

Dark Lord Chuckles The Silly Pig: Thomas Zhang, Lauren Lee,  
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SoftDev Pd 7  
P04 -- Data  
2023-04-28

**Target Ship Date: 2023-05-23**

**Idea:**

- Based on user input, determine the probability of the user getting a stroke or lung disease
- Visualize the user's probabilities of stroke and lung disease using line charts
- Provide recipes for users trying to create a diet plan

**Files Needed:**

- HTML Files:
  - register.html
  - login.html
  - home.html
  - questionnaire.html
    - Health questions the user can answer (forms should avoid text response for easier matching with data sets) - questions can be option-based to determine what information is considered
      - Questions such as age, gender, health habits
  - results.html
    - Shows your inputted info
    - Displays health results in line graphs
      - Graphs represent the probability of the user being diagnosed with a stroke or lung cancer over time based on health results
      - User can select which factors to account for
  - recommendations.html
    - Enter an ingredient and receive recommendations for food
      - includes links to recipes

- CSS Files:
  - style.css
    - Extra CSS if needed
- JS Files:
  - script.js
    - used chart.js for visualizations
    - Controls how the user interacts with the page
- Python Files:
  - heart.py, lung.py
    - Uses the questionnaire information to display the probability of being diagnosed with a stroke or lung cancer
      - Will use pandas to manipulate data
  - \_\_init\_\_.py
    - Flask app
- SQLite Database:
  - userinfo.db

User	Password
darkLord	sillyPig

- stroke.db

id	gender	age	disease	bmi	status	stroke
1	Male	15	yes	20	never smoked	4.73

- stroke\_question.db

user	name	height	weight	sex	age	heart	smokes
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darkLord	Chuckles	40	80	Male	15	0	never smoked
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- lung.db

id	age	gender	airpollution	alcohol use	smoking	text
1	15	male	4	8	7	medium

- lung\_question.db

user	name	height	weight	sex	age	alcohol	pollution	smokes
darkLord	chuckles	40	80	1	15	4	4	4

- food.db

user	label	calories	mealtype	cuisine type	url	image
darkLord	chicken	1000	breakfast	american	chicken recipe.com	image

- API Files:

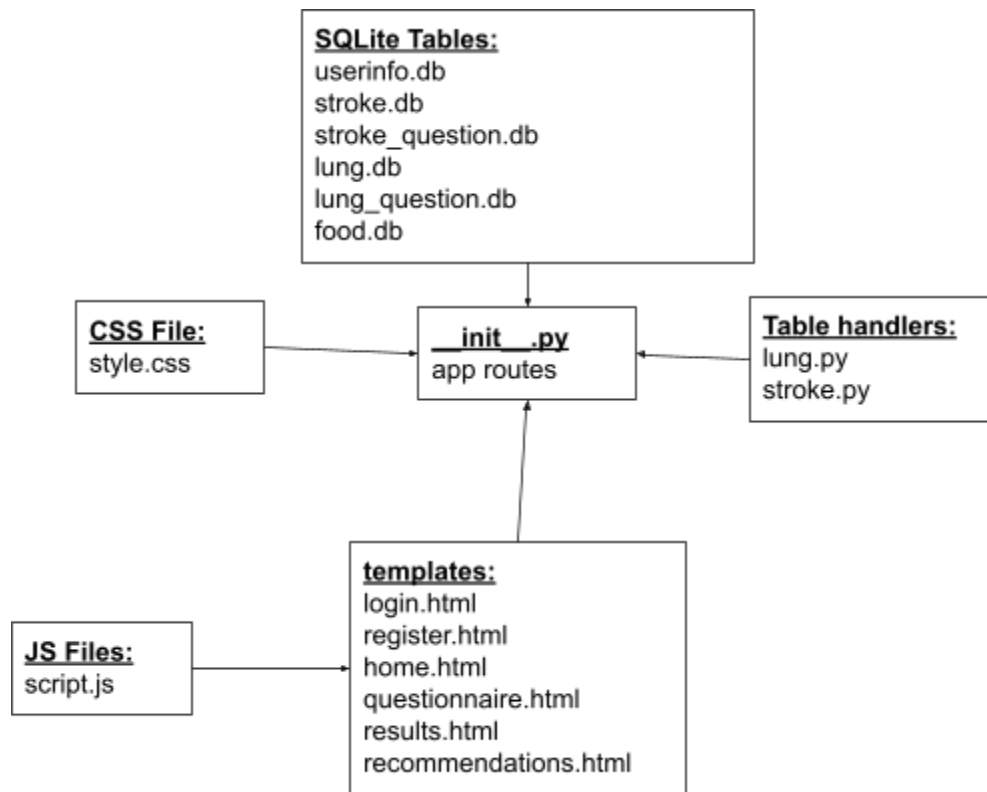
- Recipes API

- Give user a specific type of diet such as high-protein
- Restrictions such as vegetarian and gluten free
- Range of calories

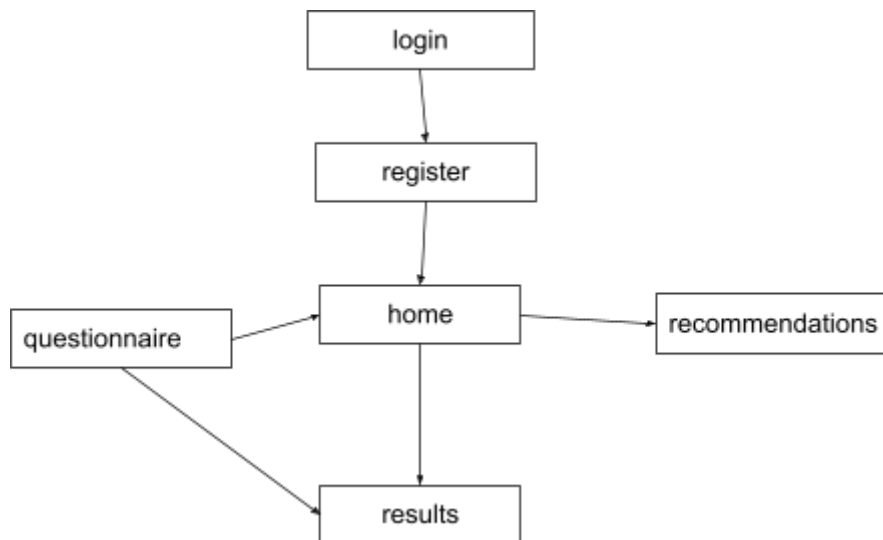
### Front End Framework: Bootstrap

- Intend to incorporate bootstrap cards
- Bad experience with Foundation last project

## Component Map:



## Site Map:



## Tasks:

- ☒ ~~Login Page (Thomas, Diana)~~
- ☒ ~~Create Account/Registration Page~~

- ☒ ~~Login Page/Authentication~~
- ☒ ~~Home Page (Diana)~~
- ☐ Questionnaire Page (Lauren, Diana)
  - ☒ ~~Stroke Questionnaire~~
    - ☒ ~~Text: Name~~
    - ☒ ~~Number: Height~~
    - ☒ ~~Number: Weight~~
    - ☒ ~~Radio: Sex~~
    - ☒ ~~Number: Age~~
    - ☒ ~~Radio: Have you ever had a heart disease?~~
    - ☒ ~~Radio: Have you ever smoked before?~~
  - ☐ Lung Cancer Questionnaire
    - ☒ ~~Text: Name~~
    - ☒ ~~Number: Height~~
    - ☒ ~~Number: Weight~~
    - ☒ ~~Radio: Sex~~
    - ☒ ~~Number: Age~~
    - ☒ ~~Range: How would you rate your alcohol intake on a scale of 1-8 (1 = nondrinker, 8 = chronic drinker)?~~
    - ☒ ~~Range: How would you rate the air pollution of your living environment (1 = no pollution, 8 = severe pollution)?~~
    - ☒ ~~Range: How would you rate your smoking level from 1-9 (1 = nonsmoker, 8 = chronic smoker)?~~
- ☒ ~~Results Page (Thomas, Lauren, Diana)~~
  - ☒ ~~Determining BMI~~
  - ☒ ~~Questionnaire form to SQLite table~~
  - ☒ ~~Stroke Graph:~~
    - ☒ ~~Integrate Stroke Prediction Dataset~~
    - ☒ ~~Display results as a graph visualization~~
  - ☒ ~~Lung Cancer Graph:~~
    - ☒ ~~Integrate Lung Cancer Prediction Dataset~~
    - ☒ ~~Display results as a graph visualization~~

- ☒ ~~Recommendations Page (Diana)~~
  - ☒ ~~Determining diet recommendations~~
    - ☒ ~~Integrate EDAMAM Recipe API~~
    - ☒ ~~Display food as Bootstrap cards~~
- ☒ ~~CSS -- Make everything look nice and snazzy .D~~

#### **APIs:**

- [EDAMAM Recipe API](#)

#### **Dataset:**

- [Stroke Prediction Dataset](#)
- [Lung Cancer Prediction Dataset](#)

#### **Ted Tools to Use:**

- Pandas

#### **Stretch Goals:**

- Utilize the Google Calendar API to create a custom diet/exercise calendar for each user