**Assignment 1: Difference between scrum vs Kanban.**

**Scrum:**

* Works in fixed-length iterations called Sprints, typically lasting 2-4 weeks.
* Has specific roles: Product Owner, Scrum Master, and Development Team.
* Uses time-boxed events like Daily Stand-Up, Sprint Review, and Sprint Retrospective.
* Focuses on delivering potentially shippable product increments at the end of each Sprint.

**Kanban:**

* Focuses on continuous delivery and does not have fixed iterations.
* Does not prescribe specific roles; the team may be cross-functional.
* Uses a Kanban board to visualize work and limit work in progress (WIP).
* Emphasizes workflow optimization and reducing time to deliver features.

**Assignment 2: write 3 user stories with acceptance criteria.**

1. **User Story:** As a project manager, I want to create new projects so that I can track progress on different initiatives.

**Acceptance Criteria:**

* The system allows the creation of a new project with a unique name.
* The project manager can set a start and end date for the project.
* The system allows the addition of team members to the project.

1. **User Story:** As an online shopper, I want to filter products by price range so that I can find items within my budget.

**Acceptance Criteria:**

* The system displays filter options on the products page.
* Shoppers can select a minimum and maximum price range.
* The system updates the product list to only show items within the selected price range.
* The price filter should be easy to use on both desktop and mobile devices.

1. **User Story:** As a team member, I want to update my tasks’ status so that the team can see my progress.

**Acceptance Criteria:**

* The system displays all tasks assigned to the team member.
* Team members can change the status of tasks (e.g., To Do, In Progress, Done).
* The system updates the project progress in real-time as tasks’ statuses are changed.

**Assignment 3: write product backlog and backlog for your project.**

**Product Backlog:**

* User account creation and management.
* Search functionality for flights by destination, date, and class.
* Flight booking process.
* Payment processing system.
* Booking confirmation and e-ticket generation.
* Online check-in and seat selection.
* Flight status updates and notifications.
* Cancellation and refund process.
* Loyalty program integration.
* Multilingual support for global users.

**Sprint Backlog (for Sprint 1):**

**User Story:** As a traveller, I want to create an account so that I can manage my bookings and receive personalized offers.

**Task 1:**

* Design the user registration interface.
* Develop the backend logic for account creation.
* Implement email verification for new accounts.
* Test the complete registration flow.

**User Story:** As a traveller, I want to search for flights by destination and date so that I can plan my trip.

**Task 2:**

* Create the search interface with filters for destination and date.
* Set up the backend service to fetch available flights.
* Integrate the search functionality with real-time data.
* Conduct usability testing for the search feature.

**User Story:** As a traveller, I want to book a flight so that I can secure my travel plans.

**Task 3:**

* Design the booking process UI, including seat selection.
* Implement the booking logic with validation checks.
* Connect the booking system with payment processing.
* Test the booking process with different scenarios.