Team MADE-in-China

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Restaurant Reservations Manager
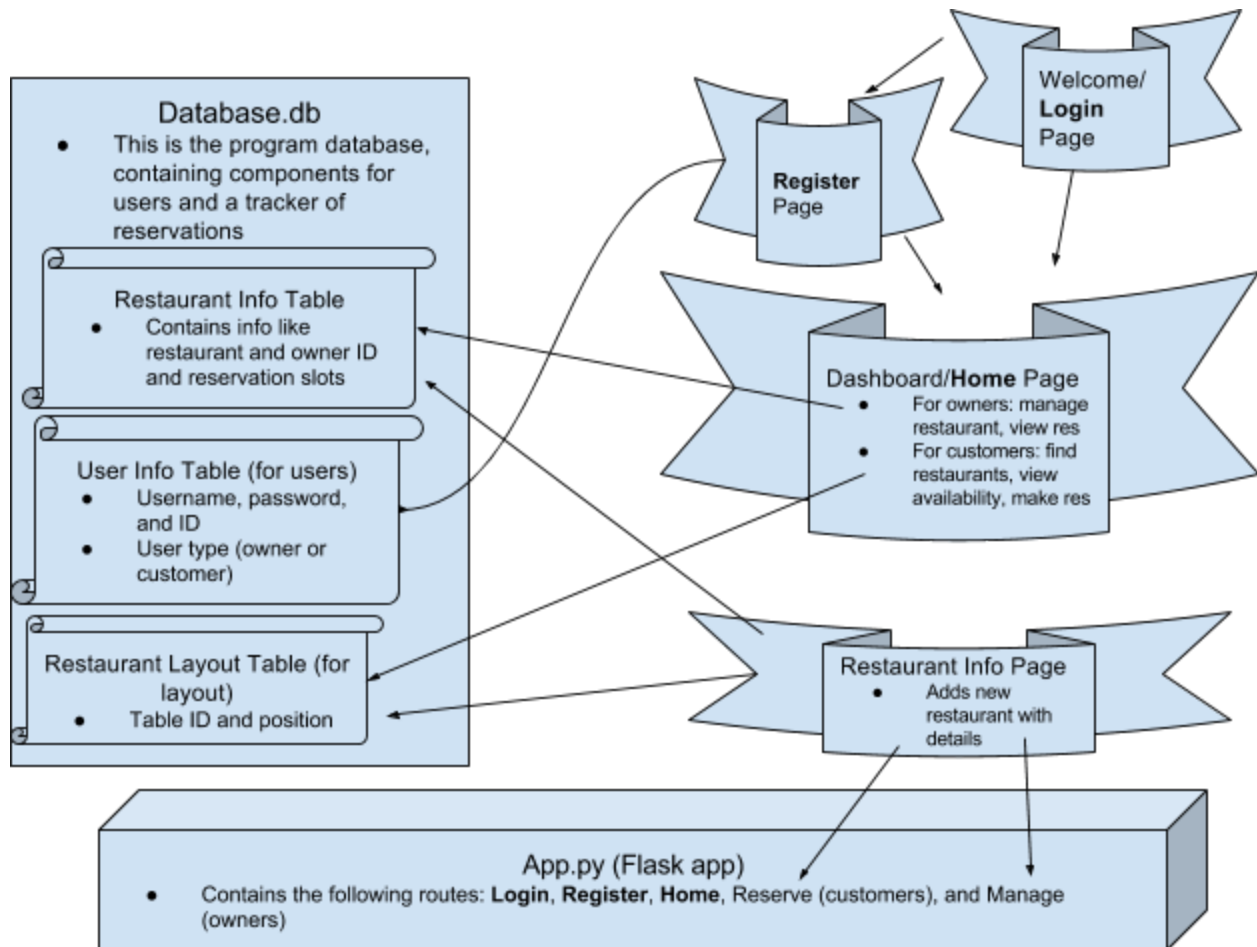
SoftDev Period 8

Program Components:

- Database (database.db)
    - Restaurant Info Table (restaurant)
        - Restaurant Name and ID Number, owner ID, and reservation slot intervals and lengths , grid size
    - Reservation Info Table (reservations)
        - Restaurant ID, customer ID, table, month, day, time
    - Restaurant Layout Table (layout)
        - Restaurant ID, Table ID, number of seats, squares included
    - User Info Table (users)
        - Username, password, user ID, user type (owner or customer)
- Templates
    - Welcome/ Login Page
    - Register Page
    - Dashboard/Home Page
        - If customer account:
            - Find restaurants
            - View availability/make reservation
        - If owner account:
            - Manage your restaurants (e.g. view made reservations)
    - New Restaurant Page (for owners)
        - Add new restaurant w/ details
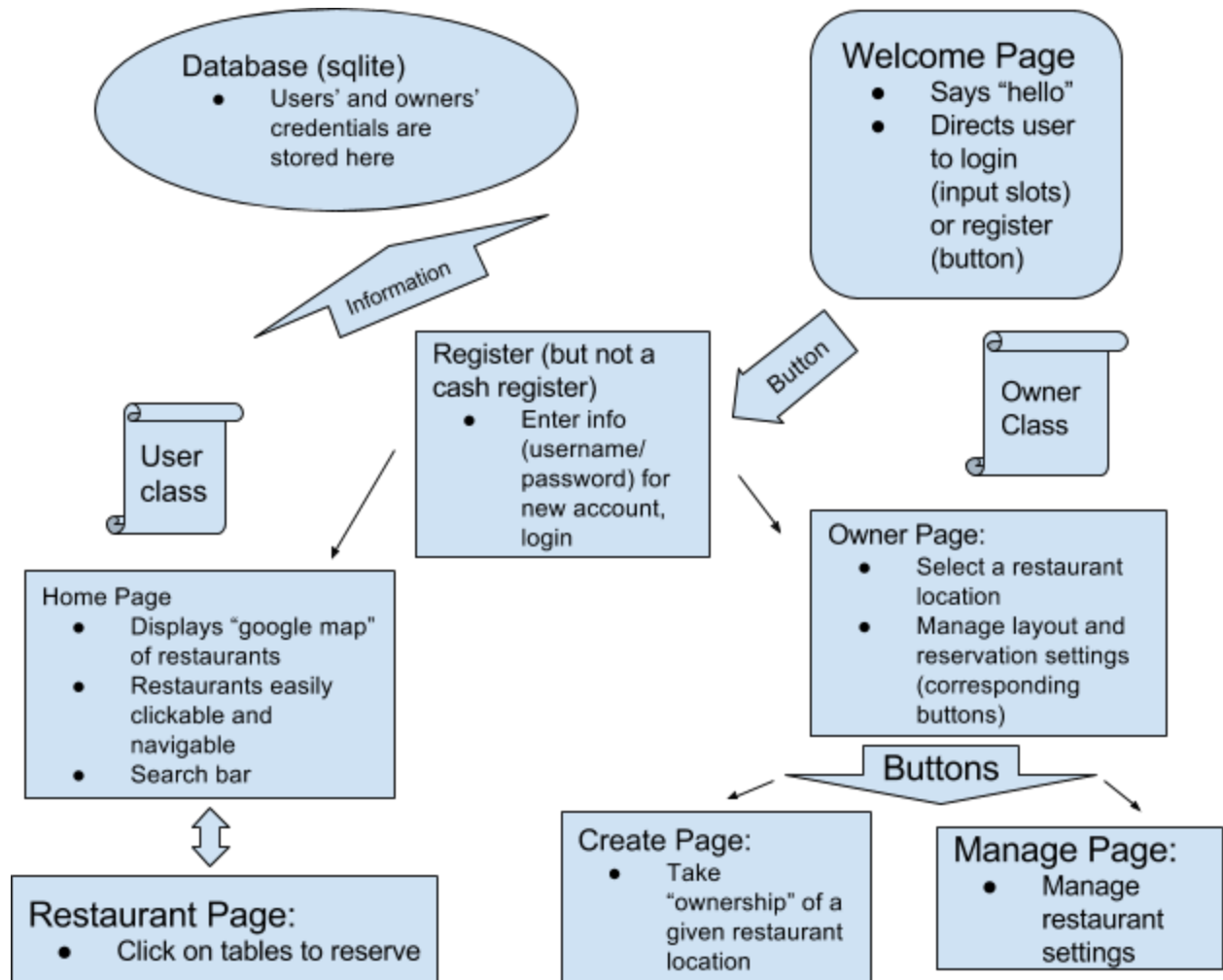- App.py
    - Flask app

○ Routes

    ■ Login

    ■ Register

    ■ Home

    ■ Reserve/Manage

Component Map:

Note: **bolded** components of the same name are linked (e.g. the Login route will run the script for the Login page)

Site Map:

Database (sqlite)
- Users' and owners' credentials are stored here

Welcome Page
- Says "hello"
- Directs user to login (input slots) or register (button)

Information

Button

Register (but not a cash register)
- Enter info (username/ password) for new account, login

User class

Owner Class

Owner Page:
- Select a restaurant location
- Manage layout and reservation settings (corresponding buttons)

Home Page
- Displays "google map" of restaurants
- Restaurants easily clickable and navigable
- Search bar

Buttons

Restaurant Page:
- Click on tables to reserve

Create Page:
- Take "ownership" of a given restaurant location

Manage Page:
- Manage restaurant settings

Database Schema:

Restaurant table:

Restaurant ID (INT)	Restaurant Name (STR)	Owner ID (INT)	Reservation Slot Interval (INT)	Reservation Length (INT)	Grid x Size (INT)	Grid y Size (INT)
0	'Garlic'	0	15	120	50	50
...	...	...	...	...	...	...

Reservation table:

Restaurant ID (INT)	Customer ID (INT)	Table ID (INT)	Month (INT)	Day (INT)	Time (STR)
0	1	0	12	25	'18:15'
....	...	...	...	...	...

Restaurant Layout table:

Restaurant ID (INT)	Table ID (INT)	Seats (INT)	Squares (BLOB)
0	0	4	[(0,0), (1,0), (2,0)]
...	...	...	...

User Info table:

User ID (INT)	Username (STR)	Password (STR)	User Type - customer(0) or owner(1)? (INT)
0	'Boss'	'pass0'	1
1	'Consumer'	'pass1'	0
...	...	...	...

Task Breakdown:

Order of Tasks:

1. Setup (Flask)- Eric

2. Login/registration (Flask/HTML/SQLite) - Angel/Eric/Masha

3. Restaurant layout creation

    a. basic restaurant information (HTML/Python) - Angel/Eric

    b. front end interface for layout (Python/JScript) - Dimitry/Eric

    c. storing the restaurant data (SQLite/Python) - Masha

4. Reservations

    a. Placing the reservation (Python/JScript) - Dimitry/Eric

    b. Storing reservations - Masha

5. Accessing reservations (JScript/Python) - Dimitry/Eric

6. Changes to restaurant (SQLite) - Masha

Other:

- HTML/CSS - Angel, as needed

Possible Features:

- Map integration

Note: Step 3 will take the bulk of time.

Uber but like for reservations

some cool picture

descriptions

go register

login
stuff

Register

some equally
cool picture

register form

register