

Assignment-1

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Assignment 1: Agile Project Planning - Create a one-page project plan for a new software feature using Agile planning techniques. Include backlog items with estimated story points and a prioritized list of user stories.

Agile Project Plan: Bus Ticket Booking Feature (Product Backlog Items)

| Backlog Item | Description | Priority | Story Points |
|-----------------------------|--|----------|--------------|
| User Authentication | As a user, I want to log in or register so that I can access my account. | High | 3 |
| Search Bus Routes | As a user, I want to search for available buses by route and date. | High | 5 |
| Select Seats | As a user, I want to view and select available seats on a bus. | High | 8 |
| Booking Confirmation | As a user, I want to receive a booking confirmation with ticket details. | High | 5 |
| Payment Gateway Integration | As a user, I want to pay for my ticket securely. | Medium | 8 |
| View Booking History | As a user, I want to see my past and upcoming bookings. | Medium | 5 |
| Cancel Booking | As a user, I want to cancel my booking and receive a refund. | Low | 5 |
| Bus Operator Management | As an admin, I want to manage bus schedules, routes, and seat availability. | High | 8 |
| Notifications | As a user, I want to receive notifications for booking updates or cancellations. | Medium | 3 |
| Multilingual Support | As a user, I want the platform available in multiple languages. | Low | 3 |

Sprint Plan

Each sprint is **2 weeks long**, and the **team velocity** is 20 story points per sprint.

| Sprint | Backlog Items | Total Story Points |
|----------|--|--------------------|
| Sprint 1 | User Authentication, Search Bus Routes, Select Seats | 16 |
| Sprint 2 | Booking Confirmation, Payment Gateway Integration | 13 |
| Sprint 3 | View Booking History, Cancel Booking, Notifications | 13 |
| Sprint 4 | Bus Operator Management, Multilingual Support | 11 |

Prioritized List of User Stories

1. As a user, I want to log in or register so that I can access my account. (User Authentication - 3 SP)
2. As a user, I want to search for available buses by route and date. (Search Bus Routes - 5 SP)
3. As a user, I want to view and select available seats on a bus. (Select Seats - 8 SP)
4. As a user, I want to receive a booking confirmation with ticket details. (Booking Confirmation - 5 SP)
5. As a user, I want to pay for my ticket securely. (Payment Gateway Integration - 8 SP)