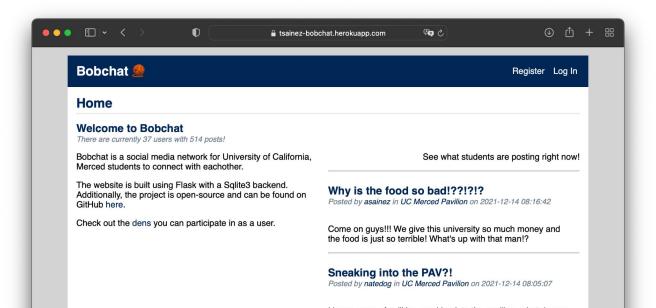
Bobchat

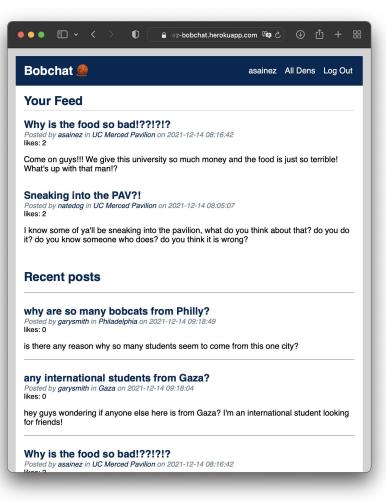
A social media network for the University of California, Merced

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 <u>Flask</u>
 <u>Application Factory</u>.
 - Pages with similar themes are handled by <u>Blueprints</u>, which makes routing for rendering the associated content from templates easier.
- Python WSGI HTTP server handled by <u>Gunicorn</u> for production, <u>Werkzeug</u> for development.



Backend handled by Python's 'sqlite3' library

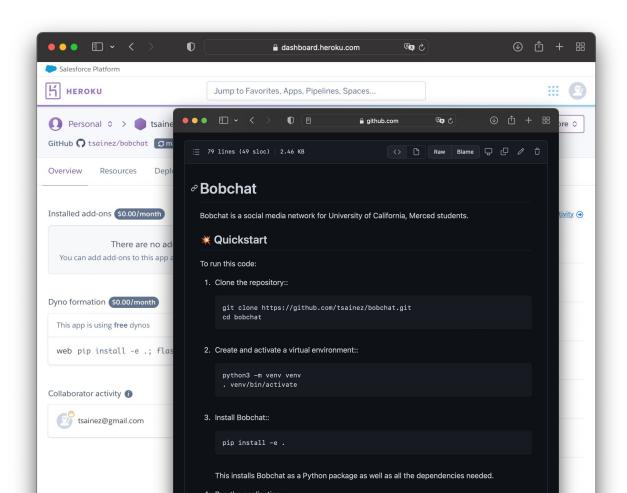
- One Python file, db.py provides a way to initialize and handle a connection to the sqlite database.
 - Provides you with a database connection object, with which you can execute SQL queries directly and commit changes.
 - Results of SQL queries can be retrieved and stored in the Python environment 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.

```
📄 instance — sqlite3 database.sqlite — 80×24
anthonysainez@computer instance % pwd
/Users/anthonysainez/developer/bobchat/instance
[anthonysainez@computer instance % ls
database.sqlite
[anthonysainez@computer instance % sqlite3 database.sqlite
SQLite version 3.36.0 2021-06-18 18:58:49
Enter ".help" for usage hints.
sqlite> select password from users;
pbkdf2:sha256:260000$QKgFII7A94MqTnXX$36bc9a06cba4f057149906<u>bf1d3c3eadd41f1b8f30</u>
pbkdf2:sha256:260000$A3GD19Lb7oBKw4L1$d709d03198e1b76818bb2dcc3a83500c65bcf43609
4f5194d86020114c5d0d66
pbkdf2:sha256:260000$RrS9hwnRTTUhBxR2$d15d2de406d625021290ded94dd0d048ad0fbca6ea
59f47bbe0ccd0579d3b431
pbkdf2:sha256:260000$AzozniAedK7dvZLr$dadd0f83da3282a86d566f5893f3d0c5e856d6f2da
052601160e715a1fea85b1
pbkdf2:sha256:260000$rY1USDxKpjftd9gZ$bb82654d876beeeb878d626aa3b09f8e8e7bedac7d
150d64ce068dac5c741e98
pbkdf2:sha256:260000$91iX1diRc6gWYoWG$c3310eb7020e83291c7988b4b3b648fc9132d5b5d2
5c7458430873536478a85e
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f2d53a6f315b2eeba67f62
pbkdf2:sha256:260000$IwSxcrwB7JWDfPyU$957d40511041a8209c07e09151a790ac809b2a154e
4d85f6e86013cab412c097
```

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 <u>GitHub</u> with extensive documentation, and automatically deployed to <u>Heroku</u>.



<code demo>