

Dark Lord Chuckles The Silly Pig: Thomas Zhang, Lauren Lee,
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SoftDev Pd 7
P04 -- Health and Diet Recommendations
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 cancer
- Visualize the user's probabilities of getting a stroke and/or lung cancer using line charts
- Provide recipes for users trying to create a diet plan

Files Needed:

- HTML Files:
 - register.html
 - login.html
 - home.html
 - stroke_question.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 in tables
 - 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/cuisine
 - Includes links to recipes

- CSS Files:
 - style.css
 - Extra CSS if needed
- JS Files:
 - script.js
 - Uses 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 Databases:
 - 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
darkLord	Chuckles	40	80	male	15	0	never smoked

- lung.db

id	age	gender	airpollution	alcoholuse	smoking	level
1	15	male	4	8	7	medium

- lung_question.db

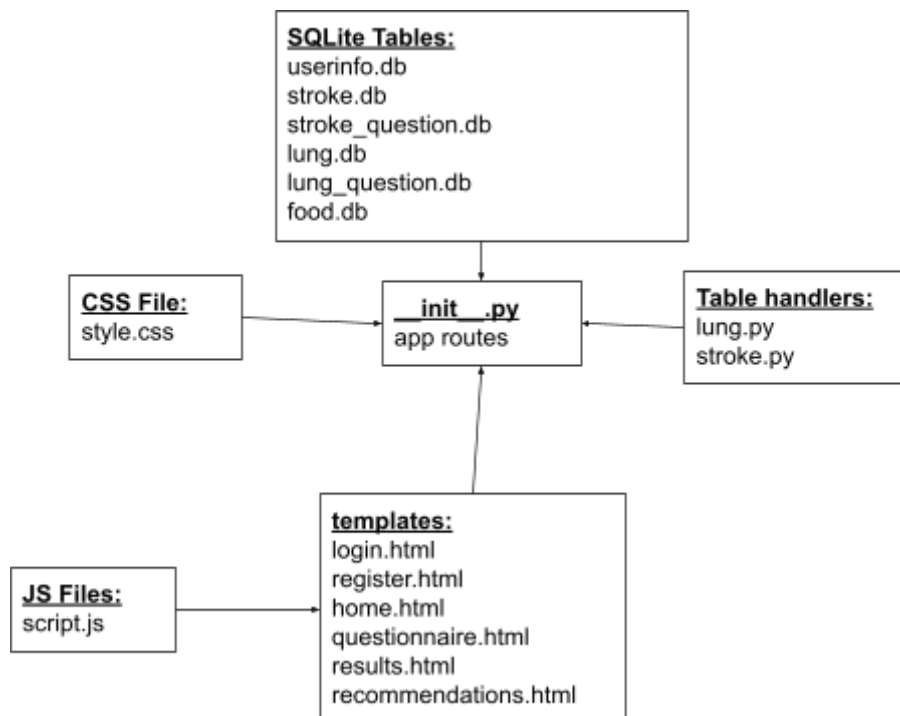
user	name	height	weight	sex	age	alcohol	pollution	smokes
darkLord	Chuckles	40	80	1	15	8	4	7

- food.db

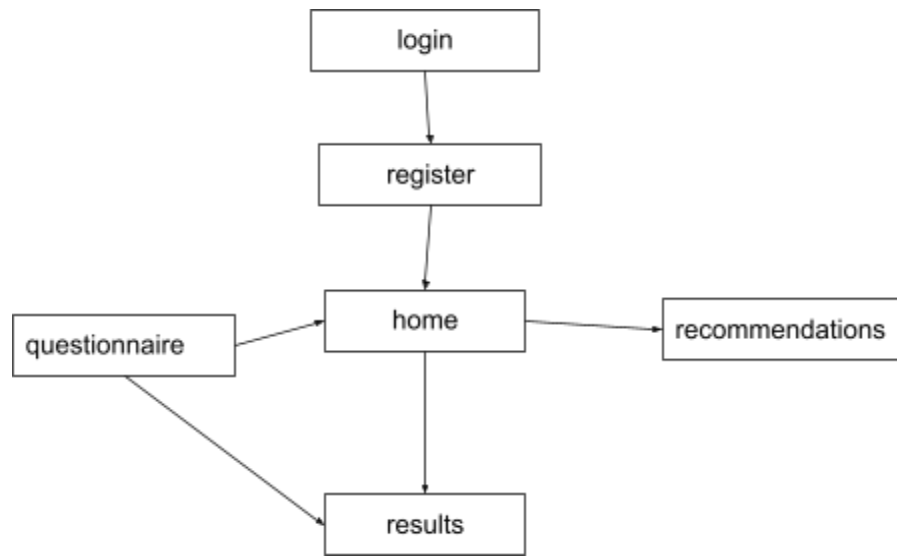
user	label	calories	mealtype	cuisinetype	url	image
darkLord	chicken	1000	lunch	american	chickenrecipe.com	chicken.jpg

- API Files:
 - key_api0
 - key_api1

Component Map:



Site Map:



Front End Framework: Bootstrap

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

Tasks:

- ☒ ~~Login Page (Thomas, Diana)~~
 - ☒ ~~Create Account/Registration Page~~
 - ☒ ~~Login Page/Authentication~~
- ☒ ~~Home Page (Diana)~~
 - ☒ ~~Style home page~~
 - ☒ ~~Logout button~~
- ☒ ~~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