TEAM NAME: ShoeBuckle
TEAM MEMBERS: Lucas (LTW) Tom-Wong, Julia (Lia) Nelson, Shriya Anand
Project Name: TBD

P01 Design Document

THEME: Trivia
Trivia is a type of genre where the user answer questions that are pre-laid out. We plan to create a program that:

1. Generates questions and answers to that question
2. Asks the users the questions and receives response
3. Keeps score/track of questions
4. Records the highest score on a leaderboard
5. Displays a leaderboard

Program Components

Microframework: Flask
Database: Sqlite
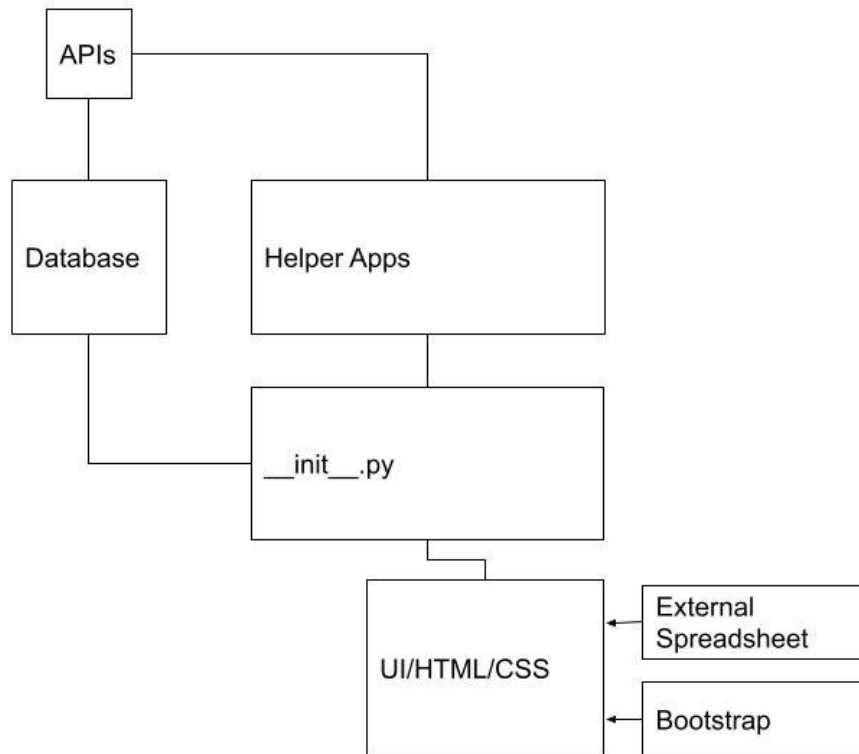Back-End: Python, HTML Templates
Front-End Framework: Bootstrap
We found the bootstrap is easier to understand and the documentation is easier to navigate. Additionally, due to the fact that more people use bootstrap rather than foundation, we've decided that it might be easier to ask questions about bootstrap.

Helper apps should help clean up __init__.py.
Functions should include updating database as well as accessing APIs.

Component Map

Database Organization

Question Database

Whenever a question is needed, a random number generator will decide on a number between 0 and the number of questions in the database. It will then choose the corresponding question. If is the number of questions, then the question will not exist in the database, and therefore, the program will then interact with OpenTrivia API and create a new question and set of answers. Then it will ask the question.

Question	Answers	Correct Answer
What do you get if you multiply six by nine?	14, 42, 54	42
When was the declaration of independence?	1669, 1769, 1676, 1776	1776

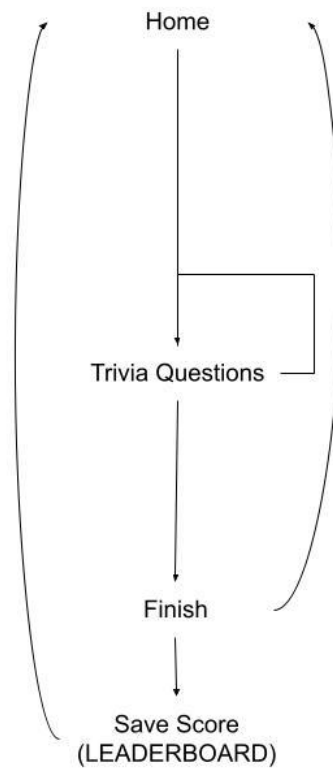Already Asked Questions Database

*Will be deleted between trivia games

Question
What do you get if you multiply six by nine?

Leaderboard Database

Name	Score
AAA	24189431279473273245
NNN	12948732534865
JJK	12948732531114
Bob	2
Why	1

At the end of the trivia, if the score obtained is better than one on the leaderboard, ask for a name. Then place name above scores lower and move all of the scores down, removing the last score.

Site Map

Task Breakdown

Python Development (LTW): Gathering Information from APIs, transcribing them to a usable form, then combining other parts.

Database Development (Lia): Create databases and function related to the databases. Manages how information is stored.

Flask Development (Shriya): HTML and CSS. Creation of external spreadsheets as well as learning more about bootstrap.
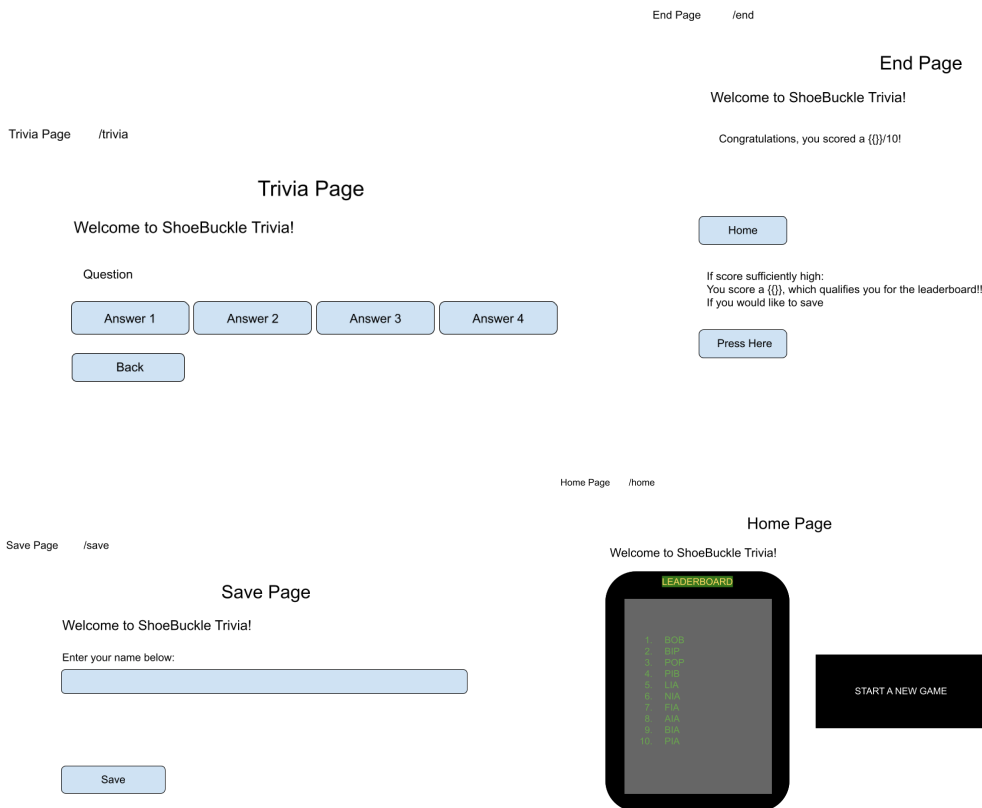

APIs That Will be Used

☐ Fun Facts
☐ Abstract Public Holidays
☐ Open Trivia

* Most likely other APIs will be used. We will need to convert each API to our own format before presenting the questions.

* Notice: We have decided to mainly use Open Trivia

Page Outlines

End Page   /end

End Page

Welcome to ShoeBuckle Trivia!

Congratulations, you scored a {{}}/10!

Trivia Page   /trivia

Trivia Page

Welcome to ShoeBuckle Trivia!

Question

| Answer 1 | Answer 2 | Answer 3 | Answer 4 |

Back

Home

If score sufficiently high:
You score a {{}}, which qualifies you for the leaderboard!!
If you would like to save

Press Here

Home Page   /home

Home Page

Welcome to ShoeBuckle Trivia!

LEADERBOARD

1.   BOB
2.   BIP
3.   POP
4.   PIB
5.   LIA
6.   NIA
7.   FIA
8.   AIA
9.   BIA
10.   PIA

START A NEW GAME

Save Page   /save

Save Page

Welcome to ShoeBuckle Trivia!

Enter your name below:

Save

Color Pallet set to change

Target Deadline for P01

1/14/2022