

Solution: Create Sprint Goals, Definition of Done, and Communication Plan

Review the potential solution for the tasks in this lab by using the solution key below to compare and validate your response.

Step 1: Write a Sprint Goal

Solution: “Enable users to register, search for products, and add items to their cart, laying the foundation for a seamless shopping experience.”

Solution for Steps 2, 3, 4, and 5:

Sprint Plan with Definition of Done and Acceptance Criteria

User Story 1: “As a user, I want to register for an account so that I can make purchases and track my orders.”

- **Tasks:**

1. Design the user registration form (frontend).
2. Set up the user database (backend).
3. Implement user authentication (backend).
4. Write unit tests for registration functionality.
5. Update documentation for the registration process.

- **Definition of Done (DoD):**

1. The registration form is fully functional and responsive.
1. User data is securely stored in the database.
2. Unit tests pass with 100% coverage.
3. Documentation is updated and reviewed.

- **Acceptance Criteria:**

1. “As a new user, when I fill out the registration form with valid details, I should receive a confirmation email.”

1. “Given that I am a new user, when I submit the registration form with invalid details, then I should see an error message.”
2. “Given that I am a registered user, when I log in with my credentials, then I should be redirected to my account dashboard.”

User Story 2: “As a user, I want to securely check out to ensure my personal information is protected.”

- **Tasks:**

1. Integrate with a secure payment gateway (backend).
2. Design the checkout page (frontend).
3. Implement input validation for payment details (frontend).
4. Write unit tests for the checkout functionality.
5. Update documentation for the checkout process.

- **Definition of Done (DoD):**

1. The payment gateway integration is complete and functional.
1. The checkout page is responsive and user-friendly.
2. Unit tests pass with 100% coverage.
3. Documentation is updated and reviewed.

- **Acceptance Criteria:**

1. Given that I am a registered user, when I enter valid payment details, then my payment should be processed successfully.
1. Given that I am a registered user, when I enter invalid payment details, then I should see an error message.
2. Given that I am a registered user, when I complete the checkout process, then I should receive an order confirmation email.

User Story 3: “As a user, I want to search for products and filter them by type, size, and quantity so that I can easily find what I need.”

- **Tasks:**

1. Design the product search bar and filters (frontend).
2. Set up the product database (backend).
3. Implement search and filter functionality (backend).
4. Write unit tests for search and filter functionality.
5. Update documentation for the search feature.

- **Definition of Done (DoD):**

1. The search bar and filters are fully functional and responsive.
1. The product database is populated with sample data.
2. Unit tests pass with 100% coverage.
3. Documentation is updated and reviewed.

- **Acceptance Criteria:**

1. Given that I am a user, when I search for a product by name, then I should see relevant results.
1. Given that I am a user, when I filter products by size, then I should see only products of that size.
2. Given that I am a user, when I filter products by type, then I should see only products of that type.

User Story 4: “As a user, I want to view detailed product information so that I can make informed purchasing decisions.”

- **Tasks:**

1. Design the product detail page (frontend).
2. Populate the product database with sample data (backend).
3. Implement API endpoints for product details (backend).
4. Write unit tests for product detail functionality.
5. Update documentation for the product detail feature.

- **Definition of Done (DoD):**

1. The Product Detail page is fully functional and responsive.
1. API endpoints return accurate product information.
2. Unit tests pass with 100% coverage.
3. Documentation is updated and reviewed.

- **Acceptance Criteria:**

1. "As a user, when I click on a product, then I should see detailed information about that product."
1. "As a user, when I view a product, then I should see images, descriptions, and pricing."
2. "As a user, when I view a product, then I should see customer reviews and ratings."

User Story 5: "As a user, I want to add products to my cart so that I can purchase multiple items at once. "

- **Tasks:**

1. Design the shopping cart interface (frontend).
2. Implement cart functionality (backend).
3. Write unit tests for cart functionality.
4. Update documentation for the cart feature.

- **Definition of Done (DoD):**

1. The shopping cart is fully functional and responsive.
1. Cart data is stored securely and persists across sessions.
2. Unit tests pass with 100% coverage.
3. Documentation is updated and reviewed.

- **Acceptance Criteria:**

1. "As a user, when I add a product to my cart, then it should appear in the cart summary."

1. “As a user, when I remove a product from my cart, then it should no longer appear in the cart summary.”
2. “As a user, when I update the quantity of a product in my cart, then the total price should be recalculated.”

Solution for Step 6: Create a communication plan

Event/ Situation	Purpose	Channel	Frequency	Required Parties
Kickoff	Introduce the project and team members. Align on requirements and goals.	In person/ face to face	Once	Sponsor Product Owner DevOps Scrum Master
Daily Scrum	Report on progress. Identify roadblocks.	In person/ face to face	Daily	Product Owner DevOps Scrum Master
Sprint Planning	Identify goals for the next sprint.	In person/ face to face	After the end of a sprint	Product Owner DevOps Scrum Master
Backlog Refinement	Update product backlog.	In person or virtual	As needed	Product Owner

Sprint Review	Review deliverables of current sprint. Solicit feedback. Make or plan improvements	In person or virtual	At the end of the sprint	Product Owner DevOps Scrum Master Key stakeholders
Retrospective	Capture lessons learned	In person or virtual	At the end of the project	Product Owner DevOps Scrum Master Key stakeholders
Escalations	Solicit support for issues and conflicts outside of core team's authority or control	In person or virtual	As needed	Product Owner Needed authority
Demos	Demonstrate working features Gather real-time input	In person or virtual	At the end of a sprint	Product Owner DevOps Scrum Master Key stakeholders
Project Status	Overview of Scrum team progress	Email or dashboard	As negotiated	Product Owner Requestors