PulsePlus v2
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P3 - ArRESTed Development, JuSt in Time
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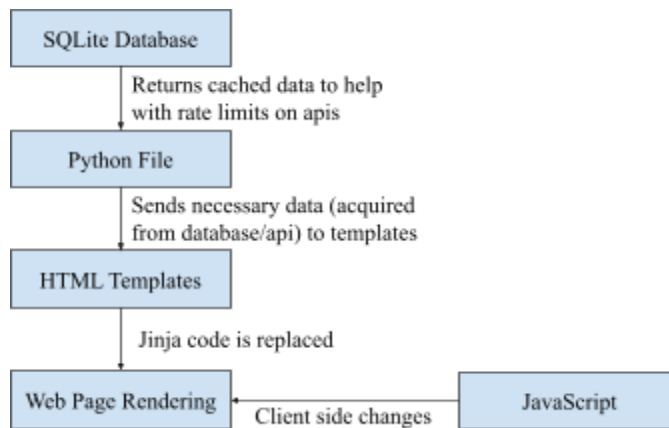
Program Components

- **Flask**: The framework for the web-based app which connects the frontend to the backend
- **SQLite Database:** Caches information from API requests to help lessen requests and decrease chances of reaching rate limits
- **HTML, CSS, and Jinja**: Styles the frontend pages and also displays movies and food suggestions to the user
- **Python file**: Connects Flask with SQLite and our web pages
- **Bootstrap**: Adds extra styling to HTML pages
- **JS**: Allows for client-side interactions that doesn't require the webpage to restart (Dropdown menus for checkboxes and search bars)

APIs:

- NYT Movie Reviews
    - Provide reviews for searched movies
    - https://github.com/stuy-softdev/notes-and-code20-21/blob/master/api_kb/411_on_NYT_APIs.md
- MovieDB
    - Provide movies given a search query or selected genres
    - https://github.com/stuy-softdev/notes-and-code20-21/blob/master/api_kb/411_on_MovieDB.md
- Yelp
    - Provides information on nearby restaurants given a zip code
    - https://github.com/stuy-softdev/notes-and-code20-21/blob/master/api_kb/411_on_YelpFusionAPI.md
- Edamam
    - Provides recipes given a query
    - https://github.com/stuy-softdev/notes-and-code20-21/blob/master/api_kb/411_on_Edamam.md

Component Map

Databases

Reviews table:

Title	Review
Text (Primary Key)	Text

Recipes table:

URL	Title	Image
Text	Text	Text

Restaurants table:

Name	Cuisine	Ratings	Review	Phone Number	Website	Zip Code
Text	Text	Int	Text	Text	Text	Int

Site Map

Home Page

- All features are accessible through the homepage
    - There will be a checkbox for different genres of films that the user wants to watch, that will then show a listing of films and their reviews in that genre(s)
    - Underneath the film would be recommendations of restaurants or recipes to food
    - Search bar to search for a specific movie through its title and returning reviews and recommended food

Breakdown of Tasks + Deadlines
- Victoria: HTML forms, CSS and Bootstrap
    - 04/23 - Have basic HTML
    - 04/25 - Add instructions above fields about format of inputs, warning messages
    - 04/26 - Add CSS and style webpages
- Ryan: Recipes-related API, databasing, JS
    - 04/25 - be able to return a random recipe from the API given cuisine type
    - 04/26 - Write functions to cache data from APIs
- Renee: Restaurant-related API, databasing, JS
    - 04/25 - be able to return a random restaurant from the API given cuisine type
    - 04/26 - Write functions to cache data from APIs
- Pak: Movie-related API, databasing, and JS
    - 04/25 - be familiar with API and be able to search for movies on the API and their reviews, then return that data to the website
    - 04/26 - Write functions to cache data from APIs
- 04/27, "functioning" website
    - Test for bugs and functionality