Project Title

Inquizitive – AI Powered Quiz Application

Project Sponsor

Private

Project Manager

Shahana Mansoor Jamal

Project Purpose and Justification

The purpose of the Inquizitive project is to reduce the manual workload of teachers by providing an application that automates quiz generation, distribution, grading, and performance tracking. Traditional methods of assessment are time-consuming and lack intelligent automation. Inquizitive addresses these challenges by integrating AI to assist in quiz creation, personalize quiz delivery for academic integrity, and generate real-time performance analytics, improving both teaching efficiency and student learning outcomes.

Project Objectives

- Deliver a fully functional AI-powered application within 4 months

- Enable manual and AI-based quiz creation with customizable options

- Ensure automatic grading and individualized performance reports

- Secure student login and personalized quiz generation

- Maintain academic integrity with randomization and time-restricted questions

- Achieve at least 50% faculty adoption within the first semester of launch

High-Level Requirements

- Manual quiz creation editor with multimedia support

- AI-powered question generator aligned with curriculum topics

- Timer-based navigation (no return to previous questions)

- Personalized quiz versioning for each student

- Automatic grading and results calculation

- Student performance analytics dashboard

- Data encryption and secure local/cloud-based storage for records

Assumptions

- Internet access is available for AI-based features

- Faculty will be trained to use the application and dashboard

- Curriculum material will be accessible for AI model tuning

Constraints

- **Timeline:** 4 months

- **Budget Cap:** PKR 20K

- Development team limited to 5 members

- Must function offline for quiz-taking; only AI and analytics require internet

Major Milestones

- **Start Date:** July 17, 2025

- **Requirements Finalize:** July 23, 2025

- **Design Phase Completion:** August 20, 2025

- **Development Completion:** September 20, 2025

- **Testing and QA:** October 5, 2025

- **Final Deployment:** October 20, 2025

High-Level Risks

- Resistance to new technology from non-tech-savvy teachers

- AI-generated questions may be inaccurate without proper training data

- Bugs or crashes during quiz attempts may affect student experience

- Cheating via secondary devices or internet resources

Key Stakeholders

- **Project Sponsor:** Private

- **End Users:** Teachers, Students

- **Operations:** Quiz creation, delivery, grading and analytics

- **IT & Engineering:** CerebroSparks (Development & Tech Team)

- **Legal & Compliance:** Academic integrity per institutional policies