Project Report

- **About the Author:**
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- **Project Description:**
  This project is made for Modern Application Development – 1 Project Course, (Subject code: BSCS2003P) in May, 2024 term.
  The project is a full-stack web platform, which aims to connect Influencers and Sponsors together, so that they can collaborate.
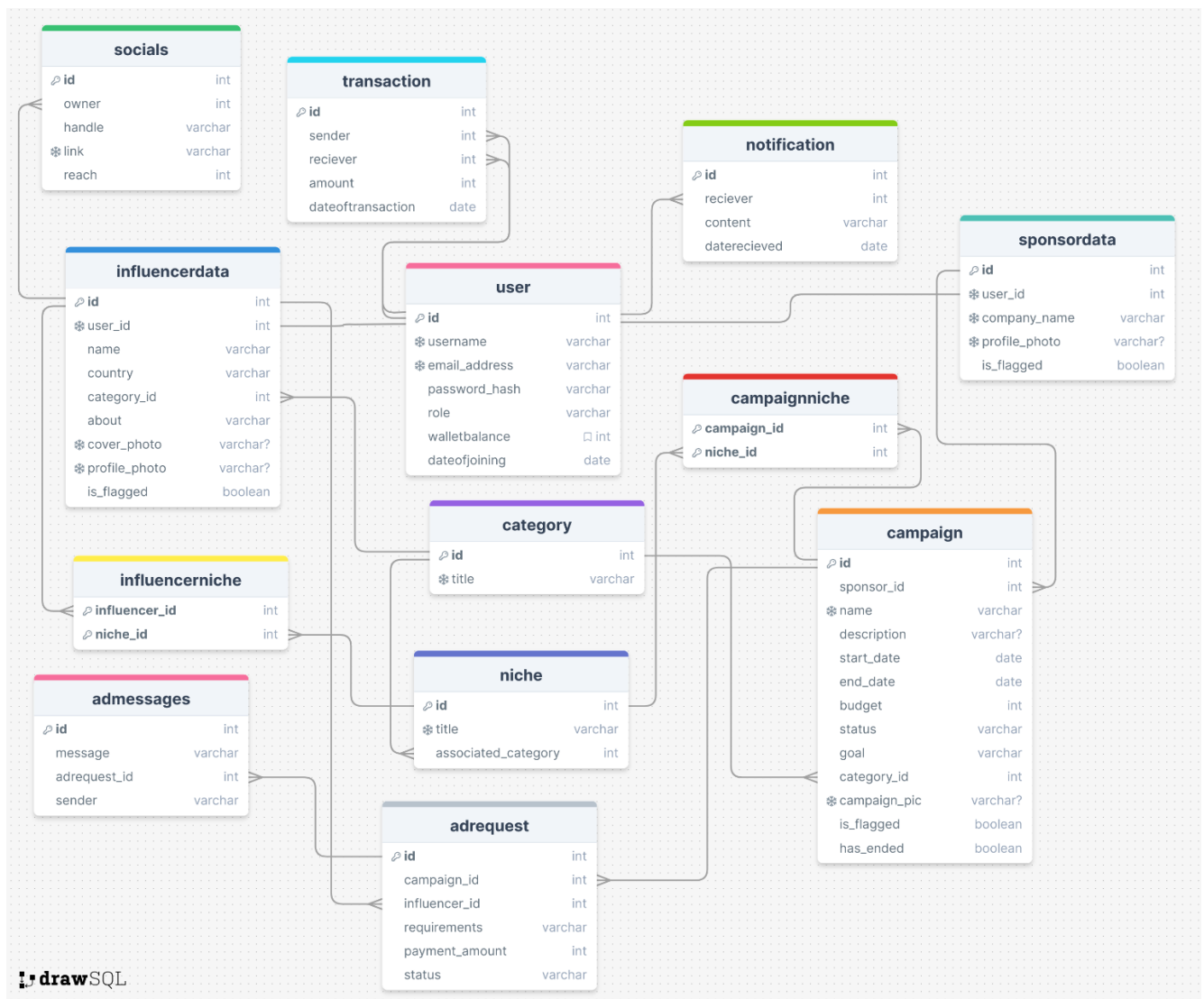
- **Technology Used:**
  1. Python Flask Framework –Backend framework on which the application is built on.
  2. SQLite – Database used for the application.
  3. Flask-Sqlalchemy – ORM for the database, in the flask application.
  4. Flask-wtf – For backend form validations, front end form generations and html-level validations.
  5. Flask-login & Flask-bcrypt – For secure login functionality and password hashing.
  6. Jinja2 – Providing HTML templating.
  7. HTML, CSS – Frontend of the application.
  8. Javascipt – Little dynamic behavior on the frontend side.

- **Project Architecture:**
  1. Bash files to setup/run the application along with git configuration files and original python files to run the app, in the main folder.
  2. Instance folder (holding the database) inside the main folder.
  3. Folder named "collabhub" which is a python package containing:
     a. __init__.py: Configurations and setups.
     b. models.py: Containing Database models.
     c. forms.py: Containing Forms, validation functions.
     d. 3 routes.py: Containing flask-routes.
     e. Templates folder: Contains jinja HTML templates.
     f. Static folder: Contains CSS style files, Some Javascript script files, Some stock images (logo, favicon etc.), and the uploads directory to which profile pics are uploaded.

- **Database Schema:**

- **Project Features:**
  1. Influencer – Can login, Configure public profile, Add and Update links to social media accounts, Add/Withdraw wallet money, View money transaction log, Search for public campaigns, Apply for Ad requests to sponsors, View notifications. Can accept/reject Ad requests or sent them back to sponsor for Negotiation, View platform statistics.
  2. Sponsor – Can login, Update profile, Create/Update/Delete Campaigns, Search for influencers, Make Ad Requests to influencers, Respond to incoming requests, Update Ad requests on negotiation requests, Add/Withdraw Wallet money, View notifications, View platform statistics.
  3. Admin – View Platform statistics, View/Flag Users, View/Flag Campaigns, Create Categories/Niches, View Notifications, Send Notifications to users.

- **Video Link:**
  https://drive.google.com/file/d/1VH4L11EbCJGhjIFx1zs_6gCjD8-hHeHP/view?usp=sharing