**Agile Project**

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**Batch: 10th Aug 2024**

**Online Shopping Application**

The telephone agent uses an order registry and customer catalogue to obtain access to an order & a customer respectively.

The order registry uses an order number as a qualifier to select particular order instance. A customer catalogue uses customer name and phone number as a qualifier to select particular customer.

The attributes of an order are the order numbers and time when it is placed. The order consists of many items.

An item has item number, a quantity, unit price. It also has reference to catalogue item which represents listing.

When an order is cancelled or committed, it cancels or commits each of its items first.

When an order’s total price method is invoked, the order calls the total price method of each of items and returns the sum.

**Valid Considerations:**

Inclusion: Customer provides his/her details online before placing an order.

**Agile Documents –**

Document 1: Definition of Done

Document 2- Product Vision

Document 3: User stories

Document 4: Agile PO Experience

Document 5: Product and sprint backlog and product and sprint burndown charts

Document 6: Sprint meetings

**Document 1: Definition of Done**

The **Definition of Done (DoD)** ensures that a user story or task meets project quality standards and is fully completed before delivery. The following criteria must be satisfied for any feature or functionality to be considered "Done":

1. **Produced Code for Presumed Functionalities:**

* The development team has written and committed the necessary code to deliver the intended features as outlined in the user stories.

1. **Assumptions of User Story Met:**

* The implemented functionality aligns with business requirements and meets all specified assumptions and conditions.

1. **Project Builds Without Errors:**

* The system compiles without errors, ensuring that newly integrated code does not disrupt existing functionalities.

1. **Unit Tests Written and Passing:**

* Unit tests have been written to validate the functionality, and all tests execute successfully without failures.

1. **Project Deployed on the Test Environment Identical to Production Platform:**

* The application is deployed in a testing environment that replicates the production setup to ensure consistency and reliability.

1. **Tests on Devices/Browsers Listed in the Project Assumptions Passed:**

* The application has been tested on all required devices and browsers listed in project requirements to confirm seamless performance.

1. **Feature Ok-ed by UX Designer:**

* The UX designer has reviewed and approved the feature, ensuring that the user interface and experience align with design expectations.

1. **QA Performed & Issues Resolved:**

* QA testing has been conducted, with all identified defects logged, addressed, and retested for confirmation.

1. **Feature is Tested Against Acceptance Criteria:**

* The feature has been tested to ensure it meets the acceptance criteria defined in the user story.

1. **Feature Ok-ed by Product Owner:**

* The Product Owner has reviewed the functionality and approved it as meeting business needs and requirements.

1. **Refactoring Completed:**

* Any necessary code optimizations and improvements have been made to enhance readability, maintainability, and efficiency.

1. **Any Configuration or Build Changes Documented:**

* Any updates to configurations, environment settings, or build-related changes have been properly recorded.

1. **Documentation Updated:**

* All relevant documents, including technical notes, user guides, and API documentation, have been updated accordingly.

1. **Peer Code Review Performed:**

* The code has undergone a peer review process to ensure compliance with best coding practices, security standards, and project guidelines.

**Document 2- Product Vision**

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| **Scrum Project Name**: | Online Shopping Application | | |
| **Venue:** | Conference Room | | |
| **Date:** | **Start time:** | **End Time:** | **Duration:** |
| **Client:** | Mr. ABC | | |
| **Stakeholder List:** | Business Owner (Client) | | |
| Customers (End Users) | | |
| Telephone Agents | | |
| Scrum Team (Product Owner, Scrum Master, Developers, QA Testers) | | |
| Database Administrators | | |
| UI/UX Designers | | |
| Network & Security Team | | |
| Customer Support Team | | |
| **Scrum Team** | | | |
| **Scrum Master:** | Mr. XYZ | | |
| **Product owner:** | Mr. PQR | | |
| **Scrum Developer 1:** | Mr. LMN | | |
| **Scrum Developer 2:** | Mr. POL | | |
| **Scrum Developer 3:** | Mr. KST | | |
| **Scrum Developer 4:** | Mr. MSP | | |
| **Scrum Developer 5:** | Mr. MNO | | |

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| **Vision:** To develop an Online Shopping Platform that enhances order tracking, customer management, and automated price calculations, enabling businesses to manage orders efficiently while offering customers a seamless shopping experience. | | | |
| **Target Group**   * **Customers:** Individuals looking for an intuitive and user-friendly online shopping experience. * **Telephone Agents:** Customer support representatives who need a structured and efficient order processing system. * **Business Owners:** Entrepreneurs and companies aiming to scale and optimize order management. | **Needs**   * **Customers:** Require a convenient platform for placing, tracking, and managing orders independently. * **Agents:** Need a structured system for quick and organized order retrieval using order numbers, names, and phone numbers. * **Business Owners:** Seek an automated, scalable, and secure order management solution. | **Product**   * **An Online Shopping Platform with:** * Customer Registration & Profile Management * Order Processing & Tracking System * Secure Customer Data Storage & Searchability * Automated Order Calculations & Modifications * Real-Time Data Access for Orders & Customers | **Value**   * **For Customers:** Faster and more convenient shopping experience with order tracking. * **For Businesses:** Improved efficiency, better order management, and reduced manual errors. * **For Agents:** Simplified order processing with easy access to order and customer details. * **Business Model:** A scalable platform designed for growth, capable of handling increasing customer demands. |

**Document 3: User stories**

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| User story No: 1 | Tasks: 2 | Priority: High |
| Value statement:  As a new user,  I want to register on the platform,  so that I can place orders and track my purchases. | | |
| BV: 500 | CP: 8 | |
| Acceptance criteria:   1. The system should allow users to enter their name, phone number, and email. 2. Users should receive a confirmation email/SMS upon successful registration. | | |

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| User story No: 2 | Tasks: 3 | Priority: High |
| Value statement:  As a registered user,  I want to log in to my account,  so that I can access my dashboard and place orders. | | |
| BV: 500 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to log in using their email and password. 2. The system should validate credentials before granting access. | | |

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| User story No: 3 | Tasks: 3 | Priority: High |
| Value statement:  As a user,  I want to browse available products,  so that I can select and purchase items | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Users should see a list of products with images and descriptions. 2. Users should be able to search and filter products based on categories. | | |

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| User story No: 4 | Tasks: 2 | Priority: High |
| Value statement:  As a user,  I want to view detailed information of a product,  so that I can make an informed purchasing decision. | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to view full product details. 2. User reviews and ratings should be visible on the product page. | | |

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| User story No: 5 | Tasks: 2 | Priority: High |
| Value statement:  As a user,  I want to add products to my cart,  so that I can purchase multiple items in one order. | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   * 1. Users should be able to add and remove products from the cart.   2. The cart should display the total cost of selected items. | | |

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| User story No: 6 | Tasks: 2 | Priority: Medium |
| Value statement:  As a customer,  I want to apply discount coupons,  so that I can reduce the total price of my order. | | |
| BV: 200 | CP: 5 | |
| Acceptance criteria:   1. Users should be able to enter coupon codes at checkout. 2. The discount should be applied only to eligible items. | | |

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| User story No: 7 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to pay for my order using Cash on Delivery,  so that I can purchase items without online transactions. | | |
| BV: 500 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to select "Cash on Delivery" at checkout. 2. The system should validate if COD is available for the delivery location. | | |

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| User story No: 8 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to track my order status,  so that I can know when to expect delivery. | | |
| BV: 500 | CP: 10 | |
| Acceptance criteria:   1. Users should see real-time order status (e.g., "Shipped", "Out for Delivery"). 2. Tracking details should be fetched from the logistics provider. | | |

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| User story No: 9 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to chat with support agents,  so that I can resolve my queries quickly. | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Users should be able to start a live chat with support representatives. 2. A chatbot should provide automated responses for common queries. | | |

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| User story No: 10 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to rate and review products,  so that I can help others make informed decisions. | | |
| BV: 500 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to leave reviews after making a purchase. 2. Reviews should be visible to other users on the product page. | | |

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| User story No: 11 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to receive an invoice for my order,  so that I can keep a record of my purchase. | | |
| BV: 500 | CP: 10 | |
| Acceptance criteria:   1. The system should generate an invoice after every successful order. 2. Users should be able to download the invoice in PDF format. | | |

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| User story No: 12 | Tasks: 2 | Priority: Medium |
| Value statement:  As a customer,  I want to download my past order details,  so that I can track my purchases over time. | | |
| BV: 200 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to export their order history in CSV/PDF format. 2. Filters should allow selection of order date range. | | |

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| User story No: 13 | Tasks: 3 | Priority: High |
| Value statement:  As a user,  I want to refer my friends to the platform,  so that I can earn rewards for every successful referral. | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Users should receive a unique referral link to share. 2. Rewards should be automatically credited upon successful referral completion. | | |

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| User story No: 14 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to receive order updates via email/SMS,  so that I can stayinformed about my purchases. | | |
| BV: 500 | CP: 10 | |
| Acceptance criteria:   1. Users should receive notifications for order confirmation, dispatch, and delivery. 2. Users should have an option to manage notification preferences. | | |

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| User story No: 15 | Tasks: 2 | Priority: High |
| Value statement:  As a loyal customer,  I want to earn reward points on my purchases,  so that I can redeem them for discounts on future orders. | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Users should earn points based on their purchase value. 2. Points should be redeemable at checkout. | | |

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| User story No: 16 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to buy products from different vendors,  so that I can choose from a wider variety. | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   1. Vendors should have their own product listing and management dashboard. 2. Users should be able to browse vendor-specific products | | |

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| User story No: 17 | Tasks: 3 | Priority: Medium |
| Value statement:  As a customer,  I want to schedule my orders for future delivery,  so that I can receive them at a convenient time. | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to select a preferred delivery date/time. 2. The system should process the order automatically on the scheduled date. | | |

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| User story No: 18 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to receive notifications when a product is back in stock,  so that I can purchase it as soon as it becomes available. | | |
| BV: 500 | CP: 10 | |
| Acceptance criteria:   1. Users should be able to subscribe to stock alerts. 2. The system should send notifications once the item is restocked. | | |

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| User story No: 19 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to see product recommendations based on my interests,  so that I can discover relevant items quickly. | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   1. Users should see a personalized "Recommended for You" section. 2. Recommendations should be based on user preferences and past purchases. | | |

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| User story No: 20 | Tasks: 3 | Priority: High |
| Value statement:  As a mobile user,  I want to shop using a mobile application,  so that I can browse and place orders conveniently on my phone. | | |
| BV: 500 | CP: 40 | |
| Acceptance criteria:   * 1. The mobile app should have the same features as the web platform.   2. User data (cart, order history) should be synchronized across devices | | |

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| User story No: 21 | Tasks: 2 | Priority: Medium |
| Value statement:  As a user,  I want to enable dark mode,  so that I can browse the app comfortably in low-light conditions. | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to switch between light and dark modes. 2. The app should remember the user’s preference. | | |

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| User story No: 22 | Tasks: 2 | Priority: Medium |
| Value statement:  As a user,  I want to enable dark mode,  so that I can browse the app comfortably in low-light conditions. | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to switch between light and dark modes. 2. The app should remember the user’s preference. | | |

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| User story No: 23 | Tasks: 2 | Priority:  High |
| Value statement:  As a customer,  I want to track my order on a live map,  so that I can know exactly when it will be delivered. | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   1. Users should see the real-time location of their order. 2. Estimated delivery time should update dynamically. | | |

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| User story No: 24 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to subscribe to products I buy regularly,  so that I can receive them automatically without placing a new order. | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   * 1. Users should be able to set up subscriptions for selected products.   2. The system should automatically generate orders on the chosen schedule. | | |

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| User story No: 25 | Tasks: 2 | Priority:  High |
| Value statement:  As an admin,  I want to manage and update customer orders,  so that I can ensure timely order processing and issue resolution | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   1. Admins should be able to search, filter, and modify orders. 2. Orders should be categorized by status (pending, shipped, delivered). | | |

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| User story No: 26 | Tasks: 2 | Priority: Medium |
| Value statement:  As a non-English-speaking user,  I want to use the application in my preferred language,  so that I can understand the content better. | | |
| BV: 100 | CP: 13 | |
| Acceptance criteria:   1. Users should be able to select their preferred language. 2. The system should display UI elements in the chosen language. | | |

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| User story No: 27 | Tasks: 2 | Priority: High |
| Value statement:  As a disabled user,  I want to access the platform with assistive technologies,  so that I can shop without any barriers. | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   * 1. The website should be compatible with screen readers.   2. Voice commands should allow navigation and product selection. | | |

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| User story No: 28 | Tasks: 2 | Priority: Medium |
| Value statement:  As a customer,  I want to compare multiple products,  so that I can choose the best one based on specifications. | | |
| BV: 100 | CP: 13 | |
| Acceptance criteria:   1. Users should be able to select and compare up to 3 products. 2. Comparison should display product specifications, prices, and reviews | | |

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| User story No: 29 | Tasks: 2 | Priority: High |
| Value statement:  As a wholesale buyer,  I want to get discounts on bulk purchases,  so that I can save money when ordering large quantities. | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   1. Users should see discounted prices when adding bulk quantities to the cart. 2. The system should apply discounts automatically based on quantity | | |

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| User story No: 30 | Tasks: 2 | Priority:  Medium |
| Value statement:  As a customer,  I want to add gift wrapping to my order,  so that I can send it as a present to someone. | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to select gift wrapping during checkout. 2. Personalized messages should be printed on a gift card. | | |

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| User story No: 31 | Tasks: 2 | Priority: High |
| Value statement:  As a user,  I want to see personalized product recommendations,  so that I can find relevant products more easily | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   * 1. User should see personalized product suggestions on the homepage.   2. Recommendations should be based on browsing history and previous orders. | | |

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| User story No: 32 | Tasks: 2 | Priority: Medium |
| Value statement:  As a user,  I want to save multiple addresses in my account,  so that I can easily select one during checkout | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to add, edit, and delete multiple addresses. 2. The system should remember the preferred address for future orders. | | |

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| User story No: 33 | Tasks: 2 | Priority:  High |
| Value statement:  As a customer,  I want to schedule my order for a specific date,  so that I can receive it at my convenience | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Users should be able to select a future delivery date. 2. The system should verify delivery availability for the chosen date | | |

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| User story No: 34 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to use the shopping platform on my mobile phone,  so that I can shop conveniently anytime, anywhere. | | |
| BV: 500 | CP: 40 | |
| Acceptance criteria:   1. The mobile app should have the same features as the website. 2. Users should be able to log in with the same credentials on both platforms | | |

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| User story No: 35 | Tasks: 2 | Priority: Medium |
| Value statement:  As a user,  I want to add items to my Wishlist,  so that I can purchase them later. | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to add and remove products from the wish list. 2. Wishlist items should be accessible from the user dashboard | | |

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| User story No: 36 | Tasks: 2 | Priority: Medium |
| Value statement:  As a customer,  I want to purchase and use gift cards,  so that I can give them to others or apply them to my orders | | |
| BV: 100 | CP: 13 | |
| Acceptance criteria:   1. Users should be able to buy, send, and redeem gift cards. 2. The system should apply discounts when a valid voucher is used | | |

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| User story No: 37 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to make secure payments,  so that I can shop online without worrying about fraud. | | |
| BV: 500 | CP: 20 | |
| Acceptance criteria:   1. Payment transactions should be encrypted and secure. 2. Users should receive a confirmation message after a successful payment. | | |

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| User story No: 38 | Tasks: 2 | Priority: Medium |
| Value statement:  As a new user,  I want to log in using my social media accounts,  so that I can sign up quickly without filling out forms | | |
| BV: 100 | CP: 8 | |
| Acceptance criteria:   1. Users should be able to log in with their social media accounts. 2. The system should auto-fill user details from the linked account. | | |

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| User story No: 39 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to request returns and refunds easily,  so that I can get my money back if I receive a defective product. | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Users should be able to initiate a return request within the allowed timeframe. 2. Refunds should be processed to the original payment method automatically. | | |

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| User story No: 40 | Tasks: 2 | Priority: High |
| Value statement:  As a customer,  I want to see and participate in flash sales,  so that I can buy products at discounted price | | |
| BV: 500 | CP: 13 | |
| Acceptance criteria:   1. Flash sale products should be available for a limited time. 2. Discounts should be applied automatically to eligible products. | | |

**Document 4: Agile PO Experience**

Agile Product Owner (PO) Experience

1. **Role and Responsibilities of a Product Owner**

The Product Owner (PO) plays a pivotal role in Agile development, ensuring that the team delivers maximum value. Responsibilities include:

* Defining and managing the product backlog.
* Prioritizing user stories based on Business Value (BV) and Complexity Points (CP).
* Collaborating with stakeholders, developers, and the Scrum team.
* Ensuring user stories are well-defined with clear acceptance criteria.
* Participating in sprint planning, reviews, and retrospectives.
* Making timely decisions on product increments and releases.
* Aligning product development with customer needs and business goals.

1. **Product Backlog Management**

To maintain a structured and effective backlog, the PO:

* Creates user stories with clear goals and measurable value.
* Assigns Business Value (BV) using Scrum currency denominations: ₹1000, ₹500, ₹100, ₹50, ₹20, ₹10.
* Assigns Complexity Points (CP) using Planning Poker: 1, 2, 3, 5, 8, 13, 20, 40, 100, BIG.
* Conducts backlog refinement sessions with the development team and stakeholders.
* Regularly removes outdated or irrelevant items from the backlog.

1. **Sprint Planning and Execution**

In sprint planning:

* The PO collaborates with the Scrum team to select high-priority user stories based on sprint capacity.
* Clarifies user stories and goals to developers.
* Ensures stories meet the Definition of Ready before inclusion in a sprint.
* Supports developers in breaking down complex stories into manageable tasks.

1. **User Story Definition and Acceptance Criteria**

User stories follow the format:  
"As a [user], I want to [goal], so that [benefit]."

Each story includes:

* BV and CP values for prioritization.
* Clearly defined acceptance criteria for development and testing guidance.

1. **Stakeholder Collaboration**

* Hosts regular stakeholder meetings for requirement gathering and feedback.
* Collaborates with developers to clarify and refine requirements.
* Aligns product development with market trends and end-user expectations.

1. **Sprint Review and Retrospective**

* Reviews completed work with stakeholders and gathers actionable feedback.
* Verifies sprint goals are met.
* Identifies improvement areas for team performance and workflow.
* Collaborates with the team to enhance the upcoming sprint’s efficiency.

1. **Agile Metrics and Reporting**

The PO actively tracks and reports on:

* Team velocity using burndown charts.
* Backlog health to ensure upcoming sprints are prepared.
* Analysis of completed vs. planned story points for accuracy and predictability.

1. **Continuous Improvement**

* Fosters a culture of innovation and learning.
* Conducts Agile workshops and training to promote best practices.
* Encourages retrospectives and feedback loops for iterative improvement.

1. **Challenges and Solutions**

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| **Challenges** | **Solutions** |
| Conflicting stakeholder priorities | Use MoSCoW prioritization to balance and align interests. |
| Frequently changing or unclear requirements | Maintain frequent backlog grooming and stakeholder engagement. |
| Limited development capacity | Prioritize MVP features and adjust sprint scope based on velocity. |
| Technical debt and backlog overload | Include technical tasks in sprints and ensure they are addressed timely. |

**Document 5: Product and sprint backlog and product and sprint burndown charts**

**Product Backlog:**

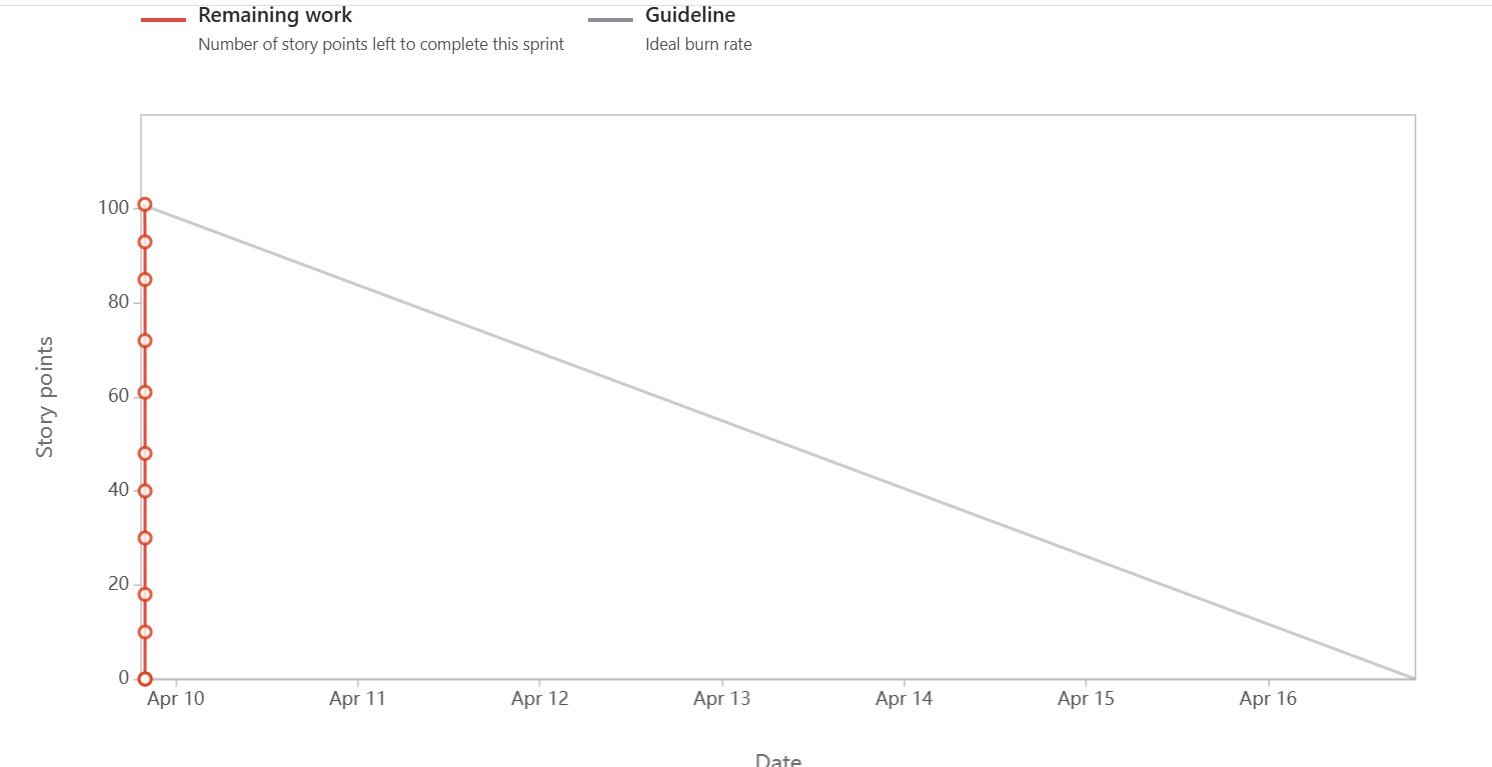
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| --- | --- | --- | --- | --- | --- | --- |
| **User Story ID** | **User Story** | **Tasks** | **Priority** | **BV** | **CP** | **Sprint** |
| 1 | User Registration | 2 | High | 500 | 8 | - |
| 2 | User Login | 3 | High | 500 | 8 | - |
| 3 | View Product List | 3 | High | 500 | 13 | - |
| 4 | View Product Details | 2 | High | 100 | 8 | - |
| 5 | Add to Cart | 2 | High | 500 | 13 | - |
| 6 | Apply Discount Coupons | 2 | Medium | 200 | 5 | - |
| 7 | Cash on Delivery Option | 2 | High | 500 | 8 | - |
| 8 | Order Tracking | 2 | High | 500 | 10 | - |
| 9 | Customer Support Chat | 2 | High | 500 | 13 | - |
| 10 | Product Reviews & Ratings | 2 | High | 500 | 8 | - |
| 11 | Invoice Generation | 2 | High | 500 | 10 | - |
| 12 | Download Order History | 2 | Medium | 200 | 8 | - |
| 13 | Refer & Earn Program | 3 | High | 500 | 13 | - |
| 14 | Email & SMS Notifications | 2 | High | 500 | 10 | - |
| 15 | Loyalty Rewards System | 2 | High | 500 | 13 | - |
| 16 | Multi-Vendor Marketplace | 2 | High | 500 | 20 | - |
| 17 | Order Scheduling Feature | 3 | Medium | 100 | 8 | - |
| 18 | Out of Stock Alerts | 2 | High | 500 | 10 | - |
| 19 | Personalized Product Recommendations | 2 | High | 500 | 20 | - |
| 20 | Mobile App Integration | 3 | High | 500 | 40 | - |
| 21 | Dark Mode UI Option | 2 | Medium | 100 | 8 | - |
| 22 | AI Chatbot Support | 2 | Medium | 100 | 8 | - |
| 23 | Live Order Tracking Map | 2 | High | 500 | 20 | - |
| 24 | Subscription-Based Orders | 2 | High | 500 | 13 | - |
| 25 | Admin Panel for Order Management | 2 | High | 500 | 20 | - |
| 26 | Multi-Language Support | 2 | Medium | 100 | 13 | - |
| 27 | Accessibility Features for Disabled Users | 2 | High | 500 | 20 | - |
| 28 | Product Comparison Feature | 2 | Medium | 100 | 13 | - |
| 29 | Bulk Order Discounts | 2 | High | 500 | 20 | - |
| 30 | Gift Wrapping Option | 2 | Medium | 100 | 8 | - |
| 31 | Personalized Product Recommendations | 2 | High | 500 | 20 | - |
| 32 | Multiple Address Support | 2 | Medium | 100 | 8 | - |
| 33 | Order Scheduling Feature | 2 | High | 500 | 13 | - |
| 34 | Mobile App Integration | 2 | High | 500 | 40 | - |
| 35 | Wishlist Feature | 2 | Medium | 100 | 8 | - |
| 36 | Gift Cards & Vouchers | 2 | Medium | 100 | 13 | - |
| 37 | Secure Payment Gateway Integration | 2 | High | 500 | 20 | - |
| 38 | Social Media Login | 2 | Medium | 100 | 8 | - |
| 39 | Return & Refund Process | 2 | High | 500 | 13 | - |
| 40 | Limited-Time Flash Sales | 2 | High | 500 | 13 | - |

**Sprint Backlog:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Story ID** | **User Story** | **Tasks** | **Owner** | **Status** | **Estimated Effort**  **(CP)** |
| 1 | User Registration | 2 | Developer | In Progress | 8 |
| 2 | User Login | 3 | Developer | In Progress | 8 |
| 3 | View Product List | 3 | Developer | Not Started | 13 |
| 4 | View Product Details | 2 | Developer | Not Started | 8 |
| 5 | Add to Cart | 2 | Developer | Not Started | 13 |
| 6 | Cash on Delivery Option | 2 | Developer | Not Started | 8 |
| 7 | Order Tracking | 2 | Developer | Not Started | 10 |
| 8 | Customer Support Chat | 2 | Developer | Not Started | 13 |
| 9 | Product Reviews & Ratings | 2 | Developer | Not Started | 8 |
| 10 | Invoice Generation | 2 | Developer | Not Started | 10 |

**Product Burndown Chart:**

**Sprint Burndown Chart:**



**Document 6: Sprint meetings**

**Meeting Type 1: Sprint Planning meeting**

|  |  |
| --- | --- |
| **Date** | 01/01/2025 |
| **Time** | 12:00 AM |
| **Location** | Conference Hall |
| **Prepared By** | Scrum Master / Product Owner |
| **Attendees** | Product Owner, Scrum Master, Development Team, QA Team |

**Agenda Topics**

|  |  |  |
| --- | --- | --- |
| **Topic** | **Presenter** | **Time Allotted** |
| Sprint Goals Review | Product Owner | 15 mins |
| Backlog Prioritization | Scrum Master | 20 mins |
| Task Breakdown | Development Team | 30 mins |
| QA & Testing Strategy | QA Lead | 15 mins |
| Sprint Capacity Planning | Scrum Master | 15 mins |

**Other Information**

|  |  |
| --- | --- |
| **Observers** | Product Owner (to clarify backlog items) |
| **Resources** | Jira, Balsamiq, Visio |
| **Special Notes** | Ensure all dependencies are resolved before the sprint begins. |

**Meeting Type 2: Sprint review meeting**

|  |  |
| --- | --- |
| **Date** | 30/01/2025 |
| **Time** | 12:00 AM |
| **Location** | Conference Hall |
| **Prepared By** | Scrum Master / Product Owner |
| **Attendees** | Scrum Master, Product Owner, Development Team, Stakeholders (Clients, Management, End Users) |

**Sprint Status:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint status** | **Things to demo** | **Quick updates** | **What’s next** |
| Sprint 1 Completed | User Registration, Login, Order Placement | Customer registration and login functionalities are working. Minor UI improvements suggested. | Next sprint will focus on Order Tracking and Secure Data Storage |

**Meeting Type 3: Sprint Retrospective Meeting**

|  |  |
| --- | --- |
| **Date** | 1/02/2025 |
| **Time** | 12:00 AM |
| **Location** | Conference Hall |
| **Prepared By** | Scrum Master |
| **Attendees** | Scrum Master, Development Team, Sometimes Product Owner |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Agenda** | **What Went Well** | **What Didn’t Go Well** | **Questions** | **Reference** |
| User Login System | Implemented Secure Authentication | Delayed due to API issues | How to improve API response time? | Backend Documentation |
| Product Page UI | Optimized for mobile devices | Design inconsistencies | Should we test on multiple devices? | UI Guidelines |
| Payment Module | Successful Transactions | Some payment failures | How to handle failed payments better? | Payment API Docs |

**Meeting Type 4: Daily Stand-up Meeting**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Name/Role** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** | **Sunday** |
| **What did you do yesterday?** | Developer 1 | Worked on Login API | Fixed UI issues | Reviewed code | Integrated with DB | Tested login | N/A | N/A |
|  | Developer 2 | Setup Product DB | Created Product Filters | Updated UI | Implemented Search | Performance optimization | N/A | N/A |
|  | Developer 3 | Integrated Payment API | Debugged payment issues | Tested transactions | Fixed checkout errors | Deployed fixes | N/A | N/A |
| **What will you do today?** | Developer 1 | Debug session handling | Improve password recovery | API performance tuning | Review security logs | Finalize auth testing | N/A | N/A |
|  | Developer 2 | Optimize queries | Implement sorting features | Finalize category filters | Test UI responsiveness | Deploy changes | N/A | N/A |
|  | Developer 3 | Test refund system | Enhance payment logging | Ensure PCI compliance | Final testing | Submit for review | N/A | N/A |
| **What is blocking your progress?** | Developer 1 | API response delays | N/A | Server issues | N/A | N/A | N/A | N/A |
|  | Developer 2 | UI inconsistencies | Awaiting design approval | N/A | N/A | N/A | N/A | N/A |
|  | Developer 3 | Payment provider downtime | N/A | N/A | N/A | N/A | N/A | N/A |