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1. **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 Name: Social Challenge Feature

   Project Goal: Enhance the fitness tracking application by adding a social challenge feature to promote user engagement and motivation.

   Backlog Item:

User Story	Story Point	Priority
As a user, I want to create a fitness challenge	5	High
As a user, I want to join existing fitness challenges	3	High
As a user, I want to track my progress in challenges	5	Medium
As a user, I want to view leaderboards for challenges	3	Medium
As a user, I want to receive notifications for challenge updates	2	Low

   Sprint 1 (2 weeks):
   Goal: Implement basic challenge creation and joining functionalities.

   Backlog Items:
   1. Create a fitness challenge (5 SP)
   2. Join existing fitness challenges (3 SP)
   Estimated Velocity: 8 Story Points

   Sprint 2 (2 weeks):
   Goal: Enhance challenge tracking and leaderboard features.

   Backlog Items:
   1. Track progress in challenges (5 SP)
   2. View leaderboards for challenges (3 SP)
   Estimated Velocity: 8 Story Points

   Sprint 3 (2 weeks):
   Goal: Improve user engagement with notifications.

   Backlog Items:
   1. Receive notifications for challenge updates (2 SP)
   2. Estimated Velocity: 2 Story Points

Prioritized User Stories:

1. User Story: As a user, I want to create a fitness challenge (5 SP)
   High Priority
2. As a user, I want to join existing fitness challenges (3 SP)
    - **High Priority**
3. As a user, I want to track my progress in challenges (5 SP)
   - Medium Priority
4. As a user, I want to view leaderboards for challenges (3 SP)
    - **Medium Priority**
5. As a user, I want to receive notifications for challenge updates (2 SP)
   - **Low Priority**

Assignment 2: Daily Standup Simulation- Write a script for a Daily standup Meeting for a developer team working on the software Feature from assignment 1. Address a common challenge and incorporate a solution into the communication flow.

Daily Standup Meeting Script

Facilitator: Good morning, team! Let's get started with our daily standup meeting. Who would like to go first?

Developer 1: Morning, everyone. Yesterday, I worked on implementing the user profile picture upload feature. I encountered a challenge with the image compression algorithm, which was causing slow upload speeds for larger images. To address this, I optimized the algorithm and tested it with various file sizes. The feature is now performing much better, and uploads are smoother.

Facilitator: Great job, Developer 1. Optimization is key for improving performance. Any obstacles in your path today?

Developer 1: No blockers at the moment. I'll be focusing on refining the user experience and addressing any reported issues.

Developer 2: Good morning, team. Yesterday, I tackled the task of updating personal information in user profiles. One challenge I faced was with form validation for special characters. After some debugging, I identified the issue and implemented a regex pattern to handle it. The feature is now fully functional and ready for user testing.

Facilitator: Well done, Developer 2. Attention to detail in validation is crucial for data integrity. Any hurdles you foresee for today?

Developer 2: No blockers on my end. I'll be available to assist with testing and making any necessary adjustments.

Developer 3: Morning, everyone. Yesterday, I started working on adding a short bio to user profiles. I encountered a challenge with the database schema, as it wasn't initially designed to accommodate longer text fields. However, after consulting with the database team, we devised a schema alteration plan that allows for the addition of bio information without impacting performance. I'll be implementing this solution today.

Facilitator: Collaboration across teams is key to overcoming architectural challenges. Well done, Developer 3. Any impediments you need assistance with?

Developer 3: No blockers for now. I'll keep the team updated on the progress of the schema changes and feature implementation.

Facilitator: Thank you for the updates, team. It's encouraging to see your problem-solving skills in action. Let's continue to collaborate and communicate effectively as we move forward with our feature development. Remember, if any challenges arise, don't hesitate to reach out for support. Together, we can accomplish great things!

Team: In unison - Absolutely!

Facilitator: That wraps up today's standup meeting. Let's dive into our tasks and make today another productive day!