Frontend

Backend

Presentation

API Gateway and Security

Business Logic

Data

Firebase/ OAuth2

User Management and Authentication

| User Profile UI |
| Menues |

Users REST API Endpoint

API Controller

User Authentication Module

User Management Module

SQL Connection Handler

SQL Database

Database for User Data

| Group UI |

Groups REST API Endpoint

Group Management

Groups Management Module

| Chat UI |

Chat Rest API Endpoint

Group Chat Module

NoSQL Connection Handler

No SQL Database

Database for groupe and Chat Data

| Progress and Performance Dashboard |

Dashboard API Endpoint

Input processing and Performance Tracking

User History/Statistics Module

User Input Processing Module

NoSQL Connection Handler

No SQL Database

Database for input and Performance tracking

| Newsfeed UI |

Newsfeed REST API Endpoint

Newsfeed

Newsfeed Generation Module

| Content Validation UI |

Content Management

Content Validation Module

Content Retrieval/Modification Module

| Content UI |

Quizzes Module

Flashcard Module

Summaries Module

| Data Upload UI |

Content REST API Endpoint

Content Creation/Storage Module

NoSQL Connection Handler

No SQL Database

Database for Content storage

Data Upload Module

Data processing Module

OpenAI API Controller

OpenAI API