

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: **Enhanced User Authentication System**

Objective: Develop an improved user authentication system that includes two-factor authentication (2FA), social media login, and enhanced password recovery options to increase security and user convenience.

Product Backlog

1. **User Story: Implement Two-Factor Authentication (2FA)**

- **Description:** As a user, I want to enable 2FA for my account so that I can have an extra layer of security.
- **Acceptance Criteria:**
 - Users can opt-in to 2FA.
 - A code is sent to the user's phone or email.
 - Users must enter the code to complete login.
- **Story Points:** 8

2. **User Story: Add Social Media Login Options**

- **Description:** As a user, I want to log in using my social media accounts (Facebook, Google) so that I can access the site easily without creating a new account.

- **Acceptance Criteria:**

- Users can log in using Facebook or Google.

- Existing accounts can link to social media accounts.

- **Story Points:** 5

3. **User Story: Enhance Password Recovery Process**

- **Description:** As a user, I want a more secure and user-friendly password recovery process so that I can regain access to my account if I forget my password.

- **Acceptance Criteria:**

- Users can reset their passwords via email link or SMS.

- Security questions and CAPTCHA for additional verification.

- **Story Points:** 3

4. **User Story: Implement Password Strength Meter**

- **Description:** As a user, I want to see the strength of my password as I create it so that I can choose a secure password.

- **Acceptance Criteria:**

- Password strength is evaluated in real-time.

- Suggestions for creating a stronger password are provided.

- **Story Points:** 2

5. **User Story: Session Timeout and Re-authentication**

- **Description:** As a user, I want to be logged out after a period of inactivity and be prompted to re-authenticate so that my account remains secure.

- **Acceptance Criteria:**

- Automatic logout after 15 minutes of inactivity.

- Prompt for password upon re-authentication.

- **Story Points:** 3

Prioritized Backlog

1. **Implement Two-Factor Authentication (2FA)** (8 Story Points)
2. **Add Social Media Login Options** (5 Story Points)
3. **Enhance Password Recovery Process** (3 Story Points)
4. **Implement Password Strength Meter** (2 Story Points)
5. **Session Timeout and Re-authentication** (3 Story Points)

Sprint Plan

Sprint 1: (2 weeks)

- **Implement Two-Factor Authentication (2FA)** (8 Story Points)

Sprint 2: (2 weeks)

- **Add Social Media Login Options** (5 Story Points)

- **Enhance Password Recovery Process** (3 Story Points)

****Sprint 3: (1 week)****

- ****Implement Password Strength Meter**** (2 Story Points)
- ****Session Timeout and Re-authentication**** (3 Story Points)

Team Roles

- ****Product Owner:**** Jane Doe
- ****Scrum Master:**** John Smith
- ****Development Team:**** 3 Developers, 1 QA Engineer

Summary

This agile project plan focuses on improving the user authentication system with prioritized user stories and estimated story points. The plan is divided into three sprints, ensuring incremental and continuous delivery of valuable features. Each user story includes specific acceptance criteria to ensure clear objectives and deliverables.

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.

Here is a script for a Daily Standup meeting for a development team working on the software feature from Assignment 1, addressing a common challenge and incorporating a solution into the communication flow:

Daily Standup Meeting Script

Team Members Present:

- John, Software Engineer
- Sarah, Software Engineer
- Mike, QA Tester
- Emily, Product Manager
- David, Tech Lead

Agenda:

1. **Quick status updates** from each team member on what they worked on yesterday, what they plan to work on today, and any blockers
2. **Discuss a common challenge** the team is facing and propose a solution
3. **Wrap up** and set expectations for the day

Meeting Script:

Tech Lead (David): Alright, let's get started. As usual, let's go around the virtual room and give a quick 1-2 minute update on what you worked on yesterday, what you plan to do today, and if you have any blockers. John, let's start with you.

John: Yesterday I worked on implementing the login functionality for the new feature. I was able to get the basic login flow working and integrated with our authentication service. Today I plan to add error handling and validation to the login form. No blockers for me.

Sarah: Yesterday I started working on the user profile page for the feature. I got the basic layout and structure set up. Today I'll continue building

out the profile page functionality, like allowing users to update their name, email, and profile picture. I'm waiting on the final design specs from the designer, but I should be able to make progress without them.

****Mike****: For testing, yesterday I wrote some initial test cases for the login functionality that John is working on. Today I'll start executing those test cases as John completes the implementation. No blockers.

****Emily****: From a product perspective, yesterday I worked on finalizing the user stories and acceptance criteria for the feature. I also had a good discussion with the customer to clarify some requirements. Today I'll be working on the product roadmap and planning for the next sprint. No blockers.

****David****: Great updates everyone. Let's move on to the main topic I wanted to discuss. I know we've all been feeling a bit overwhelmed with the tight timeline for this feature. The customer is pushing hard to get it out the door quickly. I think we need to have an honest discussion about the risks of rushing and see if we can find a way to deliver value sooner while still maintaining quality.

****John****: I agree, the timeline is really aggressive. I'm worried that if we rush, we'll end up with a buggy product that doesn't meet the customer's expectations. We've seen that happen before.

****Sarah****: Definitely. I think we need to push back a bit on the customer and explain the risks. Maybe we can deliver an MVP first with just the core functionality, and then add more features in subsequent releases.

****Mike****: That's a good idea. An MVP approach would allow us to get something out there quickly while still maintaining quality. We can focus our testing efforts on the critical paths.

****Emily****: I'll back you all up on that. I'll set up a meeting with the customer to discuss an MVP approach and get their buy-in. I think they'll understand if we explain it the right way.

****David****: Sounds good. Let's make that our top priority today - getting alignment on an MVP approach with the customer. I'll work with Emily to prepare for that meeting. In the meantime, keep up the great work and let me know if any blockers come up. Let's reconvene tomorrow.