



# Menu- Generator

Pipeline Academy - Portfolio Project  
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2021

Have you ever  
wonder...



Where can I find the ingredients  
for this recipe?

What are the quantities in the  
metric system?

Can I get set recipes that  
contains a menu based on my  
nutritional needs?

Oh! I have X ingredients, What  
can I cook with it?

## The Problem

- Failure at identifying their user's nutritional needs.
- There are several cooking apps mostly focus on the USA market.
- Too expensive apps with lacking information about the European system.
- Recipe only based on basic keyboards.
- Shopping list are not linked to real data bases.



# The Proposed Solution

- Create an application that provides recipes and menus based on your own personalized nutritional needs like, calories, macros, diets, etc.
- Create a shopping list with the ingredients in the chosen plan.
- Integrate the shopping list with known vendors that provides grocery shopping and/or delivery.
- Get ingredients in the Metric System.

# How to make this happen?

Data Acquisition



By daily Scrapping Data from  
Spoonacular API

Transform the Data



Via `./jq` and **Python** Scripts  
from JSON to CSV

Upload the data in a DB



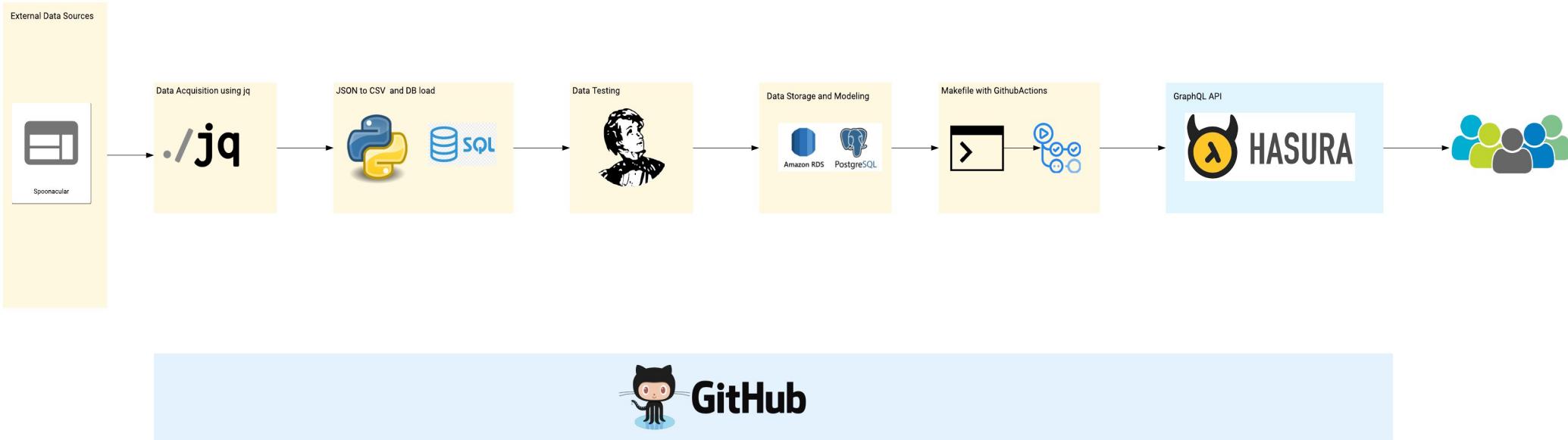
To Amazon RDS-Postgres via  
Python Scripts that creates the  
tables and transform the data  
as needed

Serve the data via API

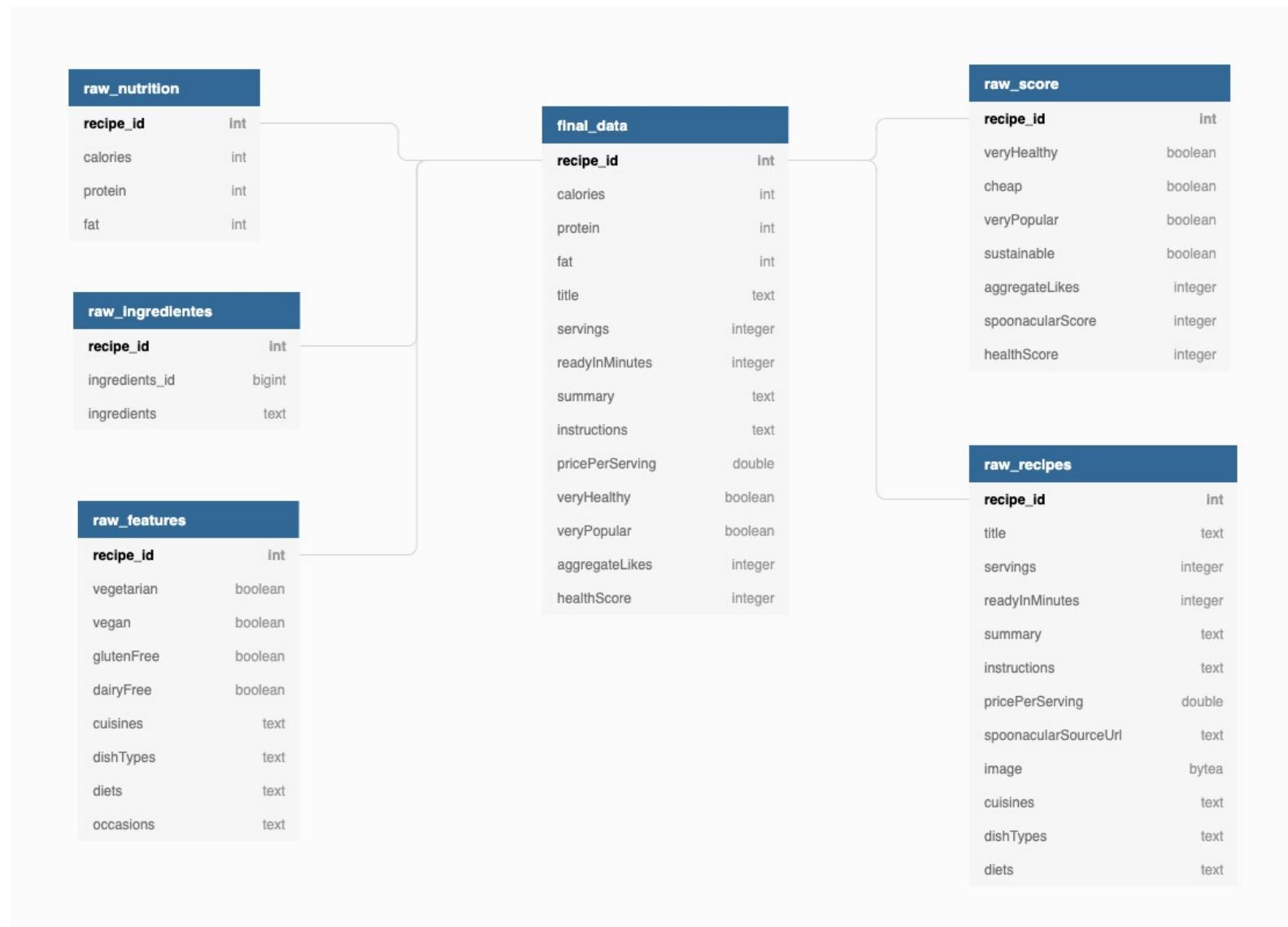


Via Hasura Cloud to generate a  
GraphQL API that eventually  
will connect with a UI

# High Level Architecture

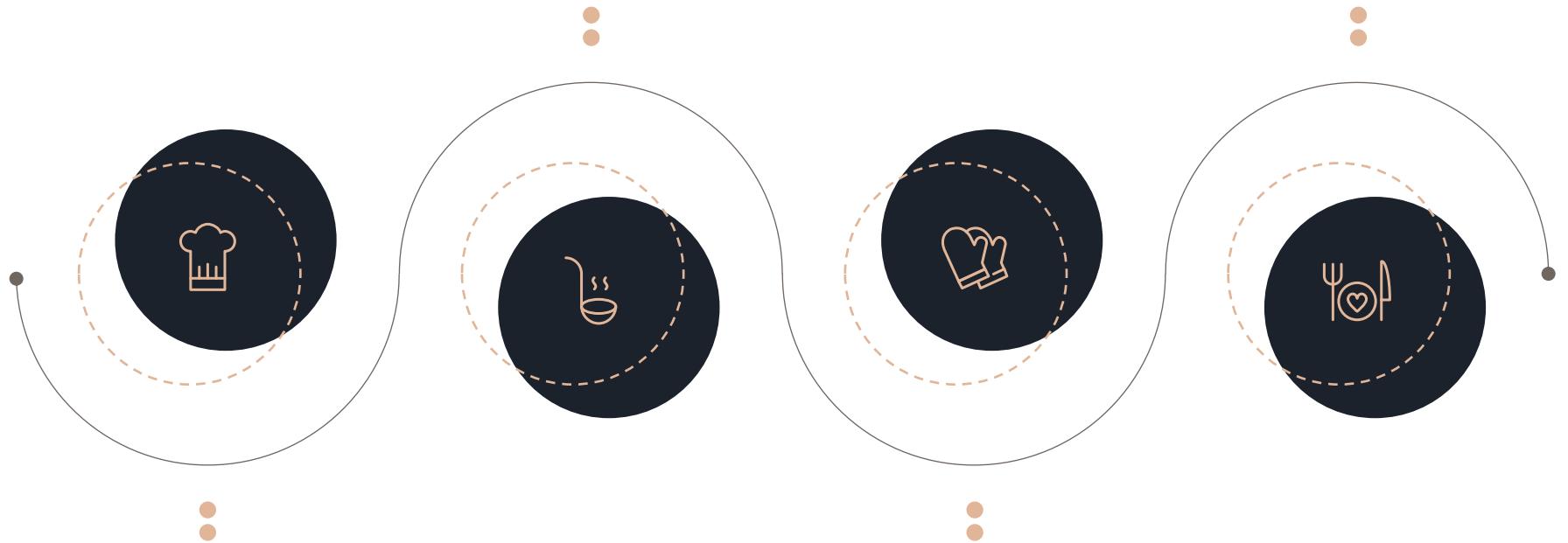


# Data Model



# Timeline and Pain Points

Sooo many sources which one should I choose. Data Sets, Food DB, APIs, Scrapping websites?



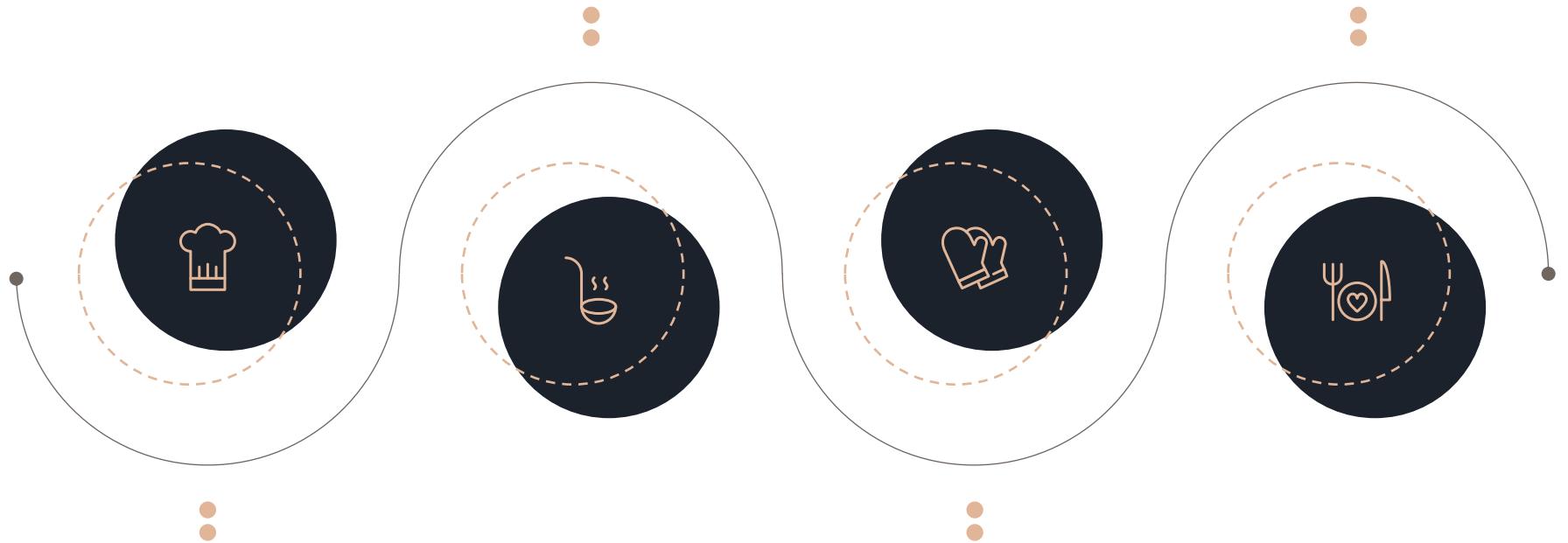
Ok! I have a source, now what?  
PythonAnywhere jobs or GitHub Actions for getting the data?

I think I over-engineer it... Rebase and think simple... **"The Make file"**

Where do I store it? Snowflake, SQLlite, RDS Postgres... I want this to be a long-term project...

# Timeline and Pain Points

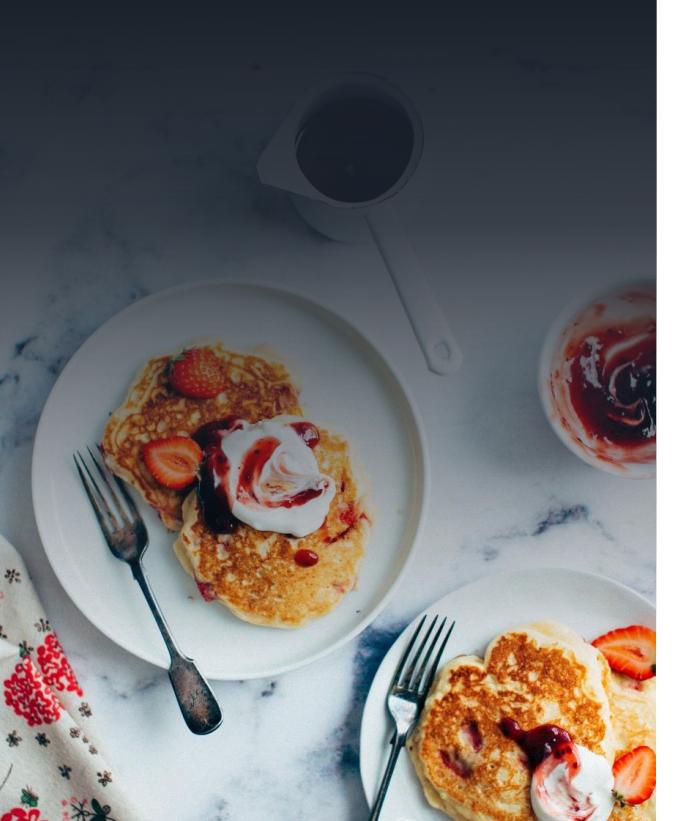
OMG the JSON is CAOS how do I transform this ... ./jq, pandas, python



DBT for modeling? Not really, very little time too much to do and data transformation to csv took forever...

Continuous Integration and Docker what a pain....

How to serve the Data? Flask API or GraphQL I haven't done this NEVER in my life..

 Foodtastic



# What is Next?

## Phase 01

Data Acquisition  
and MVP -  
Completed

## Phase 02

UI and Automatic  
Generation of the  
menus

## Phase 03

Improve data  
stack and  
performance.



## Phase 04

Improve UI and  
add the Generate  
Shopping List  
Feature

## Phase 05

Integration with  
food suppliers  
such Gorilla,  
supermarkets, et

## Phase 06

Request Funding

# Demo & Questions

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THANK  
YOU

