

Agile Methodologies and Effective Communication

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: Enhanced User Profile Management

1. Feature Overview

The Enhanced User Profile Management feature aims to improve the user experience by providing advanced profile customization options, better security settings, and integrated social media linking.

2. Backlog Items and Story Points

User Story 1: As a user, I want to update my profile picture so that I can personalize my account. (3 story points)

User Story 2: As a user, I want to link my social media accounts to my profile so that I can share my activity. (5 story points)

User Story 3: As a user, I want to update my contact information so that my profile remains current. (2 story points)

User Story 4: As a user, I want to change my password to improve my account security. (3 story points)

User Story 5: As a user, I want to enable two-factor authentication (2FA) for enhanced security. (8 story points)

User Story 6: As an admin, I want to view user profile update logs so that I can monitor changes for security purposes. (5 story points)

User Story 7: As a user, I want to receive email notifications for profile changes to stay informed. (3 story points)

User Story 8: As a user, I want to have a customizable bio section to express more about myself. (2 story points)

User Story 9: As a user, I want to hide certain profile details from public view for privacy. (5 story points)

User Story 10: As a user, I want to have a user-friendly interface for profile management to easily navigate and update my profile. (8 story points)

3. Prioritized List of User Stories

User Story 1: Update profile picture (3 story points)

User Story 2: Link social media accounts (5 story points)

User Story 4: Change password (3 story points)

User Story 5: Enable two-factor authentication (8 story points)

User Story 3: Update contact information (2 story points)

User Story 7: Email notifications for profile changes (3 story points)

User Story 10: User-friendly interface for profile management (8 story points)

User Story 9: Hide profile details from public view (5 story points)

User Story 8: Customizable bio section (2 story points)

User Story 6: Admin view of profile update logs (5 story points)

4. Sprint Planning

Based on a two-week sprint cycle and a team velocity of 20 story points per sprint, the plan for the first few sprints is as follows:

Sprint 1:

User Story 1: Update profile picture (3 story points)

User Story 4: Change password (3 story points)

User Story 3: Update contact information (2 story points)

User Story 2: Link social media accounts (5 story points)

User Story 7: Email notifications for profile changes (3 story points)

Total: 16 story points

Sprint 2:

User Story 5: Enable two-factor authentication (8 story points)

User Story 10: User-friendly interface for profile management (8 story points)

User Story 8: Customizable bio section (2 story points)

Total: 18 story points

Sprint 3:

User Story 9: Hide profile details from public view (5 story points)

User Story 6: Admin view of profile update logs (5 story points)

Remaining items from Sprint 2 (if any)

Total: 10 story points (plus any carryover from Sprint 2)

5. Key Milestones

Sprint 1 Completion: Basic profile management features and notifications.

Sprint 2 Completion: Enhanced security features and improved user interface.

Sprint 3 Completion: Privacy controls and administrative monitoring capabilities.

6. Acceptance Criteria

Each user story will include specific acceptance criteria defined during backlog refinement sessions to ensure clear, testable outcomes. The criteria will focus on functionality, usability, and security.

7. Stakeholder Communication

Weekly Updates: Progress reports shared with stakeholders.

Sprint Reviews: Demonstrations of completed features at the end of each sprint.

Feedback Loop: Continuous feedback integration from stakeholders to refine and improve features.

8. Risk Management

Scope Creep: Regular backlog grooming to prioritize and refine user stories.

Technical Challenges: Daily stand-ups to identify and address blockers promptly.

Resource Constraints: Adjust sprint goals based on team velocity and capacity.

Assignment-2

Daily Standup Simulation - Write a script for a Daily Standup meeting for a development team working on the software feature from Assignment 1. Address a common challenge and incorporate a solution into the communication flow.

Participants:

Scrum Master (Sam)

Developer 1 (Alex)

Developer 2 (Jamie)

QA Tester (Pat)

Product Owner (Taylor)

Scrum Master (Sam):

"Good morning, team! Let's start our daily standup. Remember to keep it brief: what you did yesterday, what you'll do today, and any blockers you have. Let's begin with Alex."

Developer 1 (Alex):

"Good morning! Yesterday, I finished implementing the profile picture update functionality and started working on the backend for the social media linking feature. Today, I plan to continue with the social media linking integration. I'm having some issues with the API rate limits, which is slowing down my progress."

Scrum Master (Sam):

"Thanks, Alex. Noted on the API rate limit issue. We'll come back to that in a moment. Jamie, you're up next."

Developer 2 (Jamie):

"Morning, everyone! Yesterday, I completed the password change feature and started on the two-factor authentication (2FA) implementation. Today, I'll focus on finishing 2FA. No blockers from my side."

Scrum Master (Sam):

"Great, Jamie. Thanks. Pat, your turn."

QA Tester (Pat):

"Good morning! Yesterday, I tested the profile picture update feature, and it looks good. Today, I'll start testing the password change feature. I don't have any blockers right now."

Scrum Master (Sam):

"Thanks, Pat. Taylor, do you have any updates or concerns from the product side?"

Product Owner (Taylor):

"Morning, team. No major updates from my end, but I did receive feedback from users that they really appreciate the profile picture update feature. Looking forward to seeing the other features roll out."

Scrum Master (Sam):

"Excellent, thanks, Taylor. Now, back to Alex's blocker. Alex, can you elaborate a bit on the API rate limit issue?"

Developer 1 (Alex):

"Sure. The social media API limits the number of requests we can make per hour, which is causing delays in testing and integration. We need to find a way to optimize our requests or perhaps mock the API responses for now."

Scrum Master (Sam):

"Understood. Jamie, you have experience with API optimizations. Can you assist Alex in figuring out a way to reduce the number of API calls or set up a mock server?"

Developer 2 (Jamie):

"Absolutely, Sam. Alex, let's sync up after this standup. I can help set up a mock server for testing and look into optimizing the API calls."

Developer 1 (Alex):

"That would be great. Thanks, Jamie!"

Scrum Master (Sam):

"Perfect. Anything else from anyone? No? Alright, let's wrap this up. Remember to update your status on the board and reach out if you encounter any new issues. Have a productive day, team!"

Summary of Standup:

Alex is working on social media linking and facing API rate limit issues.

Jamie is working on 2FA and will help Alex with the API problem.

Pat is testing the password change feature.

Taylor provided positive user feedback on the profile picture update.

Solution: Jamie will assist Alex in setting up a mock server and optimizing API calls.