

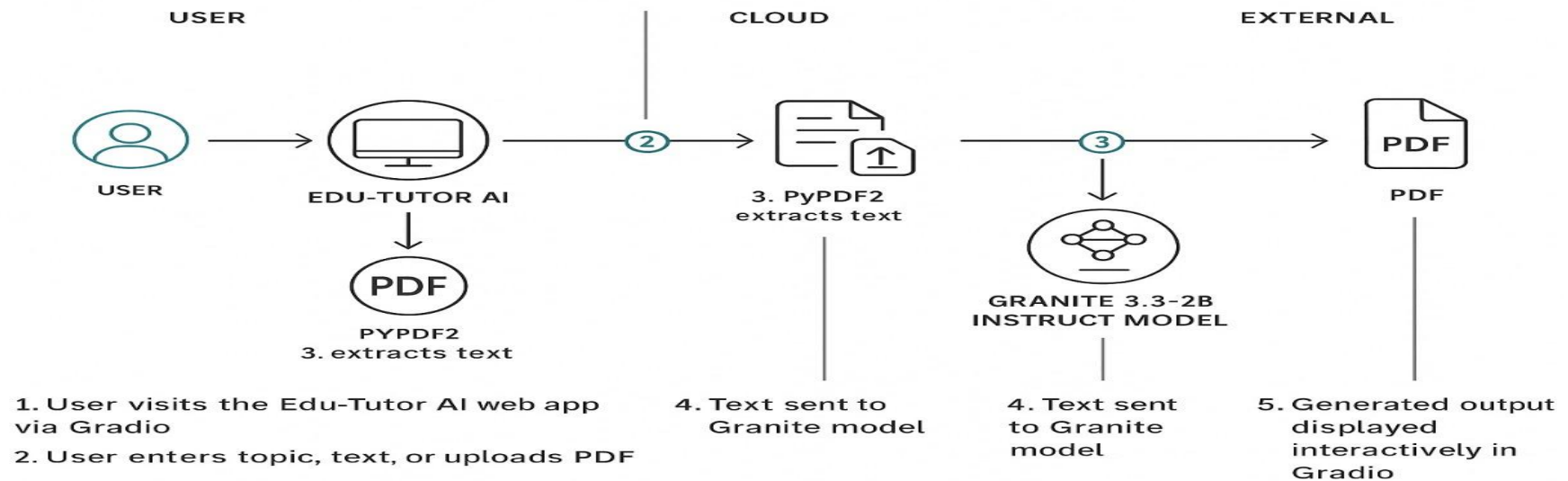
Project Design Phase-II

Data Flow Diagram & User Stories

Date	27 June 2025
Team ID	LTVIP2025TMID30136
Project Name	EduTutor 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.



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Learner	Chat Functionality	USN-1	As a learner, I want to chat with Edu-Tutor AI to ask questions and get instant responses.	I can type a message and receive a relevant AI-generated text response in the chat interface.	High	Initial Release
Learner	Text Summarization & Explanation	USN-2	As a learner, I want to paste text and choose a summary type (short, detailed, simple) to quickly understand content.	I can input text, select a summary type, click "Generate Summary/Explanation", and see the summarized/explained output in markdown format.	High	Initial Release
Learner	Text Refinement	USN-3	As a learner, I want to paste text and refine it to improve its clarity, grammar, and style.	I can input text, click "Refine Text", and see a grammatically correct and stylistically improved version of my text.	Medium	Initial Release
Learner	Word Meaning & Usage Lookup	USN-4	As a learner, I want to enter a word to get its meaning and example usage to expand my vocabulary.	I can enter a word, click "Get Meaning & Usage", and see a markdown output with the word's definition and example sentences.	High	Initial Release
Learner	Sentence Translation	USN-5	As a learner, I want to enter an English sentence and select a target language to get an instant translation.	I can input an English sentence, choose a target language from the dropdown, click "Translate Sentence", and see the translated sentence.	High	Initial Release
Learner	Quiz Generation	USN-6	As a learner, I want to generate a multiple-choice quiz based on a specific topic.	I can enter a topic, select the number of questions and difficulty, click "Generate Quiz", and see a quiz displayed with questions and radio button options.	High	Initial Release
Learner	Quiz Generation	USN-7	As a learner, I want to generate a multiple-choice quiz from an uploaded PDF document.	I can upload a PDF file, select the number of questions and difficulty, click "Generate Quiz", and see a quiz displayed based on the PDF content.	High	Initial Release
Learner	Quiz Submission & Feedback	USN-8	As a learner, I want to submit my quiz answers and receive immediate, detailed feedback on my performance.	I can select options for each quiz question, click "Submit Quiz", and see my score, correct answers, and explanations for each question.	High	Initial Release
Learner	Performance Tracking & Insights	USN-9	As a learner, I want to view my quiz history to track my progress over time.	I can navigate to the "Performance Dashboard" and see a DataFrame listing my past quizzes with topics, difficulties, scores, and timestamps.	High	Initial Release
Learner	Performance Tracking & Insights	USN-10	As a learner, I want to identify my "weak areas" based on past quiz	I can see a "Weak Areas" section on the Performance Dashboard that highlights	High	Initial Release

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			performance so I know what topics to focus on.	topics where I scored below a certain threshold.		
Learner	Performance Tracking & Insights	USN-11	As a learner, I want to receive suggestions for next steps based on my performance, to guide my learning journey.	I can see a "Suggested Next Steps" section on the Performance Dashboard providing advice related to my performance, e.g., "Take more quizzes to get personalized suggestions!".	Medium	Initial Release
Learner	Quiz Reset & New Quiz Initiation	USN-12	As a learner, I want to easily start a new quiz after submitting one or reviewing my performance.	I can click a "Start a New Quiz" button, which clears the previous quiz and makes the quiz generation options visible again.	High	Initial Release