

Assignment Day-4

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 for New Software Feature

Project Overview

- **Feature:** User Authentication System
- **Objective:** Implement a secure user authentication system including registration, login, password recovery, and two-factor authentication.

Product Backlog:

id	User story	Priority	Story Points
1	As a user, I want to register an account so that I can access the application.	High	8
2	As a user, I want to log in using my credentials so that I can access my personalized dashboard.	High	5
3	As a user, I want to recover my password in case I forget it so that I can regain access to my account.	Medium	3
4	As a user, I want to enable two-factor authentication for enhanced security	Medium	8
5	As a user, I want to update my profile information after logging in so that I can keep my details current.	Low	3
6	As an admin, I want to manage user accounts so that I can ensure proper access control.	Medium	5

Sprint Plan (2-Week Sprint)

Sprint Backlog

1.User Registration (Story 1)

Tasks:

- Design registration form (2 points)
- Implement form validation (2 points)
- Integrate with backend (2 points)
- Test and deploy (2 points)

2.User Login (Story 2)

Tasks:

- Design login form (1 point)
- Implement authentication logic (2 points)
- Integrate with backend (1 point)
- Test and deploy (1 point)

Prioritized User Stories for Sprint 1

- User Registration (8 points)
- As a user, I want to register an account so that I can access the application.
- User Login (5 points)
- As a user, I want to log in using my credentials so that I can access my personalized dashboard.
- User Story Details

Story 1: User Registration

Description: Implement a registration form where users can create a new account by providing their email, username, and password.

Acceptance Criteria:

- User can access the registration page.
- User can input email, username, and password.
- Form validation ensures all fields are correctly filled.
- Successful registration redirects user to a welcome page.

Story 2: User Login

Description: Implement a login form where users can enter their credentials to access their account.

Acceptance Criteria:

- User can access the login page.
- User can input their email and password.
- Authentication logic validates credentials.
- Successful login redirects user to their dashboard.

Release Plan

Release 1: Basic User Authentication

- User registration
- User login

Release 2: Enhanced Security and Account Management

- Password recovery
- Two-factor authentication
- Admin user management
- User profile updates
- Key Agile Practices

Daily Standups: Brief daily meetings to discuss progress, obstacles, and plans.

Sprint Planning: Define the sprint backlog and plan tasks for the upcoming sprint.

Sprint Review: Review completed work at the end of the sprint and gather feedback.

Sprint Retrospective: Reflect on the sprint to identify improvements for future sprints.

Backlog Refinement: Regularly update and prioritize the backlog based on stakeholder feedback and project progress.

Conclusion

This one-page Agile project plan provides a clear, concise roadmap for implementing the user authentication system, leveraging Agile techniques to ensure effective planning, prioritization, and execution. The plan includes prioritized user stories, estimated story points, and a detailed sprint backlog to guide the development process.

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.

let's break this down into two main parts: the project plan and the daily standup simulation script.

Part 1: One-Page Agile Project Plan

New Software Feature: User Profile Customization

Backlog Items:

1. User Authentication Module

- **Description:** Implement login, registration, and password reset functionalities.
- **Estimated Story Points:** 8

2. Profile Creation and Editing

- **Description:** Allow users to create and edit their profiles with personal information, profile picture, and preferences.
- **Estimated Story Points:** 13

3. User Preferences Management

- **Description:** Enable users to set and manage their preferences, including notification settings and privacy options.
- **Estimated Story Points:** 5

4. Profile Privacy Settings

- **Description:** Provide options for users to control the visibility of their profile information.
- **Estimated Story Points:** 8

5. Integration with social media

- **Description:** Allow users to link their profiles with social media accounts.
- **Estimated Story Points:** 8

Prioritized List of User Stories:

1. As a user, I want to register an account so that I can access personalized features.

- **Estimated Story Points:** 5

2.As a user, I want to log in to my account so that I can access my profile.

Estimated Story Points: 3

3.As a user, I want to reset my password so that I can regain access if I forget it.

Estimated Story Points: 2

4.As a user, I want to create and edit my profile so that I can update my personal information.

Estimated Story Points: 8

5.As a user, I want to manage my notification settings so that I can control how I receive updates.

Estimated Story Points: 3

6.As a user, I want to set privacy options for my profile so that I can control who sees my information.

Estimated Story Points: 5

7.As a user, I want to link my profile with my social media accounts so that I can share content easily.

Estimated Story Points: 8

Part 2: Daily Standup Simulation Script

Participants:

- **Scrum Master (SM)**
- **Developer 1 (Dev1)**
- **Developer 2 (Dev2)**
- **QA Tester (QA)**
- **Product Owner (PO)**

Script:

SM: Good morning, team. Let's start our daily standup. Please keep your updates concise and focused. We'll go around and each person will answer three questions: What did you do yesterday? What will you do today? Are there any blockers?

SM: I'll start. Yesterday, I facilitated the sprint planning meeting and helped resolve a few blockers related to the user authentication module. Today, I'll be working on refining the backlog and checking in with everyone on their progress. No blockers for me. Dev1, you're up next.

Dev1: Thanks, SM. Yesterday, I completed the registration functionality for the user authentication module. Today, I'll work on the login feature. I am facing an issue with integrating the authentication API. I might need some help from Dev2 on this.

SM: Noted, Dev1. Let's make sure we address that blocker right after the standup. Dev2, how about you?

Dev2: Yesterday, I was working on the backend for profile creation and editing. Today, I'll continue with the profile editing feature and start implementing validation for the input fields. I can help Dev1 with the API integration after my initial tasks.

SM: Great, thanks Dev2. QA, your turn.

QA: Yesterday, I tested the registration functionality that Dev1 completed. Today, I'll be testing the login feature once it's ready. No blockers from my side.

SM: Excellent, thanks QA. PO, any updates or concerns from your end?

PO: Yesterday, I reviewed the user stories and provided feedback on the profile privacy settings. Today, I'll be preparing for a stakeholder meeting to discuss the progress. No blockers, but I would like to address the prioritization of social media integration in our next sprint.

SM: Good to know, PO. We can discuss that during our backlog refinement session. Alright team, let's tackle Dev1's blocker right after this meeting. Is there anything else anyone wants to bring up?

All: No, that's all.

SM: Great. Thanks, everyone. Let's have a productive day!

In this standup script, a common challenge (integration issue with the authentication API) is addressed by ensuring that team members collaborate to resolve it promptly. The script reflects the core Agile concepts of communication, collaboration, and continuous improvement.