

Planned Sprint	Actual Sprint	US ID	User Story Description	MOSCOW	Dependency	Assignee	Status
Sprint 1	Sprint 1	US001	As a developer, I want to set up the Python and LangChain environment, so that I can build and test LLM-based agents locally.	Must Have	Python and Langchain Installation	Backend Team	Completed
Sprint 1	Sprint 1	US002	As an agent developer, I want to create a single agent with prompt templates so that it can respond to user queries via console.	Must Have	LLM Connection	Backend Team	Completed
Sprint 2	Sprint 2	US003	As a developer, I want to integrate tools with error handling, so that the agent can perform certain tasks using tools.	Must Have	Base Agent	Backend Team	Completed
Sprint 3	Sprint 3	US004	As a developer, I want to implement multi-agents with individual memory, so the work is divided logically.	Must Have	Tool enabled Agent	Backend Team	Completed
Sprint 3	Sprint 3	US005	As a developer, I want to implement shared memory so that agents can reuse knowledge across sessions.	Should Have	Multi-agent setup	Backend Team	Completed
Sprint 4	Sprint 4	US006	As a developer, I want to design a workflow using REST API so that external system can trigger it.	Must Have	Orchestration Logic	Backend Team	Pending
Sprint 4	Sprint 4	US007	As a front-end developer, I want to create a simple UI so that a user can interact easily.	Could Have	REST API	Frontend Team	Pending



Sprint	Day	Impediments	Action Taken
Sprint 1	Day 3	Initial confusion with LangChain abstractions	Referred official docs & simplified agent setup
Sprint 1	Day 7	Prompt responses inconsistent	Improved prompt templates
Sprint 2	Day 4	Tool invocation errors	Added clear tool descriptions & error handling
Sprint 2	Day 8	Agent not choosing tools correctly	Prompt tuning for tool usage
Sprint 3	Day 5	Memory not persisting correctly	Switched to VectorStore-based memory
Sprint 3	Day 10	Agent coordination delay	Optimized orchestration flow

SL #	Sprint #	Sprint start date	Sprint end date	Team member name	Start Doing	Stop Doing	Continue Doing	Action taken
1	Sprint 1	12 Nov	25 Nov	Backend team	Studying LangChain fundamentals, agent concepts	Random experimentation without structure	Daily hands-on practice with small examples	Set up LangChain and built a basic single-agent prototype
2	Sprint 2	26 Nov	9 Dec	Backend team	Designing tools with clear input/output	Hardcoding logic inside agent	Writing reusable tools	Implemented reusable tools and integrated them with the agent
3	Sprint 3	10 Dec	23 Dec	Backend team	Defining clear agent roles	Mixing responsibilities across agents	Modular agent architecture	Created separate agents with clearly defined responsibilities