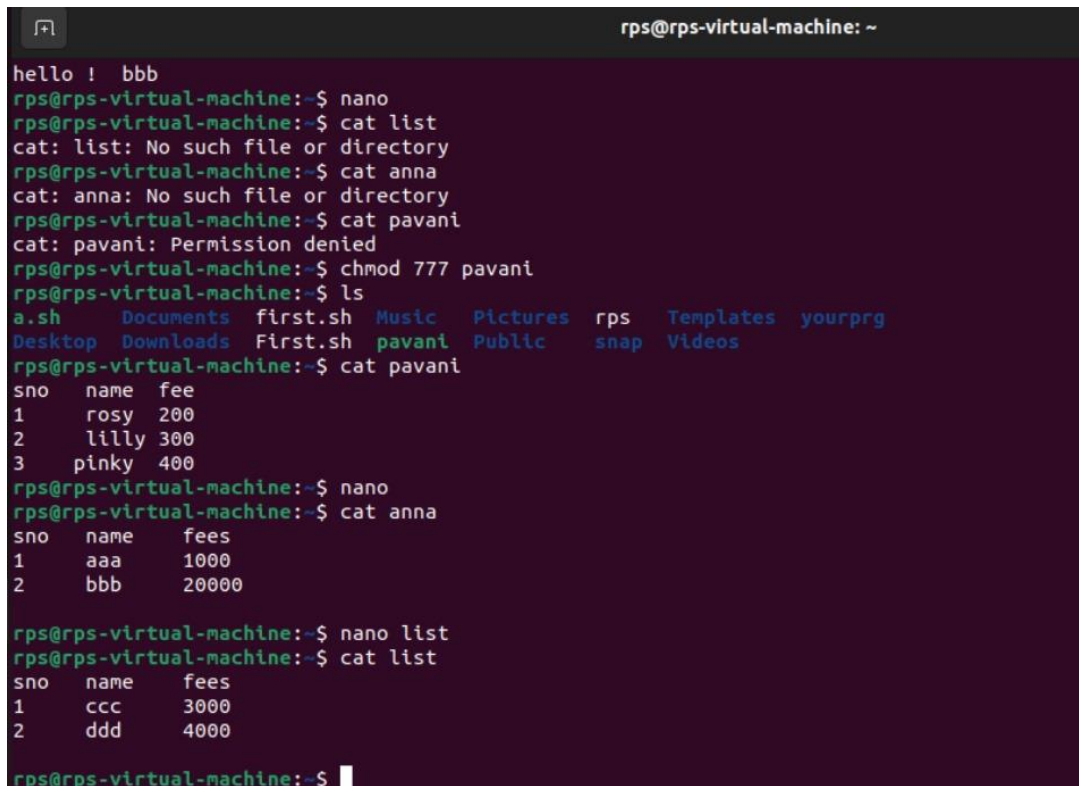- **Blockers:** No blockers at the moment. I'm proceeding as planned.

Sweety (Product Owner):

- **Updates:** The business team is happy with the progress on the MFA feature and the user management interface. I've gathered some additional requirements for the notification system, which we'll need to discuss in our next sprint planning.

Lakshmi (Scrum Master):

- **Common Challenge:** Alice, I see the issue with the SMS service integration could be a significant blocker. Let's address this issue now. It's crucial to ensure the MFA verification process works smoothly.

Linux Commands:

```
rps@rps-virtual-machine:~$
rps@rps-virtual-machine:~$ cat pavani
sno    name  fee
1      rosy  200
2      lilly 300
3      pinky  400
rps@rps-virtual-machine:~$ cd ~karnataka
bash: cd: ~karnataka: No such file or directory
rps@rps-virtual-machine:~$ cd ./india
rps@rps-virtual-machine:~/india$ cd ./karnataka
rps@rps-virtual-machine:~/india/karnataka$ cd ..
rps@rps-virtual-machine:~/india$ cd ..
rps@rps-virtual-machine:~$ cd ./india/karnataka/pavani.txt
bash: cd: ./india/karnataka/pavani.txt: No such file or directory
rps@rps-virtual-machine:~$ mkdir /india/karnataka/pavani.txt
mkdir: cannot create directory '/india/karnataka/pavani.txt': No such file or directory
rps@rps-virtual-machine:~$ mkdir india/karnataka/pavani.txt
rps@rps-virtual-machine:~$ mkdir india/karnataka/
mkdir: cannot create directory 'india/karnataka/': File exists
rps@rps-virtual-machine:~$ cd ./india
rps@rps-virtual-machine:~/india$ cd ./karnataka/
rps@rps-virtual-machine:~/india/karnataka$ pwd
/home/rps/india/karnataka
rps@rps-virtual-machine:~/india/karnataka$ ls
myfile.text   myfile.txt   pavani.txt
rps@rps-virtual-machine:~/india/karnataka$ cat pavani.txt
cat: pavani.txt: Is a directory
rps@rps-virtual-machine:~/india/karnataka$ nano pavani.txt
rps@rps-virtual-machine:~/india/karnataka$ nano rps
rps@rps-virtual-machine:~/india/karnataka$
```