

# System & User Documentation for Grub Geeks

- *Nutritional website with calorie calculator designed for students*

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## ***An overview of the project***

Grub Geeks is a web application in which college students can find healthy and easy to prepare student-friendly recipes. Grub Geek's goal is to provide healthy and easy to prepare recipes, a community forum, and recipe recommendations based on calorie intake for a college student target demographic.

Our web application offers student collaboration via the forum board where a registered user can post recipe recommendations and/or reply to current forum post(s). In addition, the main feature of the site is the user's ability to interact with the "Calorie Tracker" which recommends recipes based on a calorie deficit calculation from user's calorie input.

## **Main features**

Grub Geek's web application main features include:

- A list of healthy and easy to prepare student-friendly recipes
  - All featured recipes meet our "student friendly" standards of:
    - Limited ingredients
    - Health ingredients low in carbs high vegetable options
    - Easy preparation
  - All featured recipes provide the following information:
    - Serving size
    - Preparation time
    - Cooking time
    - Calories
    - Nutritional information (grams of protein, fat, etc.)
    - Cooking instructions
- "Calorie Tracker" which recommends recipes based on a calorie deficit calculation from user's calorie input of daily limit and intake for said day.

- A student community forum where a registered user can:
  - Post recipe recommendations
  - Reply to current forum post(s)

### **How to user can use/access the software**

For an end user to access Grub Geeks web application a user would need an internet connection and web browser. A user will not need to install further software to run the Grub Geek's web application. The user would simply need to visit Grub Geek's website within a web browser which is connected to an active internet connection.

### **Quality attributes**

The Grub Geeks team decided on the following quality attributes:

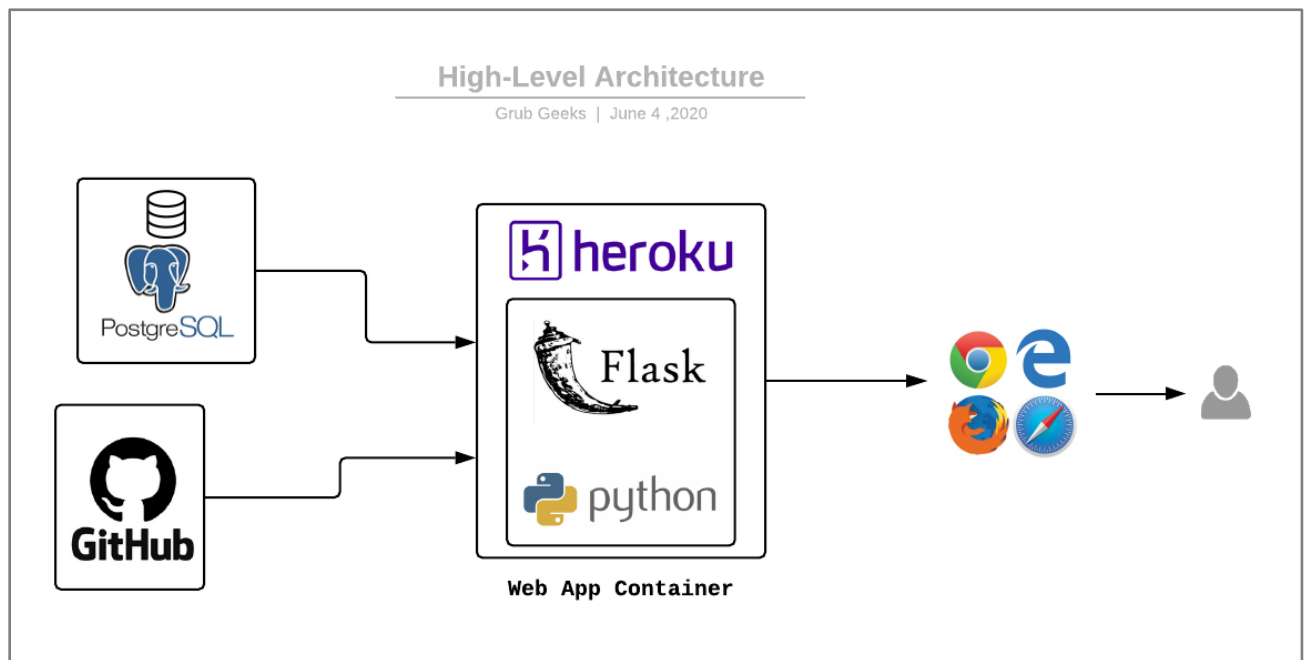
- Usability
- Simplicity
- Reliability

Upon selection of the above quality attributes there was consideration of the end user as well as catering to the target demographic. These quality attributes were chosen to best support a user's experience with Grub Geek's web application.

## ***An overview of your software's architecture and design***

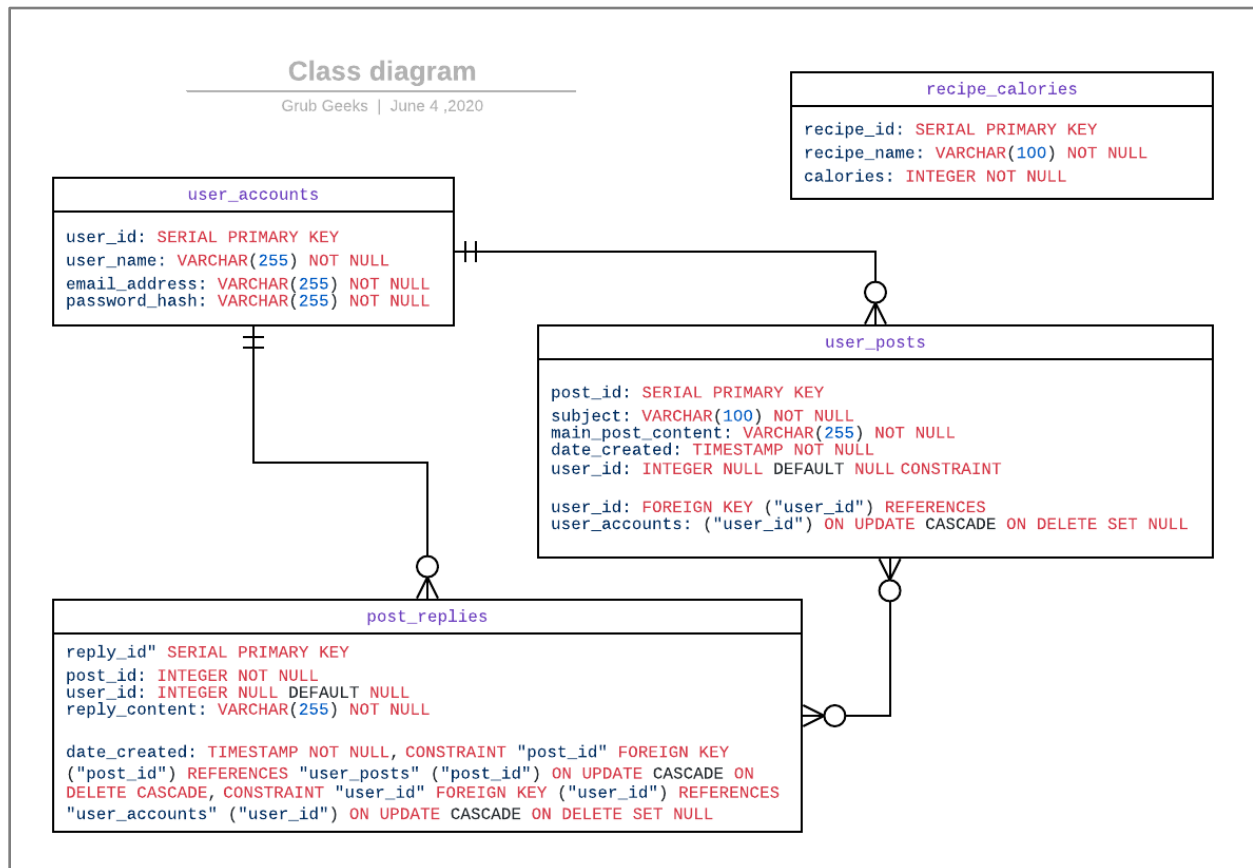
### **Architecture**

Grub Geek's utilizes Heroku, Flask, Python 3, PostgreSQL, and GitHub. In which GitHub contains our code. PostgreSQL maintains the database for users and recipes. Heroku hosts the website and utilizes which utilizes Flask and Python



## Design

Grub Geek's design below is a class diagram which represents the ERD of the current entities. Much of Grub Geek's entity relationships are within the forum. In which a user can have many posts and many replies. While a post can only have one user but many replies. As with a reply there can be many replies to a post but only one user per reply.



## Design pattern

Originally, the “Adapter” design pattern was chosen but after reviewing the code the design pattern was incompatible. We attempted to fit other design patterns as well, yet they weren’t a good fit either. Therefore, our team decided to go with the “Prototype” design pattern.

The code was then modified to form a “base class” and two “classes” that inherit from the “base”. Upon this implementation our staging Heroku app compiled and was built yet would not run. Heroku

logs revealed there might be an issue with the “inherited class” code. As of today, this issue regarding “sqlAlchemy” issue has been resolved.

## Final state/condition of the software

There is a bug within the results page which were just found upon deployment of the Grub Geeks web application. As of this moment the calories currently aren’t matching the recipes. It is a simple fix without our entry retrieval within our database our team is committed in fixing.

As for what’s left within the “Product Backlog” our team has completed all their task. At this moment nothing remains within the “Product Backlog”.

## Explanation of file structure of the project

cs361-s20-grubgeeks

Procfile

README.md

basic.py

requirements.txt

### I. [myproject](#)- Contains web application project files

\_\_init\_\_.py

dbModels.py

db\_setup.sql

forms.py

grubgeeks.db

grubgeeks.db.sqbp

#### a. [\\_\\_pycache\\_\\_](#) - Contains code for Python 3 bytecode compiled/executed

\_\_init\_\_.cpython-38.pyc

dbModels.cpython-38.pyc

forms.cpython-38.pyc

#### b. [static](#)- Contains CSS global styling folder and web application images

##### i. [CSS-files](#)- Contains global styling CSS code files

base\_recipe.css

style.css

G\_g\_recipe\_bg.jpg

android-chrome-192x192.png

android-chrome-512x512.png

apple-touch-icon.png

brussels\_sprouts.jpg

brussels\_sprouts\_roasted.jpg

bsprouts.jpg

carousel\_pic1.jpg

carousel\_pic2.jpg

carousel\_pic3.jpg

carousel\_pic4.jpg

carousel\_pic5.jpg  
chicken\_quesadila.jpg  
chickenquesadila.jpg  
credits.txt  
favicon- 16x16.png  
favicon-32x32.png  
favicon.ico  
footer.css  
green\_beans.jpg  
italian\_parmesean\_chicken.jpg  
lemon\_rosemary\_salmon.jpg  
lemon\_salmon.jpg  
logo.png  
orange\_chicken.jpg  
quesadilla.jpg  
salmon.jpg  
site.webmanifest  
sweet\_potato\_chips.jpg  
sweet\_potato\_fries.jpg  
thai\_basil\_chicken.jpg  
white\_bean\_soup.jpg

c. [templates-](#) *Contains HTML code files for the web application*

400.html  
401.html  
403.html  
404.html  
408.html  
500.html  
503.html  
add\_post.html  
base.html  
base\_recipe.html  
calc\_results.html  
calorie\_calc.html  
chicken\_quesadila.html  
entrees\_gallery.html  
footer.html  
forum.html  
green\_beans.html  
index.html  
italian\_parmesean\_chicken.html  
lemon\_rosemary\_salmon.html  
login.html  
my\_account.html  
orange\_chicken.html  
post.html  
register.html  
roasted\_bsprouts.html  
sweet\_potato\_chips.html  
thai\_basil\_chicken.html

white\_bean\_soup.html

II. [recipes](#)- *Contains website's recipe information such as recipe title, calories, ingredients, etc.*

chicken\_quesadilla.txt

credits.txt

green\_beans.txt

italian\_parmesean\_chicken.txt

lemon\_rosemary\_salmon.txt

orange\_honey\_chicken.txt

roasted\_brussels\_sprouts.txt

sweet\_potato\_chips.txt

thai\_basil\_chicken.txt

white\_bean\_soup.txt