Project Design Phase-II

Data Flow Diagram & User Stories

Date	17 June 2025
Team ID	LTVIP2025TMID29152
Project Name	SmartSDLC – AI-Enhanced Software Development Lifecycle
Maximum Marks	4 Marks

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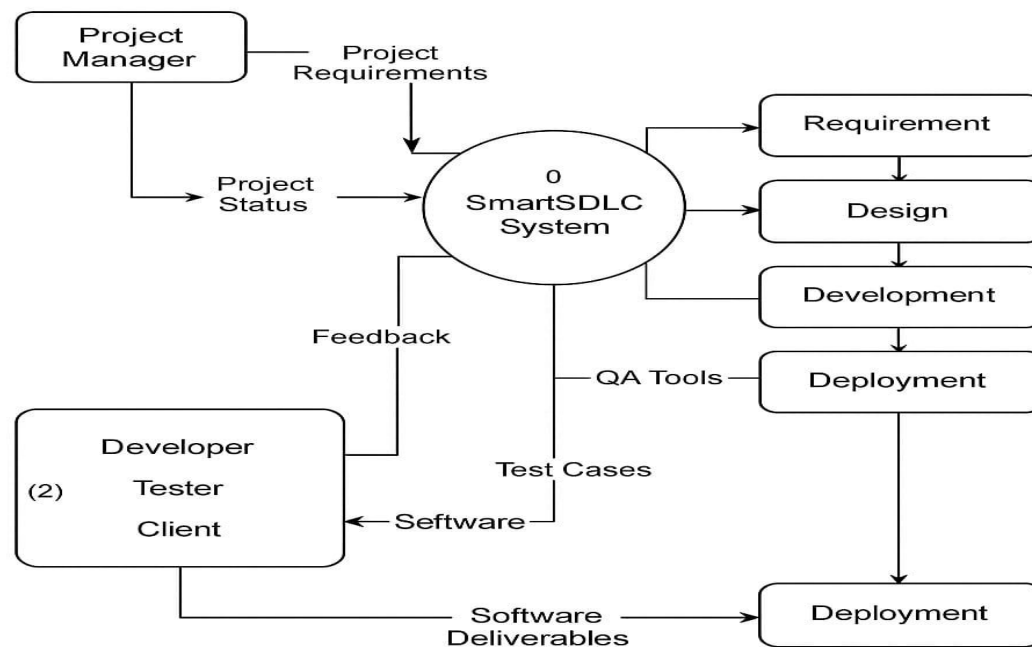
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Internal entities:

✧ Requirement module

✧ Design module

✧ Development module

✧ Testing module

External entities:

✧ Project manager

◇ Developer

◇ Tester

◇ client

User Stories :

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration Or login	USN-1	As a user, I can register/login using email credentials.	I can access my account .	High	Sprint-1
Customer (Mobile user)	Upload and Classify PDF	USN-2	As a user, I can upload a PDF than SmartSDLC classifies the PDF into functionalities.	I can receive classification of functionalities.	High	Sprint-1
Customer (Mobile user)	Chat Assistant	USN-3	As a user, I can ask questions via chat and receive AI responses.	I get context-ware responses from the SmartSDLC AI model.	Low	Sprint-2
Customer (Mobile user)	AI code Generator	USN-4	As a user,I can ask code then generate it.	It can generate basic code.	Medium	Sprint-1
Customer (Mobile user)	Code Summarizer	USN-5	As a user, it can be analyze and provides a human readable summary	It can generate a summarized version of written code.	High	Sprint-1
Customer (Mobile user)	Bug Fixer	USN-6	As a user,I can submit code and receive bug fixed suggestions.	The app returns the same code with suggestions inline.	High	Sprint-2
Customer (Mobile user)	Test case Generator	USN-7	As a user,I can upload code and get automatically generated test cases.	SmartSDLC generates and displays valid test cases for the submitted code.	Medium	Sprint-2
Customer (Mobile user)	Feedback	USN-8	As a user,I can submit feedback through a form in the app.	II see a confirmation message and feedback is stored in SmartSDLC system.	Medium	Sprint-3