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SoftDev
P01: ArRESTed Development
2021-12-08

- A *list* of program components with role of each specified. (e.g., a car engine is comprised of various components: carburetor, alternator, radiator, spark plugs, etc. Each must perform its role for the engine to do its overall job.)
- Explanation of how each component relates to the others.
 - Component map visualizing relationships between components.
- Database Organization (tables? Relationships b/t tables? etc.)
- Site map for front end
 - Represent each page you envision for your site.
 - Show linkages conveying all possible pathways for a user traversing site.
- A breakdown of the different tasks required to complete this project
 - Include assignments of each task to each group member
- Clearly labeled section delineating APIs you will use.
- Clearly labeled section noting which front-end framework you will use and why/how. (*E.g.*, Which of its features will you make integral use of?)
- Target “ship date.”
- Amalgamate these components into a single PDF, store in designated location.

goFindFriends brought to you by Team goFF

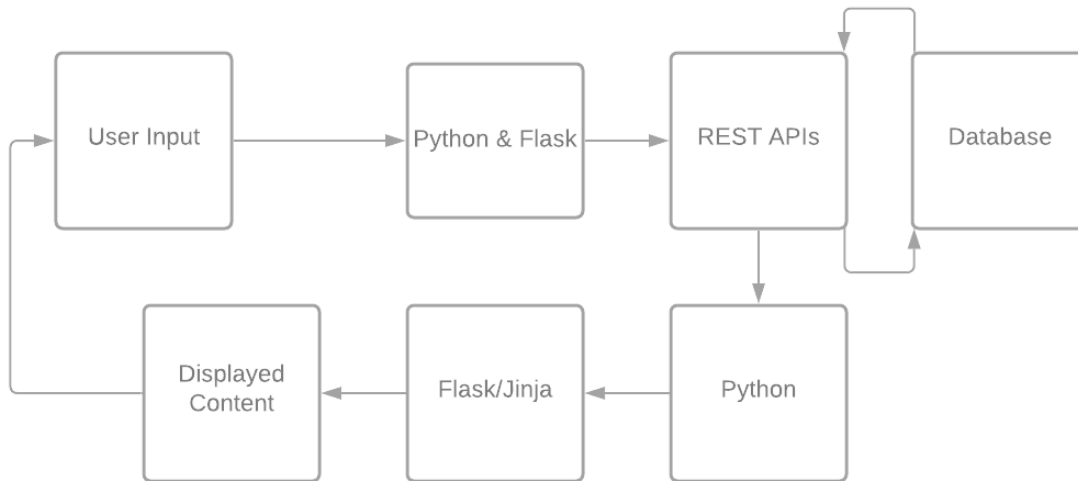
Description

Have you ever wanted to simulate what it’s like to have friends but can never find the time or courage to do so? Then, goFindFriends is the perfect solution for you! goFindFriends (goFF) is a friendship simulation game in which users can match with randomly generated user profiles which showcases their name, bio, age, and other fun facts such as favorite songs, artists, and quote. If users are found to be compatible with one another, they will also be able to simulate what it’s like to have a friendly conversation by engaging in a fun trivia game based on the other user’s interests.

Program Components

- Python for utilization of all tools and resources
- REST APIs for retrieval of profile resources and trivia questions (further in depth on REST APIs later in the document)
- Flask: web framework for creation and deployment of website
- Jinja: web template engine to automatically input information and content; especially useful in cases such as profiles
- SQLite: database for storing user and profile information
- Urllib: accessing content on the worldwide web for utilization of the desired APIs

Component Map:



Program Features

- Personal profile
 - Users will be able to register and login to view the profiles they've liked/matched with
- Randomized User Profiles
 - Contains a profile picture
 - Random name, random age
 - Favorite song
 - Random quote (Chuck Norris, Kanye West, Anime)
- Matching (Like/Dislike/Match)
 - Users will be able to like or dislike a random user profile.
 - If a user likes a user profile, there is a probability that the liked user profile will "like" them back, resulting in a match.
- Interactive
 - If a user matches with a user profile, they will have the option to enter a "conversation" with the user profile.
 - In this "conversation", users will be quizzed on various topics. The more questions they get right, the closer they can get to their new friend!

Database Organization

- User Information:
 - Password and other credentials
 - Interactions with profiles
 - User likes, dislikes, hobbies; personalization factor
- Other pre-existing profiles:
 - Identification factors like profile picture, name, character type
 - Likes/dislikes

Users	List referencing other tables that link to the tables of individual users
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Table for USERNAME

Password	Personalization	Interactions	Saved Profiles
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Site Map
(someone make this into an actual map?)

url/index

Welcome to goFindFriends

RegisterLogin

What is goFF?
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url/login

Login

Username

Password

Login

url/register

Register

Username

Password

Confirm Password

Register

url/home

Home Dashboard

Welcome, User

Profiles I Liked

ConnectConnectConnect



- Index page.
- Register page.
- Login page.
- Home page (see people they like/other personal profile things)
- Matching page???? Page that generates random user profiles
- User page???? Where the magic happens

Tasks

- Personal profile creation sequence with first registration
- Creation of other users (randomly generated out of sight)
- Sqlite saving and displaying those users on page
- "Matching" back and opening trivia questions
- Implementation of trivia API and friendship points

APIs

- Random User Generator -- <https://randomuser.me/> (provides random information related to a user e.g. name, gender, email, dob, etc)
- Quotes: APIs to generate random quotes
 - Kanye quotes -- <https://kanye.rest/> (provides Kanye West quotes)
 - Chuck Norris quotes -- <https://api.chucknorris.io/jokes/random> (provides Chuck Norris quotes)
 - Animechan quotes -- <https://animechan.vercel.app/> (provides quotes from different Anime characters)
- Songs: APIs to generate random songs
 - Genius -- <https://docs.genius.com/> (provides information about a variety of songs through a search function)
 - Spotify -- <https://developer.spotify.com/documentation/web-api/> (provides information about various music artists, albums, etc. as well user related data like playlist and music that the user saves.)
- Trivia: APIs to generate trivia questions
 - Trivia API -- <https://trivia.willfry.co.uk/> (generates a number of random trivia questions based on a category and multiple choice answers.)

Foundation or Bootstrap

- Our group has decided to use **Bootstrap** as our frontend framework! We will be taking advantage of Bootstrap's containers and grids to organize the information on a randomly generated user profile. We will use forms to facilitate the interactive portion of our project. Lastly, we will also be using a variety of Bootstrap components such as navbars and footers to make it easier to navigate through the site.

Target Ship Date: December 23rd, 2021

This is our design doc!

Dating(?) App

- Generates random profiles of randomly generated people
- Friend or no friend? Swipe left or swipe right (button)
- Ideas for profile generation
 - Kanye west quote you live by (kanye)
 - Songs you like (spotify)
 - Favorite Emoji (emoji)
- Interactive portion
 - Matching with someone??
 - Visual novel
 - Pick up lines API

Our team goFF is planning to create a D@ting app in which users can interact with randomly generated profiles (mad-lib profiles)! Users can match with the profiles they like, which will allow them to have a textual conversation with that user, complete with random Kanye West/Chuck Norris quotes, favorite songs, etc.

APIs that we need

- Kanye quotes -- <https://kanye.rest/>
- Chuck Norris quotes -- <https://api.chucknorris.io/jokes/random>
- Emoji -- <https://m3o.com/emoji/console>
- Spotify -- <https://developer.spotify.com/documentation/web-api/>

User tendencies: Each user can have a certain % chance of returning each type of quote. The next randomly generated user will have its percentages affected by whether the user added them as a friend or not.