Project Design Phase-II
Data Flow Diagram & User Stories

Date	26 JUNE 2025
Team ID	LTVIP2025TMID29388
Project Name	Edu-Tutor AI: Personalized Learning with Generative AI and LMS Integration
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.

Example: (Simplified)
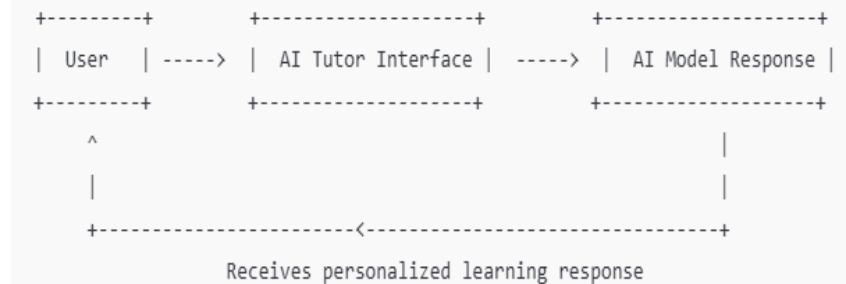
[Start]

  |

  v

[User Opens Gradio App]

  |

  v

[User Enters Question]

  |

  v

Example: Level 0 DFD (Context Diagram)

```
+---------+        +--------------------+          +--------------------+
|  User   | ----->  |  AI Tutor Interface |  ----->  |  AI Model Response |
+---------+        +--------------------+          +--------------------+
    ^                                                          |
    |                                                          |
    +----------------------<-----------------------------------+
              Receives personalized learning response
```

[Submit to AI Tutor Backend]

  |

  v

[Process via LLM (e.g., GPT)]

  |

  v

[Generate Educational Response]

  |

  v

[Display Response in Gradio UI]

  |

  v

[End / Ask Another Question]

User Type	Functional Requirement	User Story No	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web)	AI Learning Support	USN-6	As a user, I can input academic questions into the AI tutor interface	I get a relevant and clear AI-generated answer	High	Sprint-2
Customer (Web)	Real-time Assistance	USN-7	As a user, I want the AI tutor to respond instantly within the same interface	I get my response displayed without needing to refresh	High	Sprint-2
Customer (Web)	Contextual Learning	USN-8	As a user, I want the AI tutor to remember the context of the current session	I receive follow-up responses based on prior input	Medium	Sprint-3
Customer (Admin)	Query Log Management	USN-9	As an admin, I can view logs of user queries and AI responses	Admin can review AI interactions for quality	Low	Sprint-4