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.

Project Plan: Movie Ticket Booking System Feature

Project Goal: Implement a new software feature for the movie ticket booking system to enhance user experience and functionality.

Sprint Duration: 2 weeks

Sprint Goal: Complete high-priority user stories related to user authentication, movie search, seat selection, payment processing, and booking confirmation.

Backlog Items with Estimated Story Points:

1. User Authentication (5 Story Points)

- User Story ID: US001
- As a user, I want to log in to my account.

2. Movie Search (3 Story Points)

- User Story ID: US002
- As a user, I want to search for movies.

3. Seat Selection (8 Story Points)

- User Story ID: US004
- As a user, I want to select seats.

4. Payment Processing (6 Story Points)

- User Story ID: US007
- As a user, I want to make a payment.

5. Booking Confirmation (4 Story Points)

- User Story ID: US008
- As a user, I want to receive a booking confirmation.

Prioritized List of User Stories for Sprint 1:

1. User Authentication (5 Story Points)
2. Movie Search (3 Story Points)
3. Booking Confirmation (4 Story Points)

Sprint 1 Goals:

- Implement user authentication functionality.
- Develop movie search feature.
- Implement booking confirmation for successful transactions.

Sprint 1 Timeline:

- Day 1-3: User Authentication
- Day 4-6: Movie Search
- Day 7-9: Booking Confirmation
- Day 10-11: Testing and Bug Fixes
- Day 12-14: Sprint Review and Retrospective

Scrum Team Assignments for Sprint 1:

- User Authentication: Team A
- Movie Search: Team B
- Booking Confirmation: Team A

Key Risks and Mitigation Strategies:

- **High risk:** Integration issues between authentication and booking systems.
- **Mitigation:** Conduct thorough integration testing and have a rollback plan.
- **Medium risk:** Performance issues with movie search feature due to large database queries.
- **Mitigation:** Optimize database queries and perform load testing.
- **Low risk:** User interface inconsistencies in booking confirmation.
- **Mitigation:** Regular design reviews and user acceptance testing.

Next Steps:

- Sprint 1 Kick off Meeting: Day 1
- Daily Standups: Every morning
- Mid-Sprint Review: Day 7
- Sprint Review and Retrospective: Day 14