

***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: Calculator Application Development

Project Goal: Create a user-friendly calculator application with basic arithmetic functionalities.

1.Backlog Creation:

Create a product backlog containing all the features and user stories for the Calculator. Continuously refine and update the product backlog throughout the project.

2.Product Backlog:

1. As a user, I want to perform addition and subtraction calculations.
2. As a user, I want to perform multiplication and division calculations.
3. As a user, I want to include decimal point functionality for precise calculations.
4. As a user, I want to have a clear display of input and output during calculations.
5. As a user, I want to be able to clear the current calculation or reset the calculator.

3.Sprint Planning:

Plan development work in two-week sprints, aiming to deliver working software increments at the end of each sprint.

Sprint 1 (2 weeks)

- Set up the basic structure of the application.
- Design the user interface for basic calculator operations.
- Backlog refinement, setup, and initial development.

Sprint 2 (2 weeks)

- Implement core functionality (Backlog 1 & 2).

Sprint 3 (2 weeks)

- Testing and bug fixing.

Sprint 4 (2 weeks)

- Enhancements, additional features (Backlog 3, 4& 5)

Sprint 5 (2 weeks)

- Conduct comprehensive testing and bug fixing.
- Finalize documentation and user guides.
- Prepare for deployment

Story point Estimation:

1. As a user, I want to perform addition and subtraction calculations - 3 story points
2. As a user, I want to perform multiplication and division calculations - 3 story points

3. As a user, I want to include decimal point functionality for precise calculations – 2 story points
4. As a user, I want to have a clear display of input and output during calculations - 2 story points
5. As a user, I want to be able to clear the current calculation or reset the calculator – 1 story points

4. Review and Retrospective:

Regular sprint reviews and retrospectives will be conducted to ensure continuous improvement and alignment with user needs.

Any additional backlog items or changes in priority will be addressed through ongoing backlog grooming sessions.