

## **P3 Team Pencil**



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### **Description:**

A website with an emphasis on fruits. The site will allow the user to choose a fruit that intrigues them and recipes including the chosen fruit would follow.

### **API Used:**

<https://tropicalfruitandveg.com/showpics.php?show=all&pn=1&pp=6>

- Contains images of fruits we want

<https://www.fruityvice.com/>

- Used to provide specific nutritional information on the fruits

<https://developer.edamam.com/edamam-docs-recipe-api>

- Has recipe information which we will look through to find ingredients matching the fruit

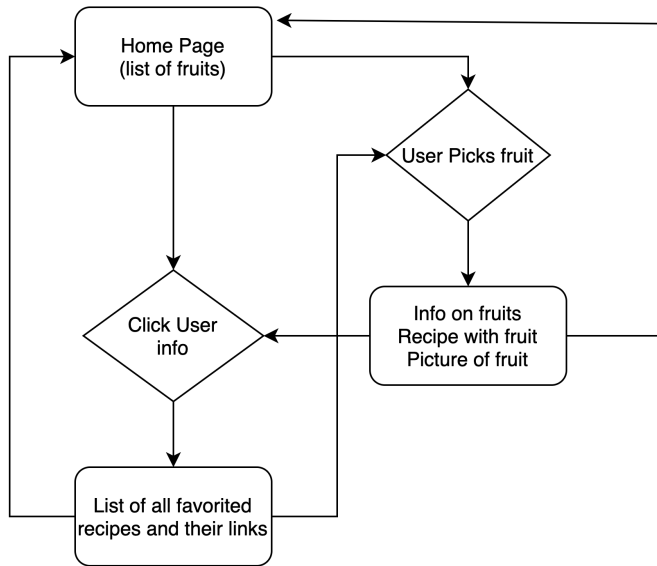
### **Components:**

- Flask
  - Will be used for serving our templates, parsing API data and routing.
- Templates
  - Will incorporate Bootstrap as our FEF and some Javascript to reveal some API data in an interesting way.
- APIs
  - APIs will be called to bring in data about fruits and recipes as well as images.
- Database
  - The SQLite database will store the lists user and passwords, recipes favorites, and facts.

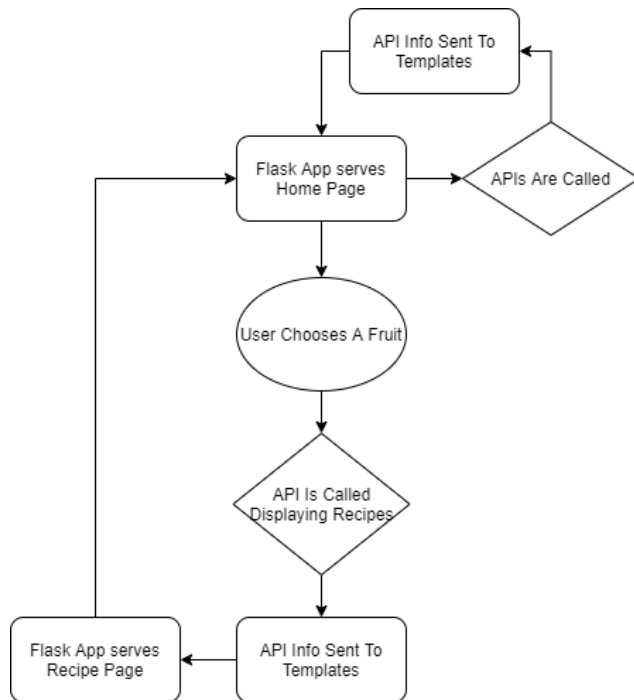
### **Component Interactions:**

- Flask serves our routes and hooks into our APIs. We will use the functions to pass data from our APIs to our templates.
- Within the templates, we will use Javascript to make reveal some of the data that is passed with mouse-hover and on-click properties.

## Sitemap:



## Component Map:



## Database Tables

Table 1(for userAuth): ID, username, and password

UserID	Username	Password
Int	Unique Text	Text
1	jake	1234
2	name	pass

Table 2(db for all recipe info): ID, recipe\_name, recipe\_url, recipe\_image\_url, and recipe\_ingredients

RecipeID	recipe_name	recipe_url	recipe_image_url	recipe_ingredients
0	Banana shortcake	Https//...	Https//...	{banana, flour, ...}
1	Text	url	url	Text
2	...	...	...	...

Table 3(for individual user's favorite page): UserID, favorite\_recipe

UserID	favorite_recipe
Int	RecipeID
1	1

## Tasks:

Frontend for Homepage and Fruit Pages - Ariel S.

Backend calling APIs/ Python - Ethan M.

Backend parsing and formatting API JSON - William W.

## Timeline:

- HTML and Jinja Templates: 4/23-24
- Python Backend Framework: 4/25-26
- Database and API Integration: 4/26-27
- Bootstrap/JavaScript/CSS: 4/27-4/28