

## Project Planning Phase

Date: 26 June 2025

Team ID: LTVIP2025TMID34234

Project Name: SmartSDLC: AI-Enhanced SDLC Automation Platform

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

#### Product Backlog & Sprint Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	App Initialization	USN-1	Set up Streamlit app and virtual environment	2	High	All
Sprint-1	Model Setup	USN-2	Connect to IBM Watsonx and validate credentials	2	High	Lithan, Jai
Sprint-2	Requirement Classifier	USN-3	Upload PDF and classify into SDLC phases	3	High	Mahitha
Sprint-2	AI Code Generator	USN-4	Enter feature and generate code using Watsonx	4	High	Jai
Sprint-3	Bug Fixer Module	USN-5	Paste code and get AI-suggested bug fixes	3	High	Niharika
Sprint-3	Test Case Generator	USN-6	Generate unit tests from code/functions	3	Medium	Mahitha
Sprint-4	Code Summarizer	USN-7	Summarize and explain uploaded code	2	Medium	Lithan
Sprint-4	Chatbot Integration	USN-8	Add floating chatbot for SDLC support	4	High	Jai
Sprint-5	UI Enhancements	USN-9	Improve UI layout and	2	Medium	All

			feedback prompts			
Sprint-5	Deployment	USN-10	Deploy app to Streamlit Cloud	3	High	Jai

### Project Tracker, Velocity & Burndown Chart (4 Marks)

Sprint	Total Story Points	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Release Date
Sprint-1	4	01 July 2025	06 July 2025	4	06 July 2025
Sprint-2	7	07 July 2025	12 July 2025	7	12 July 2025
Sprint-3	6	13 July 2025	18 July 2025	5	18 July 2025
Sprint-4	6	19 July 2025	24 July 2025	5	24 July 2025
Sprint-5	5	25 July 2025	30 July 2025	4	30 July 2025

#### Velocity:

Average Velocity =  $(4 + 7 + 5 + 5 + 4) / 5 = 5$  story points per sprint