

DAY 4:

ASSIGNMENT 1:

Q) Assignment 1: Agile Project Planning- Create a one-page project plan for a new software feature using Agile planning techniques. Include backlog item 1. Address a common challenge and incorporate a solution into the communication flow.

ANS:

Project Name: Implement Real-Time Chat Feature

Project Vision: Enhance user engagement and communication within the platform by implementing a real-time chat feature, enabling users to interact seamlessly.

Project Objective:

- Improve user experience by providing a convenient and efficient means of communication.
- Increase user retention and platform usage by offering real-time communication capabilities.

Key Stakeholders:

- Product Owner: [Name]
- Development Team: [Team Members]
- Users: [Target Audience]

Backlog Items:

1. ***User Story:*** As a user, I want to be able to send text messages to other users in real-time.
 - ***Story Points:*** 5
2. ***User Story:*** As a user, I want to receive notifications for new messages while I'm online.
 - ***Story Points:*** 3

3. *User Story:* As a user, I want to see online status indicators for other users.

- *Story Points:* 2

4. *User Story:* As a user, I want to be able to send emojis and multimedia files in chat messages.

- *Story Points:* 8

5. *User Story:* As a user, I want to have the option to create group chats with multiple participants.

- *Story Points:* 13

6. *User Story:* As a user, I want to be able to search for previous chat messages.

- *Story Points:* 5

7. *User Story:* As a user, I want to have control over my chat privacy settings.

- *Story Points:* 5

Prioritized User Stories:

1. Implement real-time text messaging (5 SP)
2. Send emojis and multimedia files (8 SP)
3. Create group chats (13 SP)
4. Search for previous chat messages (5 SP)
5. Receive notifications for new messages (3 SP)
6. See online status indicators (2 SP)
7. Control chat privacy settings (5 SP)

Notes:

- Prioritization is based on user value and complexity.
- Story points reflect the estimated effort required for each user story.
- Continuous feedback and iteration will be used to refine the feature based on user feedback and changing requirements.

Addressing Common Challenge:

Challenge: Integrating real-time chat functionality with existing platform architecture may pose technical complexities and potential performance issues.

Solution: To address this challenge, the development team will hold a dedicated technical planning session where they'll discuss potential integration approaches, evaluate the impact on performance, and identify any necessary infrastructure upgrades or optimizations. Regular communication between the development team and system architects will ensure that any architectural changes required to support real-time chat are implemented efficiently.

Additionally, conducting thorough testing, including load testing, will help identify and mitigate any performance bottlenecks before deployment. Regular updates on the progress and any adjustments made during the technical planning phase will be communicated

transparently to the stakeholders to maintain alignment and manage expectations.