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.

ANS: AGILE PROJECT PLAN: E-COMMERCE

PROJECT NAME: E-COMMERCE

Objective: Improve the checkout process to increase conversion rates and enhance user experience.

BACKLOG ITEMS:

1. Guest Checkout Option

   - Story Points: 5

   - Description: Implement a guest checkout option to allow users to make purchases without creating an account.

2. Address Autofill

   - Story Points: 3

   - Description: Enable autofill functionality for shipping and billing addresses to streamline the checkout process.

3. Order Summary Review

   - Story Points: 8

   - Description: Develop a step for users to review their order summary before finalizing the purchase.

4. Multiple Payment Methods

   - Story Points: 5

   - Description: Integrate multiple payment methods such as credit/debit cards, PayPal, and Apple Pay.

5. Real-time Shipping Rates

   - Story Points: 8

   - Description: Display real-time shipping rates based on the user's location and selected shipping method.

PRIORITIZED USER STORIES:

1. As a customer, I want to have the option to checkout as a guest so that I can complete my purchase quickly.

   - Backlog Item: Guest Checkout Option

2. As a customer, I want my shipping and billing addresses to be autofilled to save time during checkout.

   - Backlog Item: Address Autofill

3. As a customer, I want to review my order summary before completing my purchase to ensure accuracy.

   - Backlog Item: Order Summary Review

4. As a customer, I want to choose from multiple payment methods to make payment convenient for me.

   - Backlog Item: Multiple Payment Methods

5. As a customer, I want to see real-time shipping rates based on my location and selected shipping method.

   - Backlog Item: Real-time Shipping Rates

Timeline:

- Sprint 1: Guest Checkout Option, Address Autofill

- Sprint 2: Order Summary Review, Multiple Payment Methods

- Sprint 3: Real-time Shipping Rates, Testing, and Deployment

CONCLUSION:

This Agile project plan outlines the implementation of new features to optimize the checkout process for an e-commerce platform. By prioritizing user stories and estimating story points, the project team can deliver incremental improvements to enhance user experience and increase conversion rates.

Feel free to adjust the backlog items, user stories, or timeline to fit your project's needs!

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.

ANS:

DAILY STANDUP MEETING - E-COMMERCE PROJECT

TEAM: [SAYAN], [ABHAY], [RUBY]

Date: May 13, 2024

Meeting Objective: Briefly discuss progress, challenges, and solutions for the assigned e-commerce project feature.

[Ruby]

Yesterday: I completed the development of the core product search functionality. Users can now search for items by name and category.

Today: I'll be integrating the search results page with the product listing and shopping cart functionalities.

Challenges: I anticipate a challenge in ensuring proper filtering of search results based on additional criteria like price range and brand.

[Sayan]

Yesterday: I finalized the user interface design for the product details page, including high-quality product images and zoom functionality.

Today: I'll be working on integrating the product details page with the shopping cart and checkout process.

Challenges: None at this point.

[Abhay]

Yesterday: I made significant progress on the backend API for handling product data and inventory management.

Today: I'll be focusing on connecting the API to the search functionality to ensure real-time product availability.

Challenges: There might be a need for additional data validation on the product information side to prevent errors.

Solution for Search Filter Challenge:

[RUBY]: To address the search filter challenge, I propose implementing a faceted search system. This allows users to filter results based on various criteria like price range, brand, and color through checkboxes or dropdown menus.

TEAM DISCUSSION:

Both [SAYAN] and [ABHAY] agree that a faceted search system would be an efficient solution for filtering search results. We can discuss the specific implementation details further after a quick review of existing libraries or plugins that might simplify the process.

ACTION ITEMS:

[RUBY]: Develop the faceted search functionality for product filtering.

[SAYAN]: Integrate the product details page with the shopping cart and checkout process.

[ABHAY]: Connect the backend API to the search functionality and implement data validation for product information.

NEXT STEPS:

We'll reconvene tomorrow for our daily standup to discuss further progress and address any new challenges that may arise.