Project for Modern Application Development I Course

TITLE: InflueSync App

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1.Description:

Objective was to build a web application for sponsor and influencer coordination platform focusing on using Flask as the backend framework for the application. Having the additional feature of providing admin/user-based facilities on the website. In this project, we were supposed to use HTML, CSS, bootstrap, flask, SQL Alchemy, and other necessary modules to build an app for coordination platform. We had to build a login/signup page where we can store the usernames and passwords of people who have visited this web app. Here, users can create profile and perform the provided required operations. Profiles can be created, deleted, and updated. User can track their progress of by looking at the details presented in the dashboard.

- ● **Note:**
  To run the application, install flask, flask SQLAlchemy. And run the "app.py" file using the "python" command on the terminal.

2.Technologies used:

i. **Flask:** used for building the web application.
ii. **Flask-SQLAlchemy:** extension of Flask, used to handle database connections across the app.
iii. **Flask-Login:** an extension of Flask, used for the user session management. Logging in and out, remembering the user, storing active user data etc are handled with this extension.
iv. **CSS:** CSS is employed for styling the web pages and enhancing the user experience.
v. **HTML**: HTML is used for structuring the web pages and creating user interfaces.
vi. **ChartJs**: Uses for creating different types of charts on admin dashboard
vii. **SQL lite**: Database management system for storing application data.
viii. **Jinja2**: Template engine for rendering dynamic HTML content.

3.DB Schema Design:

- ● **Entities and Attributes:**

i. **Users:** user_id (Primary Key), username, password, role, status.

ii. **SponsorInformation**: user_id (Primary Key, Foreign Key from Users), email, industry, brand.

iii. **InfluencerInformation**: user_id (Primary Key, Foreign Key from Users), email, category, niche, reach.

iv. **Campaign**: campaign_id (Primary Key), sponsor_id (Foreign Key from Users), name, budget, sdate, edate, goal, category, bio.

v. **Request**: influencer_id (Primary Key, Foreign Key from Users), sponsor_id (Primary Key, Foreign Key from Users), campaign_id (Primary Key, Foreign Key from Campaign), status, requestor.

- ● **ER Diagram:**

InflueSync: Streamlining Influencer Coordination and Sponsorship Programs
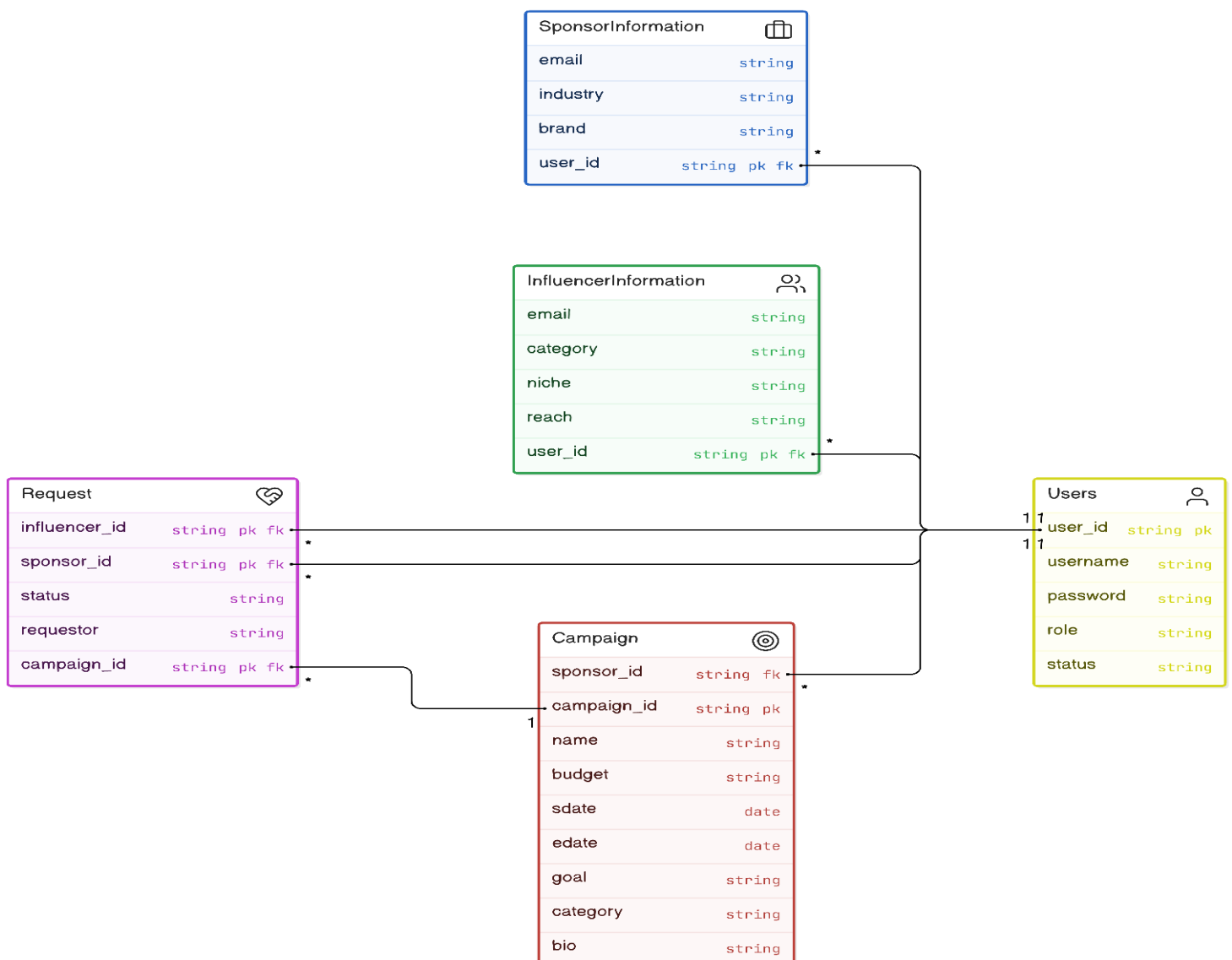
1. The **flask app** opens at the main page. Where person can

    i.   User login: username and password are required fields in form. User should exist in the database or he/she can register himself/herself.

  ii.   Admin login: username and password are required fields in form. Admin cannot register, id is created at the start itself.

 iii. Register user: first name, username and password are required in form.

Username should not exist in the database.

If incorrect password or username is given a prompt is displayed invalid credentials.

2. Users

a. Sponsor:

- Can login and create campaigns, update it, delete campaigns.
- Search for influencers and send Ad-request influencers to participate in their respective campaigns.
- They can accept of reject request sent by influencers to participate in campaigns.

b. Influencer:

- Can login, update their profile.
- An influencer will handle ad requests by accepting or rejecting them, and they can send revised ad requests back to sponsors.
- They can also search for active campaigns based on criteria like name and category and choose to participate. Additionally, they can delete their requests.

c. Admin**:**

- Can login, and see all the statistics in dashboard.
- An admin can monitor all the users/campaigns,
- Admin have ability to flag inappropriate campaigns/users, and also view and delete it.

6. VIDEO LINK:

https://drive.google.com/file/d/1nmEt5mmwpDfQi_t3kHDtY5dd8rRA1DnJ/view?usp=sharing