# Project Design Phase

## Solution Architecture

Date: 24 June 2025

Team ID: LTVIP2025TMID29198

Project Name: EduTutor AI – Personalized Learning with Generative AI

Maximum Marks: 4 Marks

## Solution Architecture

The solution architecture for EduTutor AI is designed to enable personalized, AI-powered learning experiences for students and educators. It bridges the gap between static educational content and dynamic, generative tools that adapt to each user. Key objectives of this architecture include:

* Designing an efficient and scalable system using Python and Streamlit.
* Integrating IBM Granite LLM for generating quiz questions and learning content.
* Ensuring role-based access control and storing user/quiz data using lightweight JSON files.
* Providing visualization and tracking of quiz results using Plotly and pandas.

• Delivering an intuitive, interactive UI for both students and educators.

## Solution Architecture Diagram

