

The project planning phase defines how the **Gemini Pro Financial Decoder** will be executed using an **Agile–Scrum methodology**.

The planning focuses on sprint-wise task allocation, story point estimation, team velocity, and delivery tracking to ensure timely completion of the project.

The project is divided into **multiple sprints**, each with clearly defined goals, tasks, and measurable outcomes.

2. Agile Planning Approach

The project follows **Scrum-based Agile planning** with the following characteristics:

- Sprint-based development
 - Story point estimation
 - Velocity tracking
 - Incremental feature delivery
 - Continuous testing and improvement
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3. Sprint Configuration

Parameter	Value
Sprint Duration	1 Week
Number of Sprints	4
Team Size	1–2 Members
Working Days per Sprint	5
Daily Working Hours	4 Hours

4. Velocity Planning

Velocity Definition

Velocity is the number of **story points completed per sprint**.

Based on skill level, project complexity, and academic constraints:

Sprint Planned Velocity (Story Points)

Sprint 1 12

Sprint 2 15

Sprint 3 18

Sprint 4 15

Average Velocity = 15 Story Points / Sprint

5. Product Backlog (High-Level)

Backlog ID Feature	Priority
PB-1 Financial file upload	High
PB-2 CSV/XLSX data processing	High
PB-3 Gemini AI summary generation	High
PB-4 Fallback summary logic	Medium
PB-5 Data visualization	Medium
PB-6 UI enhancements	Low
PB-7 Testing and optimization	High

6. Sprint-wise Planning Table (IMPORTANT)

◆ Sprint 1 – Requirement & UI Setup

User Story ID Task Description	Story Points
US-1 Requirement analysis and scope definition	3
US-2 UI layout using Streamlit	4
US-3 File upload components	5
Total	12 SP

◆ **Sprint 2 – Data Processing & AI Integration**

User Story ID	Task Description	Story Points
US-4	CSV/XLSX parsing using Pandas	5
US-5	Gemini API integration	5
US-6	Model initialization & testing	5
Total	15 SP	

◆ **Sprint 3 – Summary Logic & Visualization**

User Story ID	Task Description	Story Points
US-7	AI-based summary generation	6
US-8	Local rule-based fallback summary	4
US-9	Data visualization charts	5
US-10	UI refinement	3
Total	18 SP	

◆ **Sprint 4 – Testing, Optimization & Deployment**

User Story ID	Task Description	Story Points
US-11	Error handling & validation	4
US-12	API quota handling	4
US-13	Performance testing	4
US-14	Final deployment & demo	3
Total	15 SP	

7. Sprint Capacity Planning

Sprint Available Hours Story Points Planned

Sprint 1 20 hrs 12

Sprint 2 20 hrs 15

Sprint 3 20 hrs 18

Sprint 4 20 hrs 15

8. Burndown Logic (Textual Explanation)

During each sprint:

- Tasks are tracked daily
- Completed story points reduce remaining workload
- Velocity is used to predict next sprint capacity

This ensures:

- No overload
 - Predictable delivery
 - Controlled progress
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9. Risk-Based Planning Logic

Risk	Impact	Planned Control
Gemini API quota exhaustion	Summary failure	Local fallback logic
Large datasets	Performance drop	Data sampling
Invalid file format	App crash	File validation
API latency	Delay	Retry handling