Team goFF: Rayat Roy (PM), Angela Zhang, Ishraq Mahid, Michelle Lo
SoftDev
P01: ArRESTed Development
2021-12-08

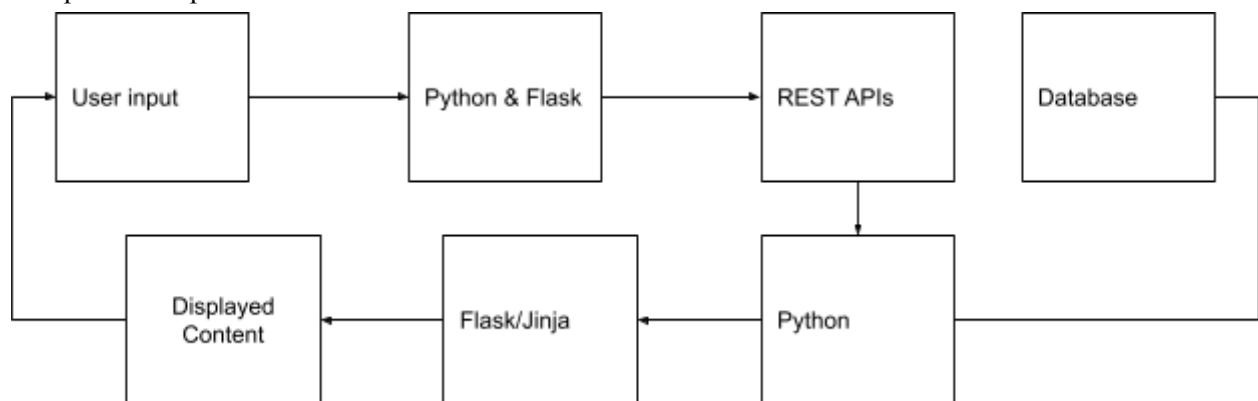goFindFriends brought to you by Team goFF

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 that 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 user profile
    - ☐ Users will be able to register and login to view the profiles they've liked/matched with
- ☐ Randomized Profiles
    - ☐ Contains a profile picture

- ☐ Random name, random age
- ☐ Favorite song
- ☐ Random quote (Chuck Norris, Kanye West, Anime)
- ☐ Random interests (which also serve as the categories for their personalized trivia game)
- ☐ Matching (Like/Dislike/Match)
  - ☐ Users will be able to like or dislike a random user profile.
  - ☐ Disliked profiles are discarded, liked profiles are stored
- ☐ Interactive
  - ☐ If a user matches with a user profile, they will enter a trivia game with the user.
  - ☐ Users will be quizzed with random trivia questions about the profile's interests. 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

Table for USERNAME

Password	Personalization	Interactions	Liked Profiles

Information Map in Context of Profile Template:

Character Name <String>
Favorite Song <String>
Profile Picture <String of href>
Age <Integer>
Random Quote <String>
Likes <List>
Dislikes <List>H

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

url/index

Welcome to
goFindFriends

[Register]   [Login]

What is goFF?
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud
exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
irure dolor in reprehenderit in voluptate velit esse cillum dolor

url/login

Login

[Username]

[Password]

[Login]

url/register

Register

[Username]

[Password]

[Confirm Password]

[Register]

url/home

Home Dashboard

Welcome, User

Profiles I Liked

[Connect]   [Connect]   [Connect]

url/dashboard

Home **Dashboard**

Reanu Keeves

Age Pronouns
My favorite song is…
A quote I live by is…

[Dislike]   [Like]

url/userID

Home Dashboard

Reanu Keeves   Correct: 5 Wrong: 0 Level: BFFs

What is the answer to life?

- 42
- 24
- hehe

Info

Tasks
- Personal user profile creation sequence with first registration
- Creation of other profiles (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://https://docs.genius.com/ (provides information about a variety of songs through a search function)
- Trivia: APIs to generate trivia questions
  - Trivia API -- https://opentdb.com/ (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

Angela
- Frontend bootstrap/html
  - Main CSS
Rayat
- Sqlite3 stuff
  - Adding saved profiles
  - Pulling user login info
  - Pulling profile info
- Assist with css/bootstrap if needed
Michelle
- API work
  - Quote APIS (start with 1, rest if time)
  - User API
  - Trivia API
  - If time: song APIs
Ishraq
- Other general python
  - Generating random users
  - Webpage functions/flask
- Assist with APIs if needed