

# Project Planning Phase

## Planning Logic

### Overview of Planning Logic (Agile-based Approach):

This project follows an Agile development methodology where work is divided into manageable units called Sprints, and larger goals (Epics) are broken into smaller User Stories, each assigned Story Points based on complexity. This ensures structured, incremental development and continuous delivery of value.

### Agile Planning Breakdown:

#### Key Definitions:

- **Sprint:** A fixed time period (usually 5 days here) in which a set of tasks are completed.
- **Epic:** A large, high-level feature or functionality too big for one sprint; broken into multiple User Stories.
- **Story:** A specific task contributing to an epic; small enough to complete in one sprint.
- **Story Point:** A unit of effort assigned to a story, typically based on the Fibonacci sequence (1, 2, 3, 5, 8...) to reflect task complexity.

### Story Point Estimation:

Story Point Range	Effort Level
1	Very Easy Task
2	Easy Task
3	Moderate Task
5	Difficult Task

Estimation is based on the Fibonacci series to better differentiate between task complexities.

### Benefits of This Planning Logic:

- Clear breakdown of high-level goals into actionable tasks.
- Realistic estimation of effort through story points.
- Measurable progress with velocity tracking.
- Flexibility to adjust based on performance in each sprint.
- Better team coordination and time management.

### Summary Table:

Sprint	Epic	Total Story Points	Outcome
Sprint-1	Data Collection & Preprocessing	8	Data ready for model input
Sprint 2	Model Building & Deployment	16	Working predictive model deployed via Flask + UI