**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.**

**Project Name: Online Shopping Platform Enhancement**

**Project Overview:**

The objective is to enhance the online shopping platform by adding new features to improve user experience and increase customer engagement.

**Backlog Items:**

1. User Story: As a shopper, I want to be able to filter search results by price range to find products within my budget.

Acceptance Criteria: Users can set minimum and maximum price limits for product searches, and search results are filtered accordingly.

2. User Story: As a shopper, I want to receive personalized product recommendations based on my browsing history and preferences.

Acceptance Criteria: The platform analyses user browsing history and past purchases to suggest relevant products on the homepage or in a dedicated recommendations section.

3. User Story: As a shopper, I want to be able to save items to my wishlist for future purchase consideration.

Acceptance Criteria: Users can add products to their wishlist, view their wishlist at any time, and easily move items to the shopping cart.

4. User Story: As a shopper, I want to receive notifications for price drops or when items in my wishlist are back in stock.

Acceptance Criteria: Users receive push notifications or email alerts for price changes or when out-of-stock items become available again.

5. User Story: As a shopper, I want the platform to support multiple payment options, including credit/debit cards, PayPal, and digital wallets.

Acceptance Criteria: Users can choose from various payment methods during checkout, and the platform securely processes payments through selected payment gateways.

**Priority:**

1. User Story 2 (Personalized Recommendations)

2. User Story 5 (Multiple Payment Options)

3. User Story 3 (Wishlist Functionality)

4. User Story 1 (Price Range Filters)

5. User Story 4 (Price Drop Notifications)

**Sprint Planning:**

We'll plan our development work in two-week sprints, with a focus on delivering working software increments at the end of each sprint.

For each sprint, we'll select a subset of user stories from the product backlog based on priority and estimated effort.

**Sprint 1:**

Select backlog items 2,5.

Sprint Goal: Enhance user engagement and increase conversion rates through personalized product recommendations and multiple payment options.

**Sprint 2:**

Select backlog items 3,1.

Sprint Goal: Improve user experience and facilitate product discovery with wishlist functionality and price range filters.

**Sprint 3:**

Select backlog items 4.

Sprint Goal: Enhance user satisfaction by providing timely notifications for price drops and restocked items.

**Estimation:**

We'll estimate the effort required to complete each user story using story points, a relative estimation technique.

**Story Point Estimation:**

We’ll use a scale of 1, 2, 3, 5, 8, 13, 18, 40, 100 for story points estimation, where 1 represents the smallest effort and 100 represents the largest.

**Estimation Results:**

1. User Story 1 (Price Range Filters) - 3 story points
2. User Story 2 (Personalized Recommendations) - 8 story points
3. User Story 3 (Wishlist Functionality) - 5 story points
4. User Story 4 (Price Drop Notifications) - 3 story points
5. User Story 5 (Multiple Payment Options) - 8 story points

**Execution:**

Development work will begin according to the sprint plan, with daily standup meetings held to track progress, discuss any impediments, and ensure alignment within the team.

**Review and Retrospective:**

At the end of each sprint, a sprint review will be conduct to demonstrate completed features to stakeholders and gather feedback. Also, a retrospective meeting hold to reflect on what went well, what could be improved, and any adjustments needed for future sprints.

By organizing the development work into sprints and focusing on delivering valuable features incrementally, the team can maintain a steady pace of development and adapt to changes effectively throughout the project.

**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:**

[Opening]

**Facilitator:** Good morning team! Welcome to our daily standup meeting. Let's start by sharing updates on our progress. Today, I'd like us to talk about the challenge of maintaining consistency in coding standards across different modules of the Online Shopping Platform Enhancement project.

[Team Updates]

**Developer 1:** Morning everyone! Yesterday, I completed the backend logic for the wishlist functionality. Today, I'll be working on integrating it with the frontend components.

**Developer 2:** Hi team! I made progress on implementing the price range filters. I encountered some issues with the UI layout, but I managed to resolve them. Today, I'll be optimizing the filter options for better user experience.

**Developer 3:** Good morning! Yesterday, I worked on the payment processing module. I encountered some discrepancies in the transaction logs, so I'll be debugging and fixing the issues today.

[Addressing the Challenge]

**Facilitator:** Thank you for the updates, team. It's evident that we're moving forward with our tasks effectively. However, ensuring consistency in coding standards across different modules can be challenging. To talk about this, let's establish regular code review sessions where each team member reviews code from another module. This not only promotes knowledge sharing but also helps maintain consistency in coding practices across the project. Additionally, we can create a shared document outlining coding standards and best practices for reference.

**Developer 1:** That sounds like a great idea. I think regular code reviews will also help us identify potential issues early on and ensure the overall quality of our codebase.

**Developer 2:** Agreed. Having a shared document with coding standards will provide clear guidelines for everyone to follow, reducing the likelihood of inconsistencies.

[Closing]

**Facilitator:** Fantastic! Let's implement these strategies starting today and monitor their impact on maintaining coding standards across the project. Remember, collaboration and adherence to coding best practices are essential for delivering a high-quality Online Shopping Platform Enhancement. If anyone needs assistance or encounters barriers, don't hesitate to reach out to the team. Have a productive day, everyone!