

## **Quizzzy!**

Quizzzy is an educational application. Users can generate MCQ typed questions by simply uploading their study materials. Both teachers and students will get benefitted from this application.

- Students can upload their materials and self-evaluate them.
- Teachers can save time on creating MCQ tests for students by using this application. They can use some of generated questions for their tests. And also, this will serve as a platform for evaluating students. So, teachers can generate quizzes on this platform and assess their students.

Application features,

- Users can upload their study materials (PDF/Word, Text-Only format is preferred) and application will generate appropriate MCQ type questions for them.
- Users can share the generated questions in a Quiz form, and assess others by sharing the quiz code (like most of the Online quiz platforms).

Functions of Application,

### ○ **GENERAL**

- User login (Student / Teacher)
- Extract text from user-uploaded content and send it to server.
- In server,
  - ◆ Input will be paraphrased and key points for generating MCQs will be extracted.
  - ◆ Questions will be generated from extracted key points and paraphrased text.
  - ◆ False answers for each question will be generated using each key points.
  - ◆ Questions along with their answers will be sent back to requested device.

### ○ **STUDENTS**

- Generated questions will be displayed one by one and user will be evaluated.

- **TEACHERS**

- Questions will be displayed.
- Selected questions will be saved to Cloud storage and, can be used for generating quiz.
- Generate unique code for each quiz, in order to access them.
- Evaluate students / who are taking quiz, and send report to teacher.

Tech stack,

- Cross platform application development,
  - Flutter (Dart)
- Question generation,
  - Python
  - PyTorch framework
- Deployment on Cloud,
  - Flask (Python)
  - Docker
- Cloud services,
  - Google Cloud Run
  - Firebase

Below image shows visual representation of System's function

