

# Imajin

## General Description

*Imajin* is a trivia site that allows you to answer various trivia questions, and keeps a running score of your highest streak (in each category as well as mixed). In addition to displaying questions with selectable choices, *Imajin* will also generate an image relevant to the question to display near it for aesthetic effect.

## Database

Table	Fields
Users	username TEXT PRIMARY KEY, password TEXT, highscores TEXT

- **username:** a user's unique username
- **password:** a hashed version of the user's password
- **highscores:** A python dictionary of { '<subject>' : <score> } stored as a string using repr()

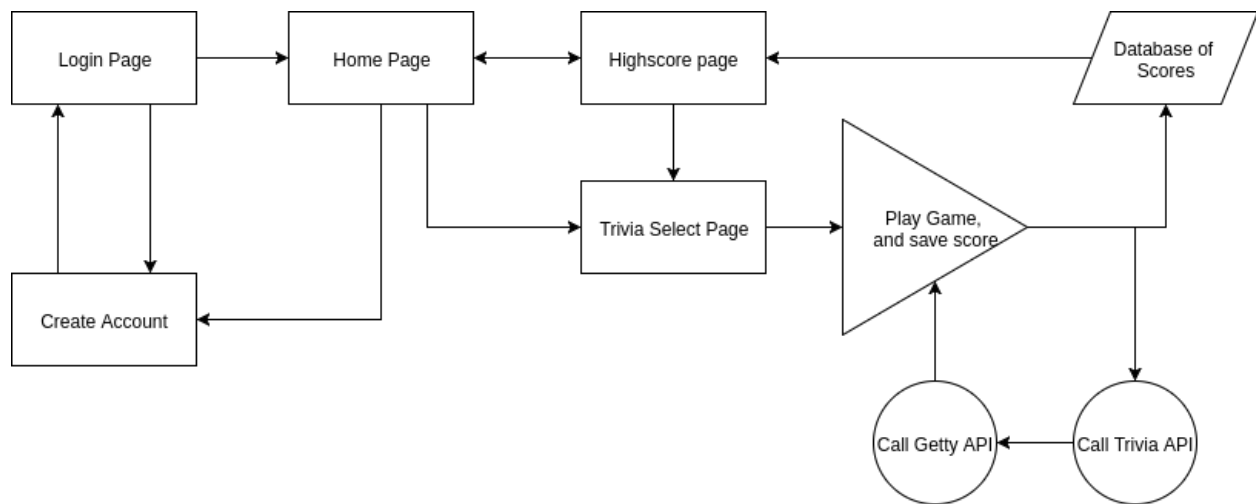
## Components

- Open Trivia DB (API): An API that stores trivia questions and allows you to specify number of questions, genre, difficulty, and type of question. The results are returned in json format.
- Getty Images (API): An API that takes a phrase or a word and returns related images. The information and link to the image is returned in json format.
- Sqlite Database: This database will hold usernames, passwords, and highscores. (see above)
- Templates
  - Homepage - This page will be the central page of the project. It will allow you to see highscores, select a trivia game, and logout. It also functions as a general welcome page.
  - Login - The login page will ask the user to login and then store the cookie so that repeated logins will not be necessary. The login page will also have a link to the create account page.
  - Createaccount - This page will allow the user to create an account that is necessary to login. It will also redirect to the login page once an account is created and have a link to the login page.
  - High score(s) - This page will display the highscores for each genre of trivia games played.
  - Subject Selection - This page is used to select what type of trivia game to play. For example, you would specify what kind of genre you want.
  - Game Page (Has questions) - Has a question that is meant to be answered along with a submit button and an image.
  - Score Report - the final page of the trivia game that tells you your score.
  - NavBar - The NavBar is present in the homepage, highscore page, subject selection page, game page, and score report page. It will allow these pages to easily access the homepage, subject selection page, and highscore page. It will also have a logout option.
- (OPTIONAL) An API for easily sharing scores online (probably FB API or something, only to be done if there is excessive extra time)

# Component Map

- **Login Page:** The first page people see when they visit the website. Essentially just a form to sign in that brings you to the User Home Page on success.
- **Create Account:** This page will ask people to select a password and a unique username for a new account which redirects to the User Home Page on success.
- **User Home Page:** This page has a link to the High Scores Page, a link to the Select Quiz Page and a brief explanation of how to use the website. *You should be logged in to view this page.*
- **High Scores Page:** A list of your best scores, by subject. *Should be logged in.*
- **Quiz/Trivia Selection Page:** A list of subjects from which questions will be drawn, each having a launcher button next to them. *Should be logged in.*
- **Game Page:** Has a question supplied by the Trivia API and a related background image supplied by the Getty API. If you choose the wrong answer, your score will be shown on the Score Report Page. Otherwise, you will get another question to answer. The score is tracked via the session and will be stored in the database if it is higher than previous scores. *Should be logged in.*
- **Score Report Page:** Will display your score (the number of correct answers) to the quiz you just took, as well as the highest score you have ever received in this subject. *Should be logged in.*

# Sitemap



*Legend: The rectangles are pages on the website. The triangle represents the page where you answer questions, which will keep redirecting to itself assuming you answer a question correctly. If you answer a question incorrectly it will bring you to the high score page. The circles represent REST calls. The parallelogram represents database accessor/mutator routes.*

## Work Delegation

- Jake: Project Manager, Miscellaneous code
- Ish: Front-end, Utils for Trivia API
- Max: Utils for Getty API, Routing
- Andrew: Database functionality