

**Assignment:** write product backlog and backlog for online movie ticket booking

Here are examples of a Product Backlog and a Sprint Backlog for an online movie ticket booking system:

## **Product Backlog for Online Movie Ticket Booking System:**

### **1. User Registration and Authentication**

- As a user, I want to register and login securely so that I can book movie tickets and manage my account.
- **Acceptance Criteria:**
  - Users can create an account with username, email, and password.
  - Authentication ensures secure login and session management.
  - Users can recover passwords through email verification.

### **2. Movie Listings and Booking**

- As a user, I want to view movie listings, showtimes, and book tickets for desired movies.
- **Acceptance Criteria:**
  - Display a list of movies with details (title, synopsis, poster, genre).
  - Show available showtimes and theatres for each movie.
  - Allow users to select seats and book tickets for chosen showtimes.

### **3. Payment Gateway Integration**

- As a user, I want to make secure payments online for booked movie tickets.
- **Acceptance Criteria:**
  - Integrate with a payment gateway (e.g., PayPal, Stripe) for transactions.
  - Provide options for payment methods (credit/debit cards, digital wallets).
  - Ensure payment processing is secure and compliant with industry standards.

### **4. User Profile and Preferences**

- As a user, I want to manage my profile, preferences, and view booking history.
- **Acceptance Criteria:**
  - Allow users to update profile information (name, contact details).

- Provide options to set preferences (favourite genres, notification settings).
- Display booking history with details of past and upcoming movie bookings.

## 5. Admin Dashboard for Theatre Management

- As an admin, I want to manage theatres, movie schedules, and view booking analytics.
- **Acceptance Criteria:**
  - Admin dashboard to add/edit/delete theatres and movie showtimes.
  - Analytics dashboard to track ticket sales, popular movies, and revenue.
  - Alerts for low ticket availability or scheduling conflicts.

## Sprint Backlog (Example for Sprint 1):

**Sprint Goal:** Implement basic user registration and authentication features.

### 1. Task 1: Setup User Registration Form

- Create UI for user registration form with fields: username, email, password.
- Validate form inputs and handle errors.

### 2. Task 2: Implement User Authentication

- Develop backend logic for user authentication (login/logout).
- Implement secure password storage and session management.

### 3. Task 3: Email Verification

- Integrate email verification for user registration and password reset.
- Send verification emails with unique tokens and expiry.

### 4. Task 4: Unit Testing and Integration

- Write unit tests for registration, authentication, and email verification functionalities.
- Integrate frontend with backend APIs for registration and login.

## Sprint Review and Retrospective:

- Demonstrate completed registration and authentication features.
- Gather feedback on usability and performance.
- Discuss improvements and plan next sprint tasks based on feedback and priorities.

