

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

US ID	Task ID	Task Description	Task Start Date	Task Completion Date	Team Member	Activity	Status	Original Estimate (in hours)	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9	Step 10	Step 11	Step 12	Step 13	Step 14
US001	T1	Install and set Python and LangChain environment	17-11-2025	18-11-2025	Backend Team	Environment Set up	Completed	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
US001	T2	Configure LLM API and test the connection	19-11-2025	20-11-2025	Backend Team	LLM Configuration	Completed	3	18	19	20	21	22	23	24	25	26	27	28	29	30	31
US001	T3	Create an agent with prompt template and verify the code output	21-11-2025	23-11-2025	Backend Team	Agent Creation	Completed	5	32	33	34	35	36	37	38	39	40	41	42	43	44	45
US001	T4	Configure logs into agent	24-11-2025	25-11-2025	Backend Team	Log Integration	Completed	5	46	47	48	49	50	51	52	53	54	55	56	57	58	59
US001	T5	Implement error handling for tools	26-12-2025	2-12-2025	Backend Team	Error Handling	Completed	8	60	61	62	63	64	65	66	67	68	69	70	71	72	73
US001	T6	Implement multi-agent workflow with individual memory	16-12-2025	17-12-2025	Backend Team	Multi-agent development	In Progress	10	74	75	76	77	78	79	80	81	82	83	84	85	86	87
US005	T7	Create shared memory module for all agents	17-12-2025	23-12-2025	Backend Team	Shared memory development	Completed	8	88	89	90	91	92	93	94	95	96	97	98	99	100	101
US006	T8	Develop REST API to trigger agent workflow	12-12-2025	30-12-2025	Backend Team	API development	Pending	7	102	103	104	105	106	107	108	109	110	111	112	113	114	115
US007	T9	Create scripts to test agent via REST API	13-12-2025	16-12-2025	Frontend Team	API development	Pending	3	116	117	118	119	120	121	122	123	124	125	126	127	128	129

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