

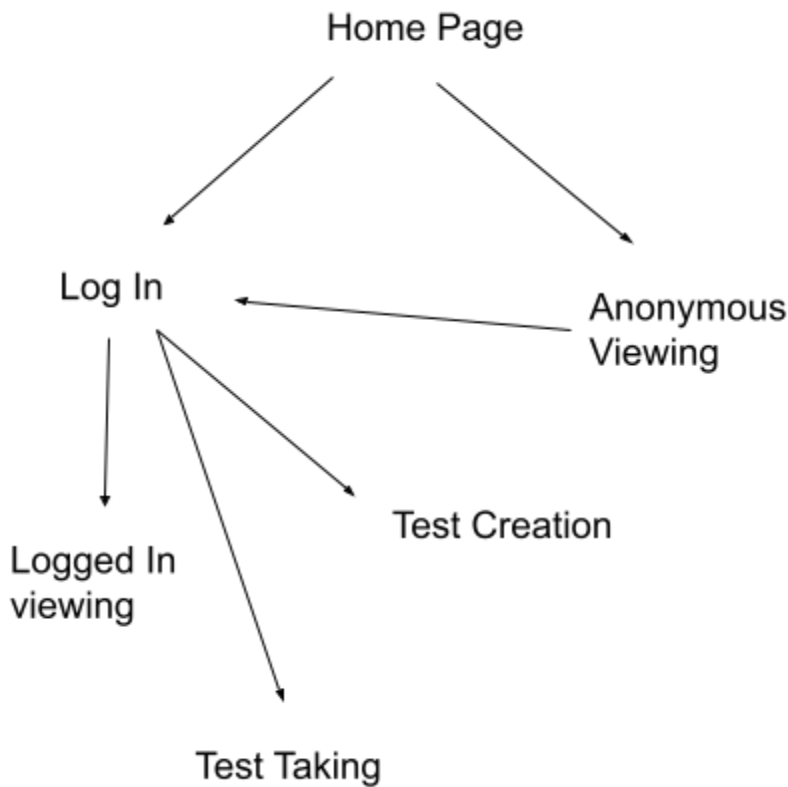
**Team GoLang** - Sean Ging (PM), Patrick Ging, David Chong, Aryaman Goenka  
Design Doc:

**Due Date:** June 14th 2022

**Concept:** Using AI to create a quizlet-like scenario, using REACT for the user to take the quiz

- Limited amount that our “camera” can decipher
- Using Node.js, express.js, REACT predominantly

**General Navigation:**



- Uses Tesseract in the microservice perhaps Rabbit MQ for queue management

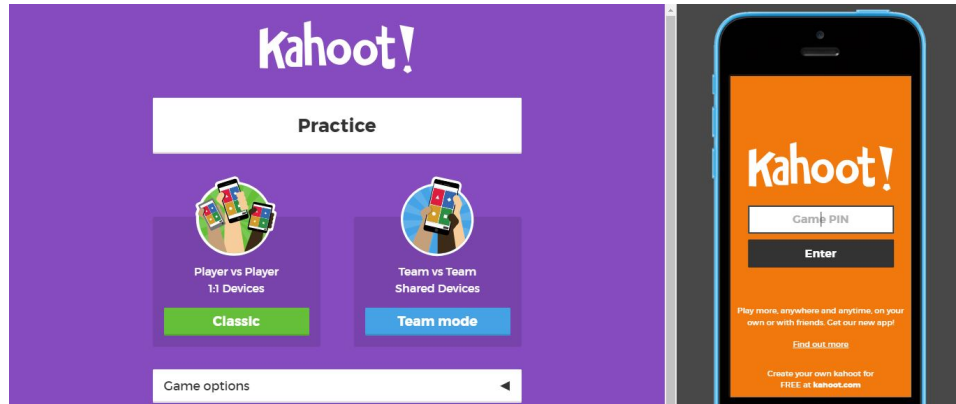
**Current Program Components:**

- **Home Page**
  - User, login page
  - Why? So we can save different quizzes for users!
- **Processing page**

- Form for uploading documents
  - Once uploaded, content will be sent to tesseract microservice
    - Users can correct and add-on to the created document
  - Alternatively one can manually input their information
- Quiz page
  - Using REACT, html, js
  - Allows for users to actively learn what they are reading
- Tesseract
  - OCR Engine that can transcribe images
  - Using python wrapper, possibly a fine-tuned engine
  - Going to be on a separate microservice than the flask instance
- Database
  - Upload information
  - Render it onto the quiz page using
    - Sqlite
    - Jinja Templating
    - React
- Flask, Apache
  - Host web service
- Question generator
  - Four answer choices per question
  - Saved on database
  - One choice saved as correct answer
  - API(s)?
  - AI(s)?

### Stretch goals

- Open-ended question
  - We can use AI to see how “accurate” the answer is to the correct answer
- Kahoot-like interface



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- **Timed-questions, points for correct answers!**
- **Multiplayer options**
  - **Allow many to answer questions at once, take the same quiz at once**
  - **Set up a server**