Team Name: Black Pants

Project Name: Typepacer

Team Members: Xavier Chen, Sonal Parab, Gordon Lei, Adrian Boylan

About

Typepacer is a typing speed game where the user has to retype a quote. The time they take to retype the piece is calculated as words per minutes and the player can not move on to the next word until the word is correct. The player's average wpm will then be calculated and placed into a leaderboard.

Program Component

- Login/Registration
    - In this page, there will be a form with two input fields which would ask for the username and password.
    - There will be two buttons underneath the form which are the Login button and the Register button. If users do not have an account yet, users input their desired username and password and click the registration button. If users have an account, they input their username and password and press login.
    - This page leads to the game page.
- Game Page
    - In this page, there will be five different inspirational quotes generated by the Forismatic API.
    - Under the quotes, there will be an input box, and users type as fast as they can there.
    - Above the quotes, the time elapsed will be displayed as well as WPM (words per minute).
    - When users are finished typing all the inspiration quotes, the final WPM will be displayed.
    - Users can access the leaderboards page from this page or log out.
- Leaderboards
    - In the main / overall leaderboard, the top / fastest 15 players are displayed on their own rows. Then on the last row, it displays the current player's rank + wpm.
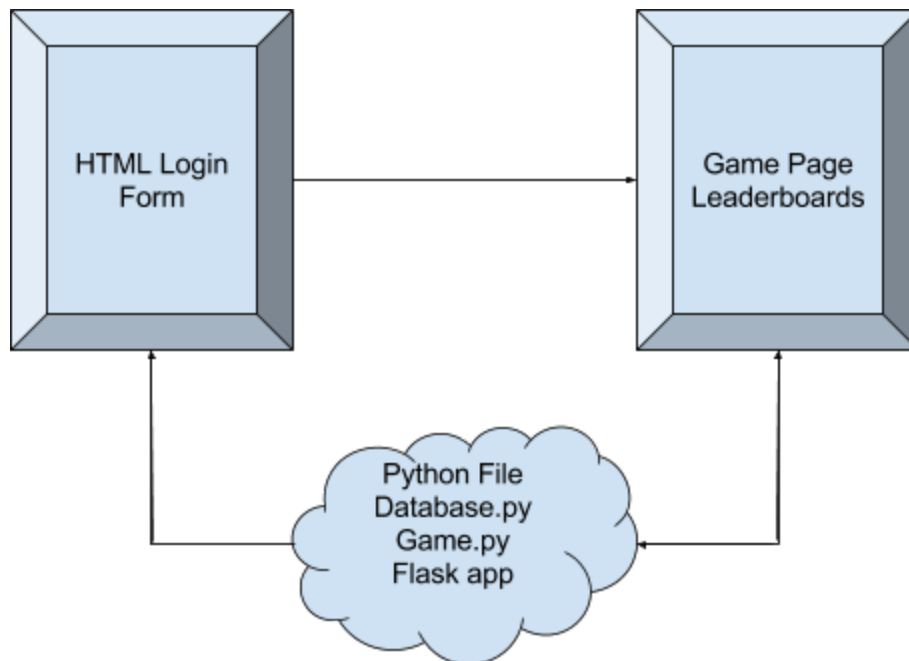
APIs

-Forismatic (Inspirational Quotes):
http://forismatic.com/en/api/
Inspirational quotes to use for our game
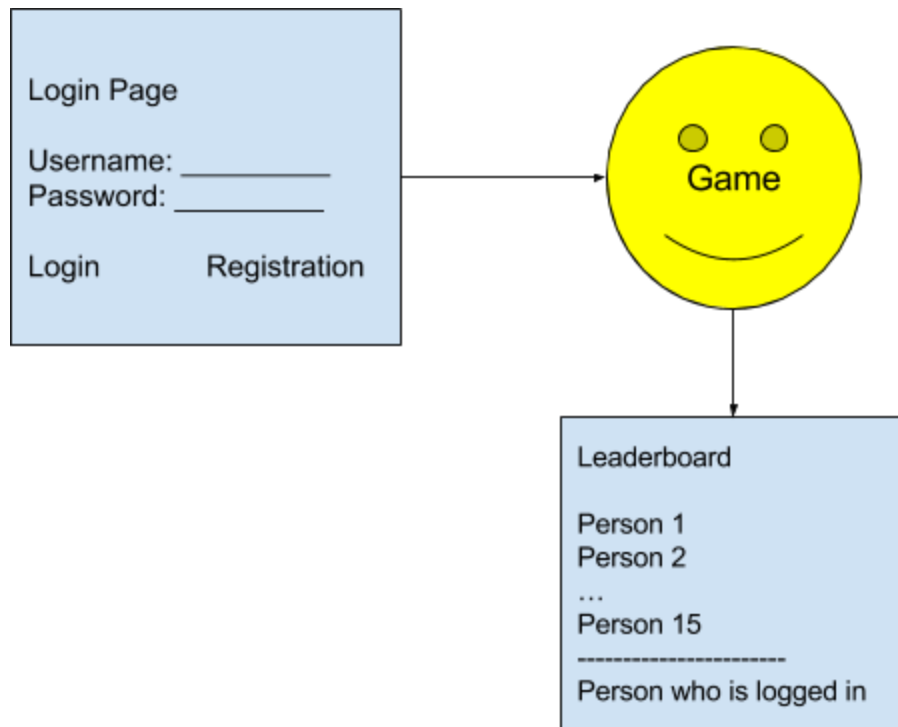
Database Schema
- One database called accountsDB.
    - Which contains one table named accounts…
        - Username and Password and ID of an account
    - Another table called leaderboard
        - One column holds the rank of players
        - Another column holds the name of the individual player
        - Another column holds the average wpm of the player.
- If we have time we could make another database called quotes
    - Which contains one table called games.
        - This table holds a column that holds the ID of the game
        - Another column holds the quote contents.
        - Another column holds a dictionary whose keys are the player names and the values are the wpm of that specific player.

Component Map

Site Map

Task Division

Xavier - Project Manager & Base Templates (no bootstrap)

Adrian - Javascript for the Game & Database.py

Sonal- Game.py & Flask app

Gordon- Front End Aesthetics (Bootstrap)