

AGILE PROJECT PLANNING LOGIC

1. DEFINITIONS

- Sprint: A fixed duration (usually 1-4 weeks) during which a team works to complete a set of predefined tasks.
- Epic: A large feature or project requirement that cannot be completed in a single sprint and is broken down into smaller Stories.
- Story: A user-centric, small, manageable task that contributes to an Epic.
- Story Point: A numerical estimation of the effort required to complete a story, often following the Fibonacci series (1, 2, 3, 5, 8, ...).

Story Point Difficulty Scale:

- 1: Very Easy
 - 2: Easy
 - 3: Moderate
 - 5+: Difficult or complex
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2. PROJECT STRUCTURE

SPRINT 1 - Duration: 5 Days

EPIC: Data Collection

- Story 1.1: Collection of data from source files, APIs or sensors - [2 Story Points]
- Story 1.2: Loading the data using tools like Pandas - [1 Story Point]

EPIC: Data Preprocessing

- Story 1.3: Handling missing/null values using imputation methods - [3 Story Points]
- Story 1.4: Handling categorical values (Label Encoding/One-Hot) - [2 Story Points]

Sprint 1 Total: 8 Story Points

SPRINT 2 - Duration: 5 Days

EPIC: Model Building

- Story 2.1: Building machine learning models (e.g., XGBoost, RandomForest) - [5 Story Points]
- Story 2.2: Testing and validating models using MAE/RMSE - [3 Story Points]

EPIC: Deployment

- Story 2.3: Designing working HTML pages (input, output) - [3 Story Points]
- Story 2.4: Deploying the model using Flask backend - [5 Story Points]

Sprint 2 Total: 16 Story Points

3. NOTES

- Each team member picks stories according to availability and skill set.
- Daily standups help in monitoring progress and handling blockers.
- At the end of each sprint, a retrospective is held to reflect on learnings.
- Story Points are not exact hours but relative effort estimations.