

## Project Design Phase-II Data Flow Diagram & User Stories

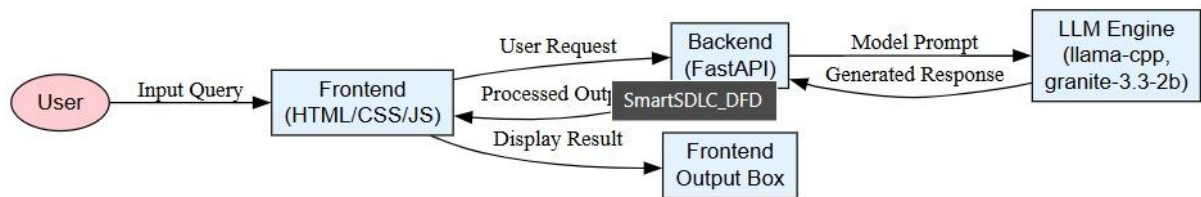
Date	18 JUNE 2025
Team ID	LTVIP2025TMID37665
Project Name	SMART SDLC
Maximum Marks	4 Marks

### Data Flow Diagrams:

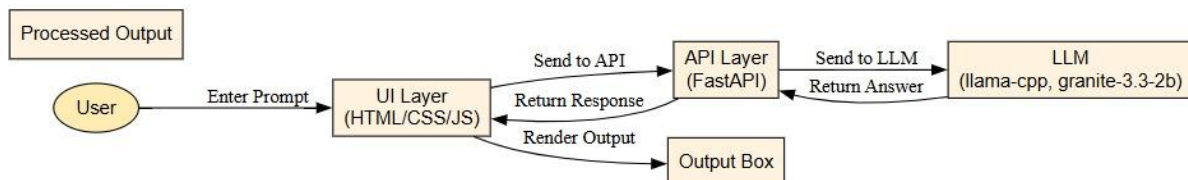
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

### Data Flow Diagram

#### Level 0 DFD:



#### Level 1 DFD:



## User Stories :

User Type	Functional Requirement (Epic)	User Story ID	User Story / Task	Acceptance Criteria	Priority	Release
Developer	Requirement Analysis	USN-1	As a developer, I can upload a PDF to extract requirements	System outputs categorized functional/NFRs in Markdown	High	Sprint-1
		USN-2	As a developer, I can refine requirements via natural language prompts	System updates requirements based on feedback	Medium	Sprint-1
Developer	Code Generation	USN-3	As a developer, I can generate Python code from requirements	Output is syntactically correct and well-commented	High	Sprint-2
		USN-4	As a developer, I can specify the language (Python/JS/Java) for code generation	System generates code in the selected language	Medium	Sprint-2
Tester	Test Case Creation	USN-5	As a tester, I can submit code to generate unit test cases	Tests cover edge cases and match code functionality	High	Sprint-3
		USN-6	As a tester, I can select a testing framework (pytest/JUnit)	Tests follow the chosen framework's conventions	Low	Sprint-4
Developer	Bug Fixing	USN-7	As a developer, I can submit buggy code for AI-assisted fixes	System provides corrected code with explanations	High	Sprint-3

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<b>Project Manager</b>	Documentation	USN-8	As a PM, I can auto-generate project documentation from code	Output includes function descriptions and examples	Medium	Sprint-4
<b>All Users</b>	Chatbot Assistant	USN-9	As a user, I can ask SDLC-related questions to the AI chatbot	Responses are accurate and actionable	High	Sprint-1