

Day 3 Assignment

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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.

Ans:

Project Name: School Management System Feature - Attendance Tracking.

Project Objective: Implement an online attendance tracking system for the School Management System to improve efficiency and communication with parents.

Backlog Items and Estimated Story Points:

1. Create Attendance Page(Story points 5):
As a teacher, I want to have a page where I can mark attendance for my class.
2. View Attendance Records(Story points 3):
As a teacher, I want to view attendance records of my class for any day.
3. Generate Attendance Reports(Story points 8):
As a teacher, I want to generate attendance reports for a specific period.
4. Parent Notification(Story points 5):
As a parent, I want to receive notifications if my child is absent.
5. Admin Attendance Overview(Story points 8):
As an admin, I want to see an overview of attendance across all classes.
6. Export Attendance Data(Story points 3):
As an admin, I want to export attendance data for external analysis.
6. Secure Attendance Data(Story points 5) :
As a user, I want to ensure that attendance data is secure and only accessible to authorized users.

Prioritized List of User Stories:

1. Create Attendance Page (5 SP)
2. View Attendance Records (3 SP)
3. Parent Notification (5 SP)
4. Secure Attendance Data (5 SP)
5. Generate Attendance Reports (8 SP)
6. Admin Attendance Overview (8 SP)
7. Export Attendance Data (3 SP)

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.

Ans:

Daily Standup Meeting - School Management System - Online Attendance

Team Members:

- Product Owner (PO): Sarah
- Scrum Master (SM): John
- Developer 1 (Dev1): Alice
- Developer 2 (Dev2): Bob
- QA Engineer (QA): Eve

Agenda:

1. What did you do yesterday?
2. What will you do today?
3. Are there any blockers?

Script for Daily Standup Meeting:

SM John: Good morning, team! Let's start with our daily standup. Remember, the goal is to keep this under 15 minutes. Alice, let's start with you.

Dev1 Alice:

- Yesterday: I completed the front-end design for the attendance page (User Story 1).
- Today: I'll integrate the back-end API for marking attendance and start working on viewing attendance records (User Story 2).
- Blockers: None at the moment.

SM John: Great, thanks Alice. Bob, you're up next.

Dev2 Bob:

- Yesterday: I set up the database schema for attendance records and started implementing the API.
- Today: I'll finalize the API for marking and viewing attendance, and help Alice with integration.
- Blockers: Encountered an issue with the database performance during testing.

SM John: Thanks, Bob. We'll address that in a moment. Eve, go ahead.

QA Eve:

- Yesterday: Wrote test cases for the attendance page and started testing the initial UI components.
- Today: Continue with testing the integration of the attendance page and start on testing the API once Bob and Alice are done.
- Blockers: Waiting on the integrated version for complete testing.

SM John: Understood, Eve. Sarah, any updates from the Product Owner side?

PO Sarah:

- Yesterday: Reviewed the designs and provided feedback on the attendance page.
- Today: I'll work on user story refinement for the upcoming sprints and be available for any clarifications needed by the team.
- Blockers: None.

SM John: Perfect. Now, let's address the common challenge Bob mentioned about database performance. Bob, can you give more details?

Dev2 Bob: Sure. The issue seems to be with the query optimization when fetching large attendance records. It's taking longer than expected.

SM John: Alice, can you assist Bob with this after the standup?

Dev1 Alice: Absolutely, I'll coordinate with Bob and we'll work on optimizing the queries.

SM John: Excellent. If needed, let's allocate some additional time today to focus on resolving this. Anything else? No? Alright, let's get to work. Have a productive day, everyone!

Team: Thank you, John!