

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. Players can also check their own profile for how many games they have played, their average WPM, and highest WPM.

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 three 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 navigate the navigation bar to access the leaderboards page, profile page, or log out.
- Leaderboards
 - In the main / overall leaderboard, the top / fastest 15 players are displayed on their own rows. On subsequent rows, the players highest WPM and average WPM are shown.
 - Users can navigate the navigation bar to access the game page, profile page, or log out.

- Profile
 - In the profile page, players can view how many games they played, their average WPM, and their highest WPM
 - Users can navigate the navigation bar to access the game page, leaderboards page, or log out.

APIs

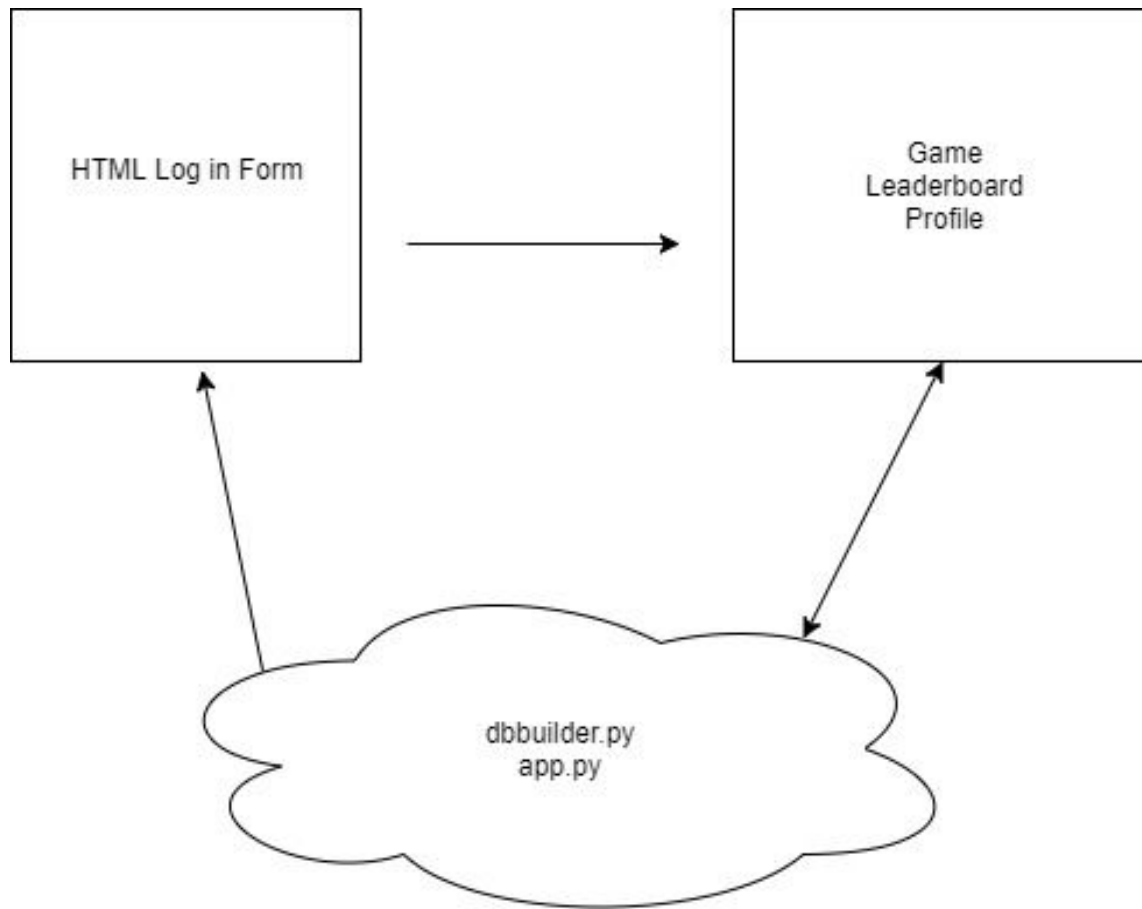
-Forismatic (Inspirational Quotes):

Inspirational quotes to use for our game

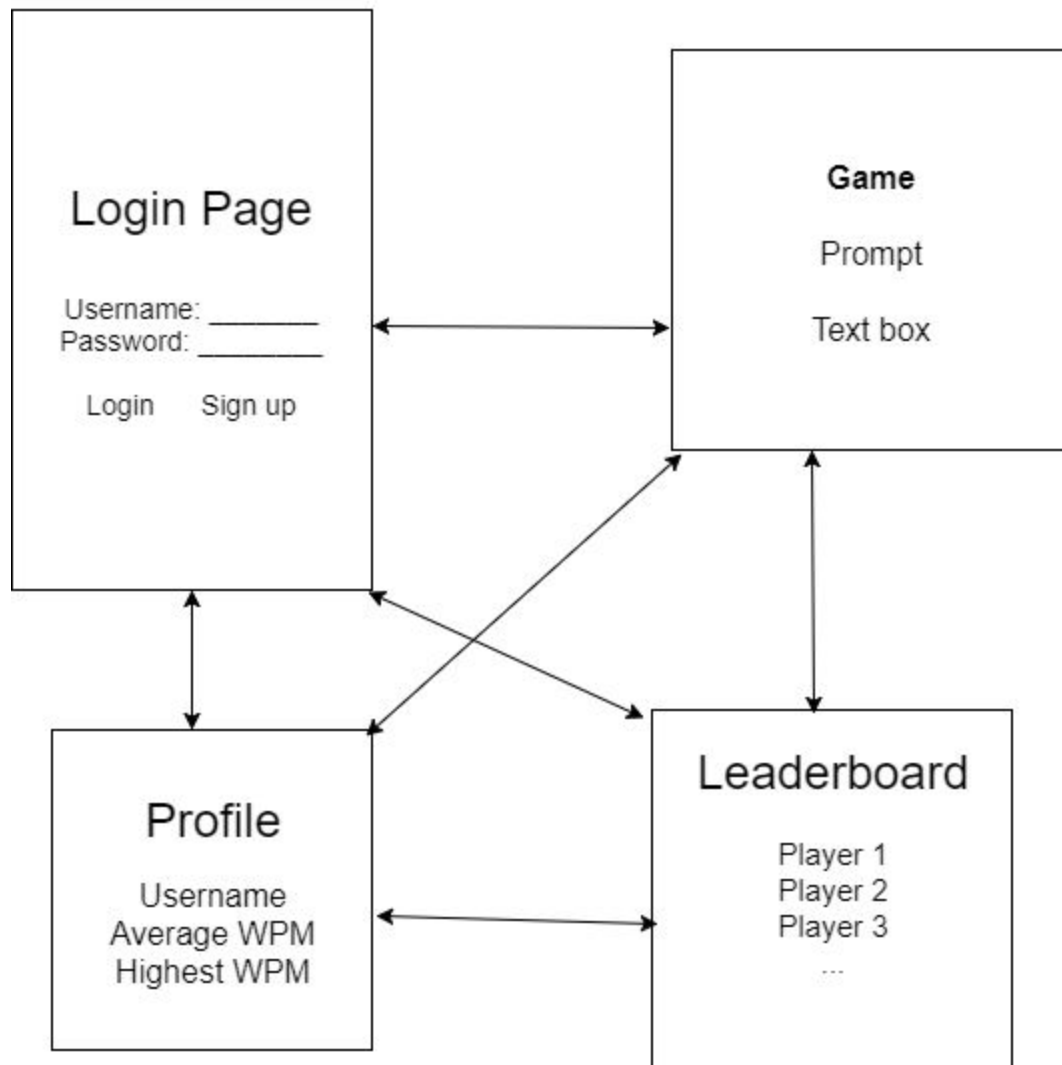
Database Schema

- One database called accounts.
 - One table called accounts
 - One column called id
 - One column, called username
 - One column named pass (stores hashed password)
 - Another table called leaderboard
 - One column called id
 - Another column called username
 - Another column called totalWPM
 - Another column called games (stores total number of games played)
 - Another column called highestWPM (stores the highest WPM achieved)

Component Map



Site Map



Task Division

Xavier - Project Manager & Base Templates (no bootstrap)

Adrian - Javascript for the Game

Sonal- Game.py & Flask app

Gordon- Front End Aesthetics (Bootstrap) & Database.py