Community Services App

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System Description: Main Menu

Our project utilizes a database that is filled with resources and is catered for people in underserved communities. The following are the services our app offers: **Food Pantries, Clothing Banks, Soup Kitchens, Medical Assistance Services, Daycare Services,** and **Homeless Shelters**

Users can find services based on *zip code, city* and *county*.

Each service has the following information stored in our database:
- *Service name*
- *Address*
- *State*
- *City*
- *County*
- *Zip code*
- *Phone Number*
- *Days/Times available*
- *Website url*

Users can also look up the **managers** working at each service and the **customers** that are subscribed to that service.

'Create and Edit Profiles (Admin Only)' is an **admin only** option, which means the admin will be asked to login with admin credentials.

System Description: Admin

- Admins can search up any profile in the managers and subscribers database and make changes.

- The role of admin is simply to authorize the edit, create and delete function, which gives them the opportunity to modify the managers and subscribers table.

- Currently, there are only 3 people who can make changes, including us, who can login and use the admin features.

- The reason that 'Delete User Profile' and 'Delete Manager Profile' are red is because if any user or manager is deleted, they are permanently deleted and their information cannot be retrieved after being deleted.

Login Credentials for Professor and TA

- For demonstration purposes, our team developed a login username and password for the professor and TA so that they may utilize the admin feature.

- LOGIN:
  - Username: **Teacher**
  - Password: **CSE111Database2021**
  - **These login credentials are not meant to be shared with anyone outside of the teaching staff.**
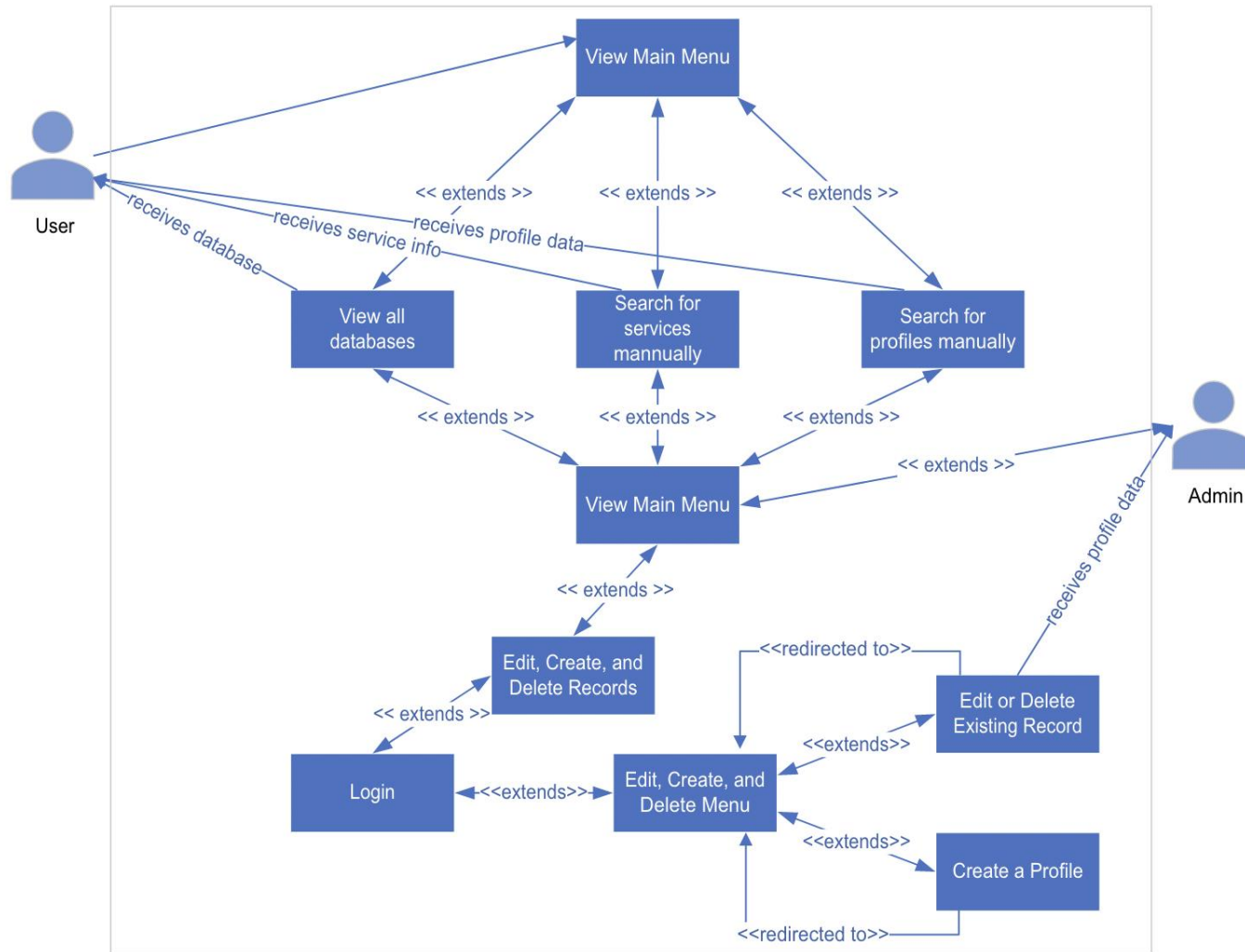
- Visit webapp at
  - https://nightraven.pythonanywhere.com/
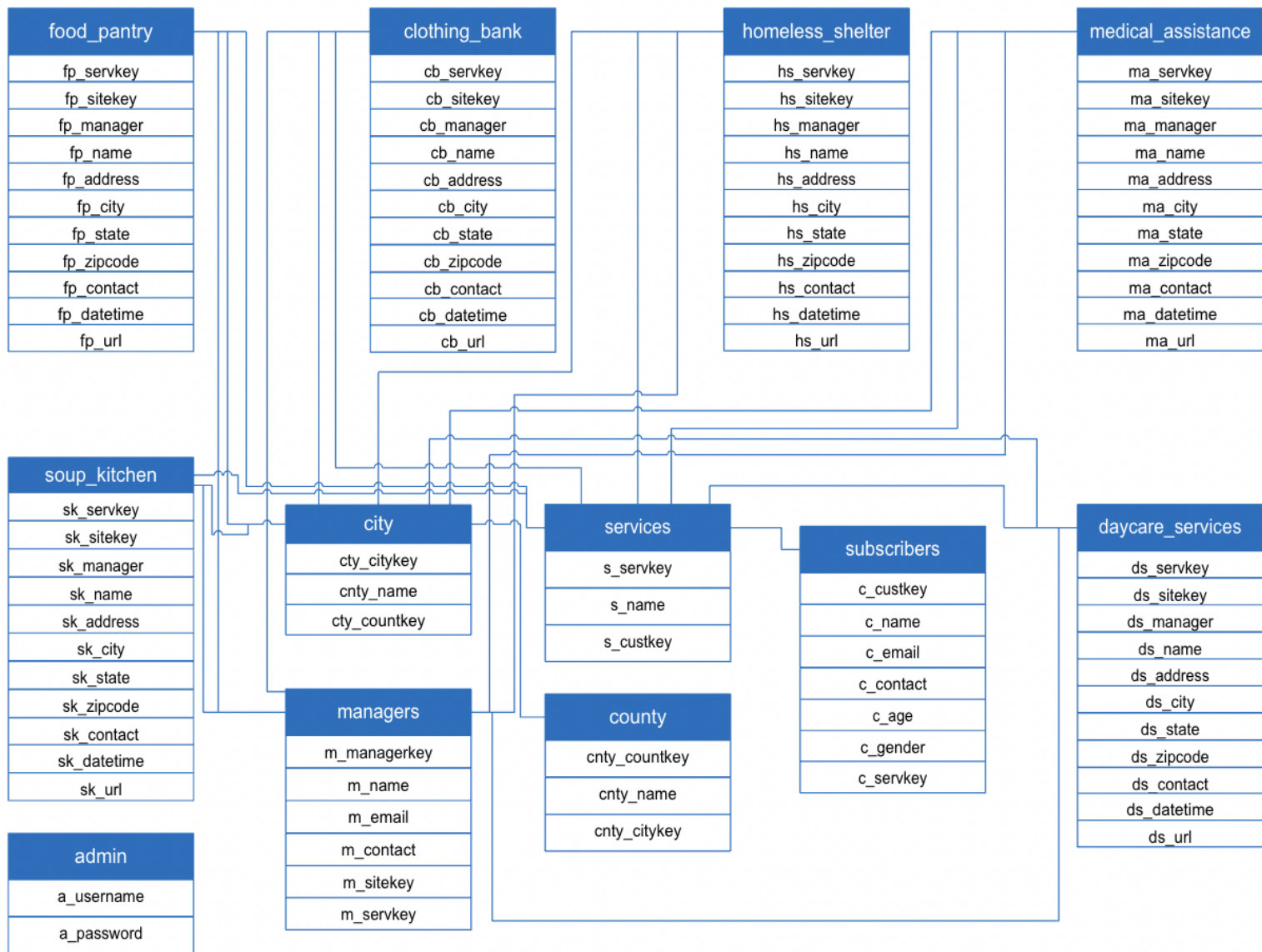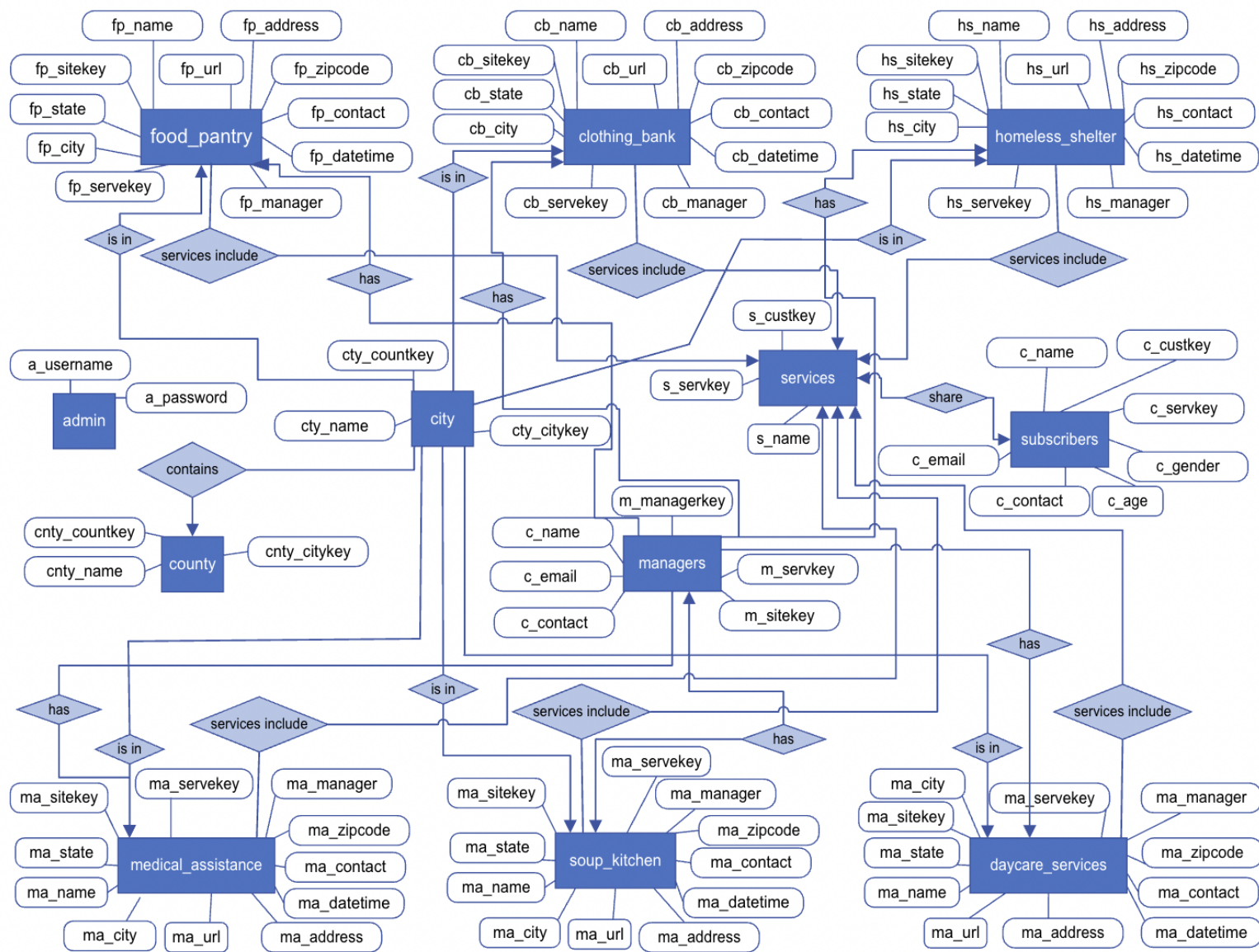
Use-Case Diagram

Relational Schema

ER-Diagram

Implementation Details

- IDE: Visual Studio Code.
  - Useful for collaborative production of code and scripts.
  - 'Live Share' feature was useful because it lets multiple users modify the same document in real time on separate systems.
- Database Handler: SQLite.
  - Databases are created, modified, and managed with SQLite commands and queries.
- Executed on a webpage using Python, HTML, CSS.
- Python handles queries using the sqlite3 library. Flask handles the presentation of data.
  - Python was useful because data can be retrieved in many ways needed by the user using SQLite commands.
  - Flask makes data presentable possible. The 'render_template' library gave us the flexibility to use HTML and CSS with Python, meaning we could create tables, menus, and produce meaningful redirects based on user input.
- Github repository:
  - https://github.com/alejandrohsanchez/Community-Shelter-and-Food-Pantry-Data-Logger

Demo