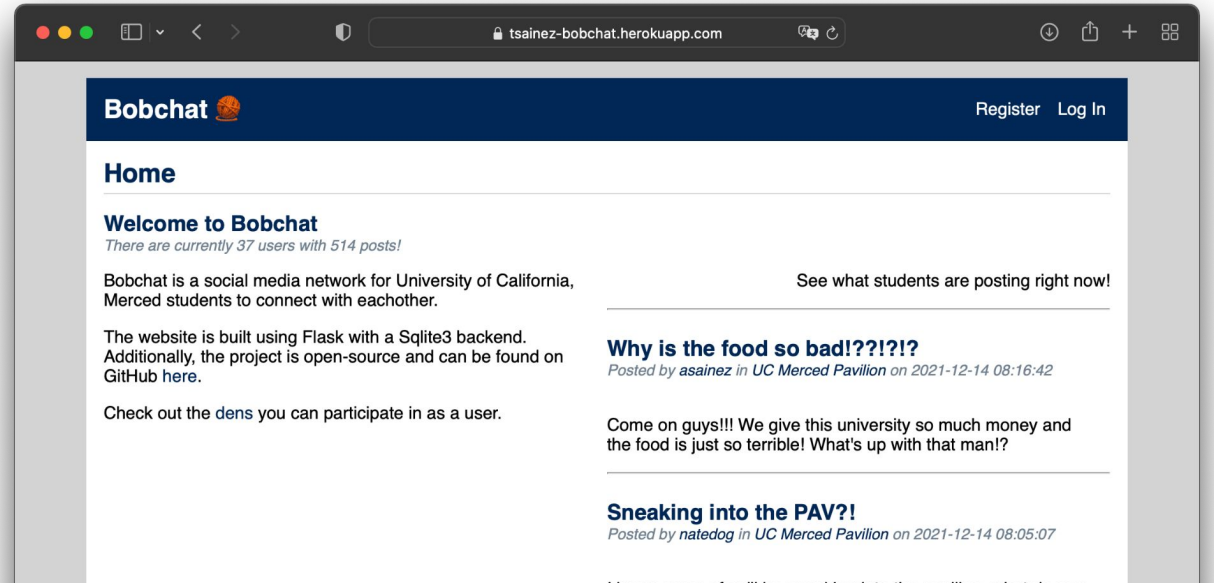
# Bobchat

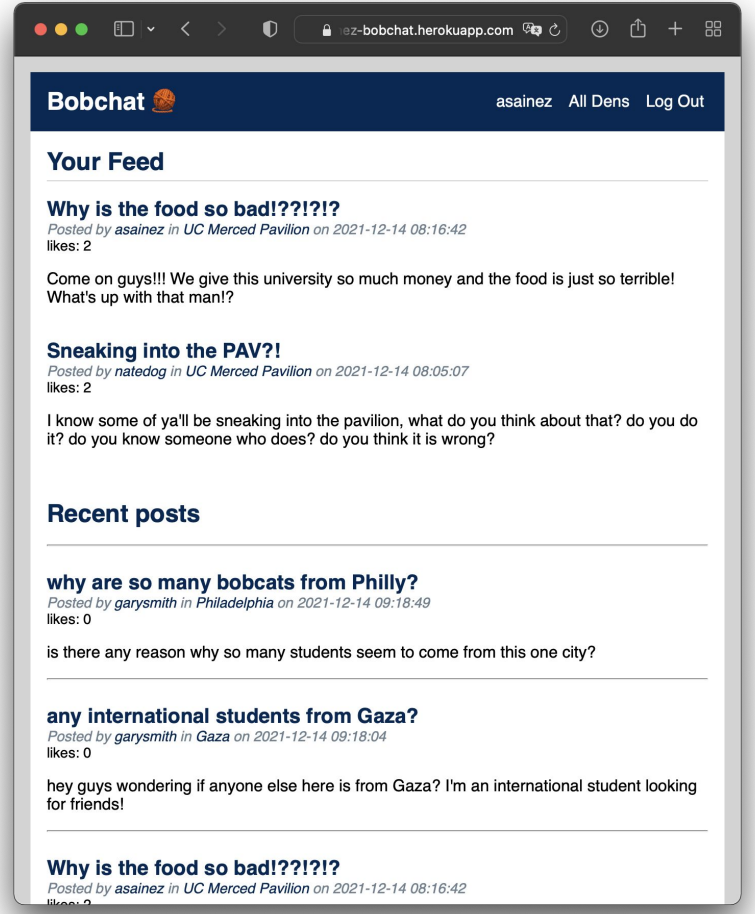
A social media network for
the University of California, Merced

# Interactive Reddit-like social media website

- Users can make posts in dens, like and comment on posts, and make all new dens (communities) to follow and share!



# View your personalized feed



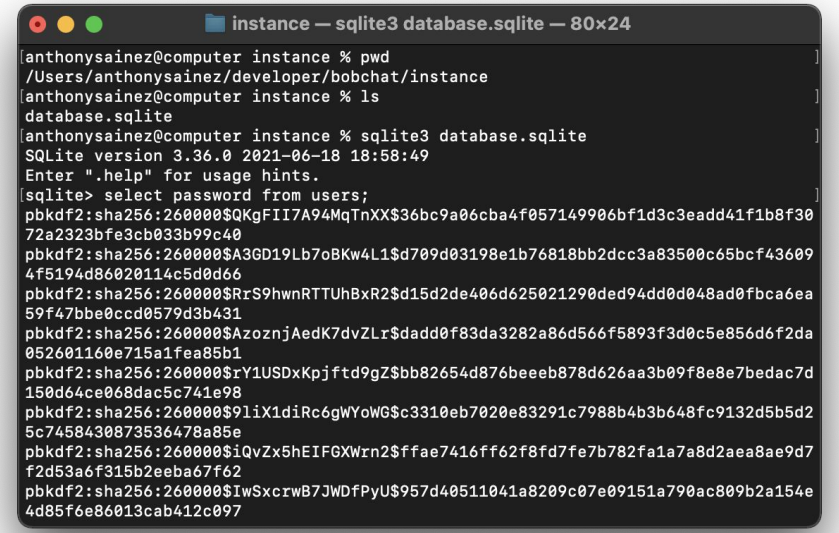
<interactive demo>

# Front-end handled by Flask

- used several Patterns for Flask
  - Flask application is managed by a Flask Application Factory.
  - Pages with similar themes are handled by Blueprints, which makes routing for rendering the associated content from templates easier.
- Python WSGI HTTP server handled by Gunicorn for production, Werkzeug for development.

# Backend handled by Python's `'sqlite3'` library

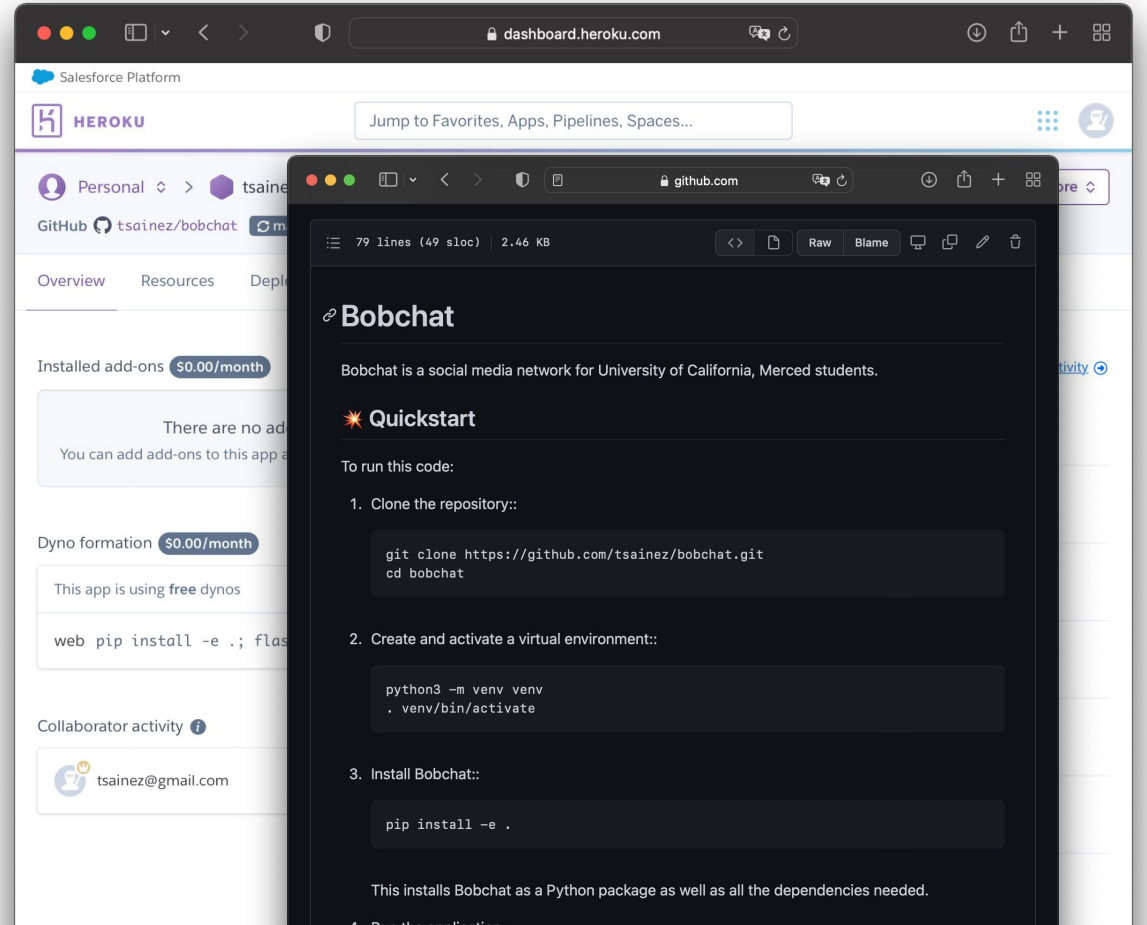
- One Python file, `db.py` provides a way to initialize and handle a connection to the sqlite database.
  - Provides you with a database connection object, with which you can execute SQL queries directly and commit changes.
  - Results of SQL queries can be retrieved and stored in the Python environment and redirected to the front-end Flask framework for rendering HTML templates.
  - SQL queries are automatically sanitized by Flask, so SQL-injection attacks are not possible.
  - Passwords are automatically **salted and hashed**, and authenticating users and handling sessions is secure.



# Hosted on Heroku

Since Bobchat is installable as a Python package, installing dependencies is easy and running the project on other machines is easy.

It is open-source and available on GitHub with extensive documentation, and automatically deployed to Heroku.



<code demo>