

CMSC 447-04 CURD Application (HW2)

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Versions used

- python: 3.8.0
- pyenv: 2.3.11
- pip: 23.0.1
- npm: 9.6.0

Setup notes

1. Clone/receive repo
2. Set up virtualenv with python, pyenv, pip
3. Set up npm
4. `cd back/`, install Python dependencies: `pip install flask flask-sqlalchemy`
5. Start Flask server: `python3 app.py`
6. New terminal, `cd front/`, `npm install && npm start`
7. Get taken to `localhost:3000/menu` as a result

App usage notes

Fill out all fields in each column & then press the button beneath, either to create a new entry, search an entry, or delete one.

- Negative numbers will be blocked everywhere.
- IDs < 1 will be blocked.
- Partial submissions will be blocked.
- Duplicate IDs will be blocked (user creation).
- Search strings are exact.
- If not found (searching/deleting), message is given.
- If found (searching), record details shall be shown.

Design notes

Layout: Fanciness not requested, bare minimum CSS flex-grid.

Database: Persistence not requested. On Flask server start, restarts with the default start data. SQL Alchemy utilized.

In-use database stored @ `back/instance/site.db`, generated on Flask server start.

Noteworthy files for grading

1. `back/app.py`, Flask server & database classes/handling.
2. `src/App.js`, routes.

3. `src/Menu.css`, flex-grid layouts.
4. `src/Menu.js`, primary front-end.

Other automatically generated HTML/CSS/JS files in `src/` from running `npx create-react-app`, `gitignore`s, & everything in `public/` aren't important.

Miscellaneous notes: `css-select` $\leq 3.1.0$ vuln solution

<https://github.com/facebook/create-react-app/issues/12132>