Project Design Phase – II : **Technology Stack (Architecture & Stack)**

| Date | June 2025 |
| --- | --- |
| Team ID | LTVIP2025TMID33933 |
| Project Name | Edu Tutor AI |
| Maximum Marks | 4 Marks |

# Table-1: Application Components

| S.No | Component | Description | Technology |
| --- | --- | --- | --- |
| 1 | User Interface | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc. | Streamlit |
| 2 | Application Logic-1 | Logic for user registration, quiz creation, and dashboard logic | Python |
| 3 | Application Logic-2 | Speech-to-text conversion for oral quiz inputs | IBM Watson STT service |
| 4 | Application Logic-3 | Handling user queries via chatbot | IBM Watson Assistant |
| 5 | Database | Stores user data, quiz questions, scores, performance | Session Storage |
| 6 | Cloud Database | Stores scalable user and quiz data on cloud | IBM Cloudant |
| 7 | File Storage | Stores performance reports and logs | IBM Cloud Object Storage / Local Filesystem |
| 8 | External API-1 | Optional use of contextual APIs for quiz relevance | IBM Weather API |