

# Tasteful Panthers Milestone 2



## **TEAM MEMBERS**

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# Task Matrix for Milestone 2



Task	Completion	Alex	Jiahao	Anthony	Lexi
Dev & Demo Accounts	10%	40%	20%	20%	20%
Dev & Demo Web Scraping	100%	20%	40%	20%	20%
Dev & Demo Mobile Reviewing	30%	20%	20%	20%	20%
Dev & Demo Database	80%	20%	20%	40%	20%

# Task 1: Dev & Demo Accounts

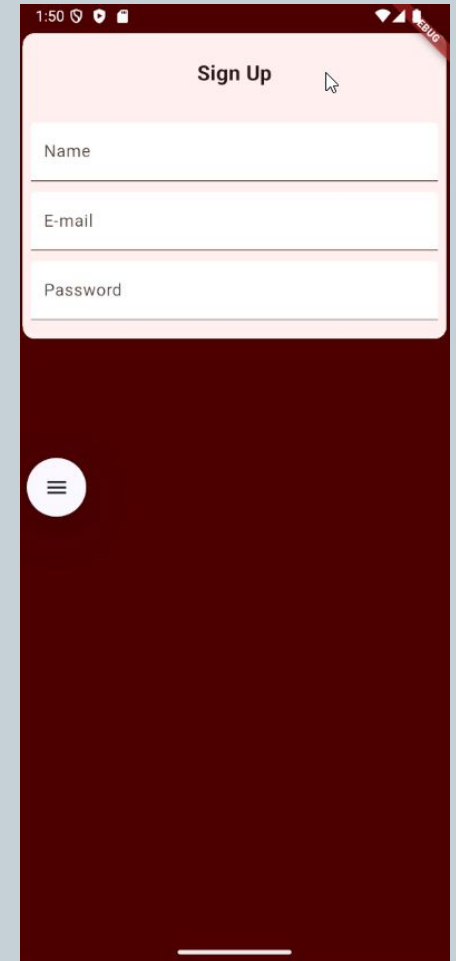


- Initially held up by lack of knowledge regarding authentication and FIT account servers
- Switch over to self managed accounts saved on database with hashed passwords
- Not yet complete due to this paradigm shift, should be reasonably easy to do so

# Task 1: Dev & Demo Accounts



- Account sign up screen
- Incomplete GUI and database functionality



# Task 2: Dev & Demo Webscraping



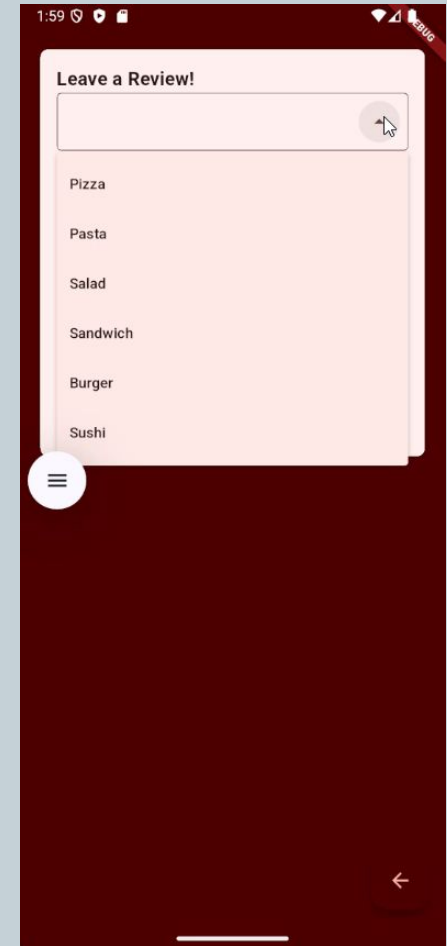
## ● Scraping menu items and storing them in database

```
starschumck@DESKTOP-SVPH X + v
starschumck@DESKTOP-SVPH9NL:/mnt/c/Users/Laure/PycharmProjects/PDHMenuRecommend$ python3 db_init.py
old meals cleared...
=====
DATE: 2025-03-25
=====
|
```

meals > 2025-03-25		
(default)	meals	2025-03-25
+ Start collection	+ Add document	+ Start collection
allergens	2025-03-25	+ Add field
meals	2025-03-26	Apple Pie
		allergens
		0 "M"
		1 "E"
		2 "S"
		3 "W"
		meal_type: "Dinner"
		Assorted Cookies
		allergens
		0 "M"
		1 "E"
		2 "S"
		3 "W"
		meal_type: "Dinner"
		Baby Spinach

# Task 3: Dev & Demo Mobile Reviewing

- Review GUI nearly complete
- All but tags have been completed, these require more planning to finalize specific tags
- Database functionality needs to be trivially implemented now that database itself is functional



# Task 4: Dev & Demo Database



- Database initialized, not yet filled with all data
- Development halted as group debated on best way to store all data
- Database types now specified, and ready for app functions to integrate it

## 1. Meals Collection

Stores details about meals, including their type and allergens.

- **Fields:**
  - `string name`: The name of the meal
  - `string meal_type`: Breakfast, Lunch, or Dinner
    - could easily do int/char as well (0/1/2 or B/L/D)
  - `list allergen_symbols`: A list of allergen symbols for quick filtering (e.g., "GF" for Gluten-Free)
    - `string [allergen]`: a specific allergen (e.g., GF)
  - `list allergen_ids`: A list of references to allergens for more detailed information

## 2. Allergens Collection

Stores information about allergens, referenced by meals.

- **Fields:**
  - `char symbol`: A short code representing the allergen (e.g., "GF" for Gluten-Free)
  - `string name`: The full name of the allergen
  - `boolean is_allergy`: a boolean to represent if the user has the named allergy

## 3. Reviews Collection

Stores user reviews for meals.

- **Fields:**
  - `string author`: The user who wrote the review
  - `date_time`: The timestamp of the review // implement time library
  - `int meal_id`: A reference to the meal being reviewed
  - `string review_text`: The content of the review
  - `int star_rating`: A numerical rating (e.g., 1-5 stars)
  - `list tags`: A list of descriptive tags (e.g., "Health", "Flavor")
  - `string image_url`: An optional image URL for the review

## 4. Users Collection

Stores user account details.

- **Fields:**
  - `string email`: The user's email
  - `hash password_hash`: A hashed version of the user's password
  - `string name`: The user's name
  - `float avg_pdh_duration`: The user's average Panther Dining Hall duration (if applicable)

## 5. Suggestions Collection

Stores user-submitted meal improvement suggestions.

- **Fields:**
  - `string author`: The user submitting the suggestion
  - `date_time`: The timestamp of the suggestion
  - `string meal_id`: A reference to the meal being suggested for improvement
  - `string suggestion_text`: The content of the suggestion

# Demo: App

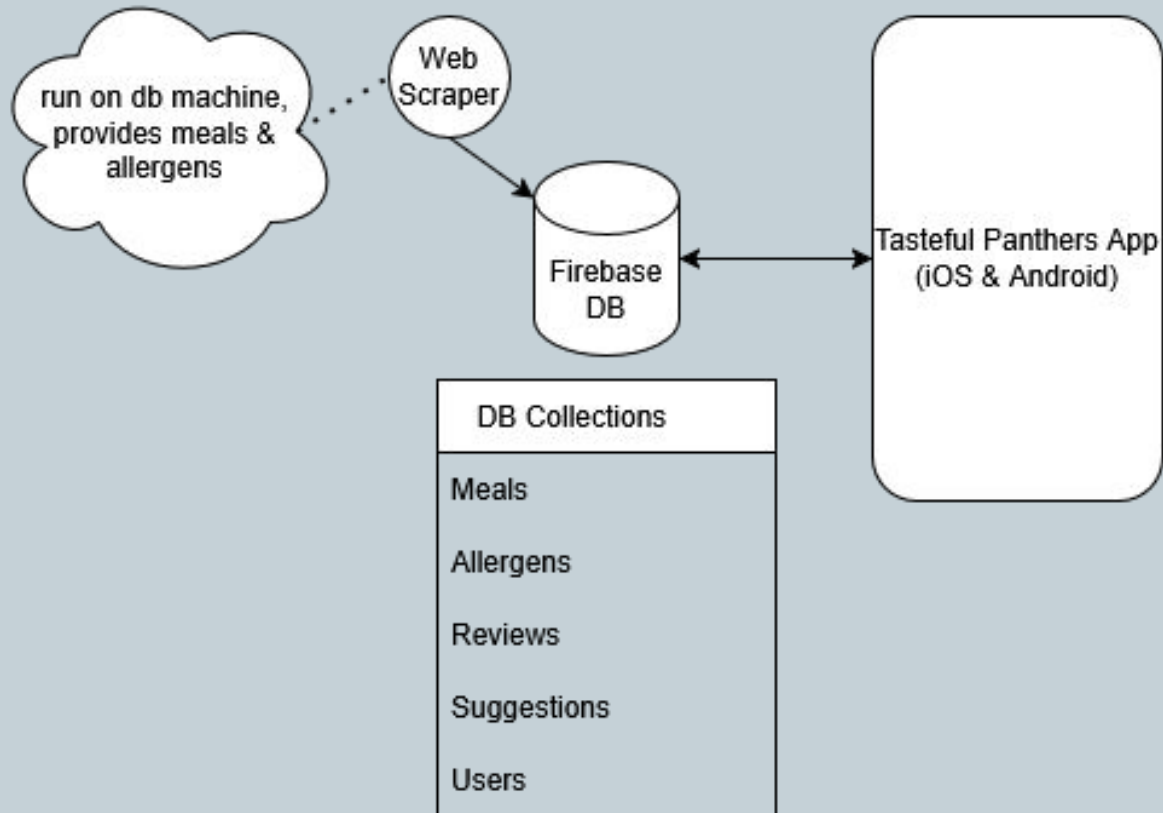


- Dart app w/ GUI near completion
- Includes several screens such as settings, home, login
- Navigation bar functionality
- Review functionality nearly complete
- Staff side not yet implemented but should be trivial after guest side is complete

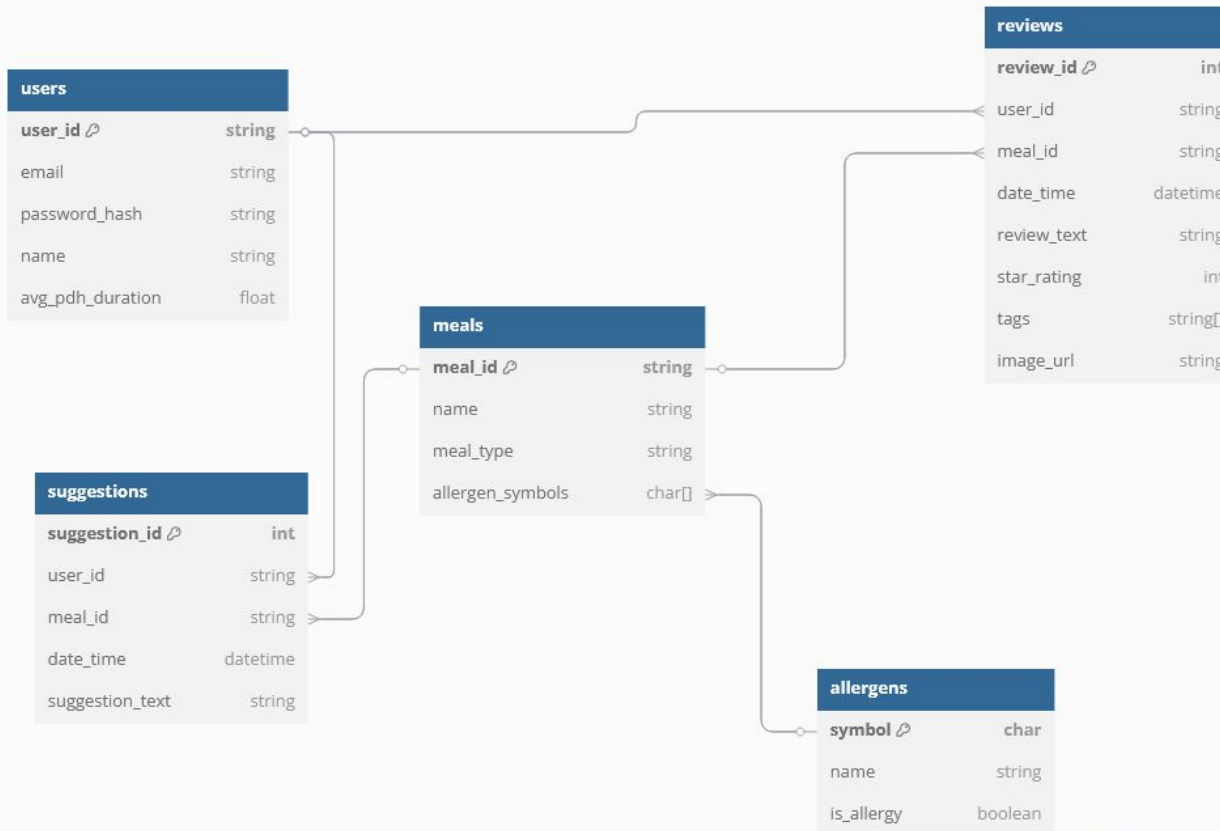




# Documents: System Architecture



# Documents: ER Database Diagram



# Milestone 2 Task Matrix



Task	Alex	Anthony	Jiahao	Lexi
Dev & Demo Reviews with Tags and Media	40%	20%	20%	20%
Dev & Demo Menu Items Updated to App	20%	40%	20%	20%
Dev & Demo GPS Triggered Notifications and Time Recording	20%	20%	20%	20%
Dev & Demo User Accounts	20%	20%	40%	20%

# Conclusion



- Questions?