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To refine the sprint planning while keeping the user tasks organized under their respective epics, and incorporating the necessary technical infrastructure and tool-related activities, here's an adjusted overview. This structure ensures a balanced focus on both feature development and the underlying technical support needed for a successful project execution.

Sprint Planning Overview with Epics and Technical Infrastructure Activities

Sprint 1: Foundation and Infrastructure

Objective: Set up essential technical infrastructure and start building the core features related to user authentication, account management, and product search.

Epic 1: User Authentication and Account Management

User Story 1: Register for a new account using email and password.

User Story 2: Receive a confirmation email upon successful registration.

Epic 2: Product Search and Recommendations

User Story 1: Search for products by keyword, category, and price range.

Technical Infrastructure Activity:

Set up the development environment and version control system:

Establish development environments, databases, server configurations, and a version control system using Git, hosted on GitHub or GitLab for collaboration.

Sprint 2: Enhancements and Expansions

Objective: Enhance user account management, introduce personalized product recommendations, and refine product search capabilities.

Epic 1: User Authentication and Account Management

User Story 3: Reset password if forgotten.

User Story 4: Update personal information in account settings.

User Story 5: Link social media accounts for easier login.

Epic 2: Product Search and Recommendations

User Story 2: See personalized product recommendations based on browsing and purchase history.

User Story 3: Filter search results by various criteria.

Technical Infrastructure Activity:

Implement Continuous Integration/Continuous Deployment (CI/CD) pipelines:

Set up CI/CD pipelines using tools like Jenkins, CircleCI, or GitHub Actions to automate testing and deployment, enhancing development workflow and product quality.

Sprint 3: Advanced Features and Shopping Cart Initiation

Objective: Implement advanced product recommendation notifications, and begin enhancements to the shopping cart and checkout process for a better user experience.

Epic 2: Product Search and Recommendations

User Story 4: Receive real-time notifications for new products, promotions, and price drops.

Epic 3: Shopping Cart and Checkout

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User Story 1: Add products to my shopping cart from the product detail page.

User Story 2: View and edit the contents of my shopping cart before checking out.

Technical Infrastructure Activity:

Integrate a search engine and set up notification services:

Implement Elasticsearch for efficient product searches and configure notification services using SendGrid or Twilio for email and SMS alerts.

Sprint 4: Checkout Process and Final Touches

Objective: Finalize the shopping cart enhancements, streamline the checkout process, and ensure a seamless integration of payment options and security measures.

Epic 3: Shopping Cart and Checkout

User Story 3: Apply discount codes and see the adjusted total price.

User Story 4: Select different shipping and payment options during checkout.

User Story 5: Receive an order confirmation email with details about my purchase.

Technical Infrastructure Activity:

Secure payment gateway integration and SSL certification:

Incorporate secure payment gateways such as Stripe or PayPal and ensure the platform's security with SSL certification, safeguarding user transactions and data.

Additional Considerations

Agile Flexibility: Be prepared to adjust tasks and priorities based on feedback and iterative testing.

Security and Performance: Focus on security best practices and performance optimization, especially when integrating new services or handling user data.

Documentation and Collaboration: Maintain up-to-date documentation for all technical setups and encourage continuous collaboration within the team, especially when transitioning between sprints.

This structured sprint plan aims to systematically address the development of user-centric features while ensuring the technical backbone of the platform is robust, secure, and scalable.