EduTutor-AI: Solution Requirements

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Project Name: EduTutor-AI

# Functional Requirements

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| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
| FR-1 | Role-based Login | Google or email/password login for students and educators |
| FR-2 | Quiz Generation | Topic input → AI-generated MCQ quiz using Watsonx |
| FR-3 | Result Storage & Retrieval | Save quiz score, time, topic to Pinecone |
| FR-4 | Educator Dashboard | View quiz data by student, topic, time |
| FR-5 | Feedback & Explanations | Show score + AI explanation after each quiz |

# Non-functional Requirements

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| NFR No. | Non-Functional Requirement |
| NFR-1 | Usability – Simple UI with Streamlit |
| NFR-2 | Security – .env-based credential storage |
| NFR-3 | Reliability – Stable AI + Pinecone APIs |
| NFR-4 | Performance – Fast quiz generation |
| NFR-5 | Scalability – Deployable via IBM Cloud |