

# Tasteful Panthers Milestone 1



## **TEAM MEMBERS**

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# Task Matrix for Milestone 1



Task	Completion	Alex	Jiahao	Anthony	Lexi
<b>Compare and Contrast Technical Tools</b>	100%	Web/Information Scraping	IDE	Database	IDE
<b>Tool Demos</b>	100%	Web/Information Scraping	IDE,	Database	IDE
<b>Resolve Technical Challenges</b>	80%	Swift, sorting algorithm	Swift, sorting algorithm	Swift, algorithm, encryption/decryption	Swift, sorting algorithm
<b>Collaboration Tools</b>	100%	Communication	Documents/presentations	Software development	Task calendar
<b>Requirements Document</b>	99%	Write 40%	Write 20%	Write 20%	Write 20%
<b>Design Document</b>	99%	Write 20%	Write 20%	Write 20%	Write 40%
<b>Test Plan</b>	99%	Write 20%	Write 20%	Write 40%	Write 20%

# Task 1: Compare and Contrast Technical Tools



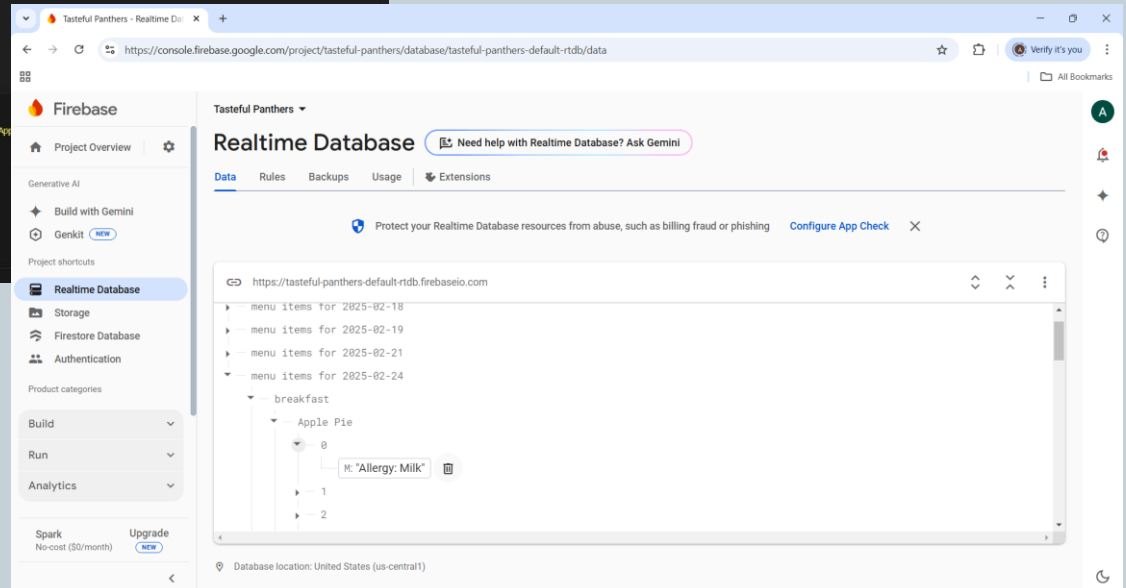
- Flutter, programming in Dart for cross platform mobile development (iOS AND Android now)
- Chose Google Firebase as our database due to functionalities like:
  - Cloud capabilities
  - Firebase Realtime Database

# Task 2: Demos



- Scraping menu items and storing them in database

```
scraper2.py write_to_firestore
36 }
37
38 data = {
39     'action': 'getMenu',
40     'concept_id': '5',
41     'calendar_date': date.today().strftime("%Y-%m-%d"),
42 }
43
44 response = requests.post('https://app.mymenumanager.net/fit/ajax.php', headers=headers, data=data)
45
46
47 # check if request was successful
48 if response.status_code == 200:
49     print("Connection Successfully Established.")
50 else:
51     print("Error!")
52
53 soup = BeautifulSoup(response.text, "html.parser")
54 menu_blocks_divs = soup.select('div[class~="menu_blocks"]')
55 items = []
56
57 breakfast lunch dinner = None
58
59 breakfast lunch dinner = None
60
61 PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master> .\scraper2.py
Connection Successfully Established.
PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master>
PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master>
PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master>
```



# Task 2: Demos



- Simple Android app written in Dart (iOS theoretically looks the same)
- GPS and heads-up notifications in mobile app



# Task 2: Demos



- Database integration with mobile app



# Task 3: Resolve Technical Challenges



- 2 out of the 4 of us have a Mac, so Swift dev and testing was going to be difficult for half of us
- Switched to Dart, which is the programming language for Flutter
- Flutter is a cross-platform framework that will allow us to create both an Android and iOS application
- We all successfully set up Flutter SDK and experimented programming in Dart

# Task 4: Collaboration Tools



- Discord and iMessages for communication
- Google Docs for documentation
- GitHub for software dev
- No specific IDE, either VSCode or XCode depending on our systems since both support Flutter dev



# Task 5: Requirements Document

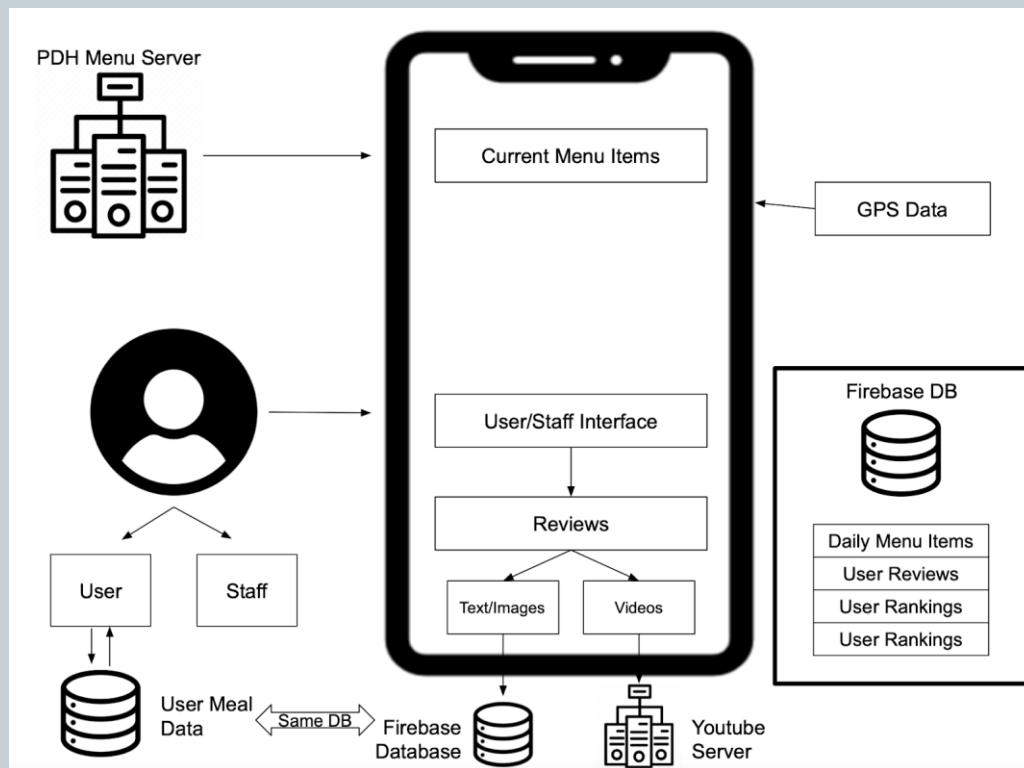


- Wrote the requirements doc that covers purpose, scope, user characteristics, etc.
- In depth list of requirements for guests and staff including:
  - Functional requirements:
    - ✦ Review/suggestion creation
    - ✦ Flag raising/resolution
  - Interface requirements:
    - ✦ Login/signup interface
    - ✦ Dashboard
  - Performance requirements
    - ✦ Performance benchmarks
    - ✦ “This feature completes/returns within this many seconds”

# Task 6: Design Document



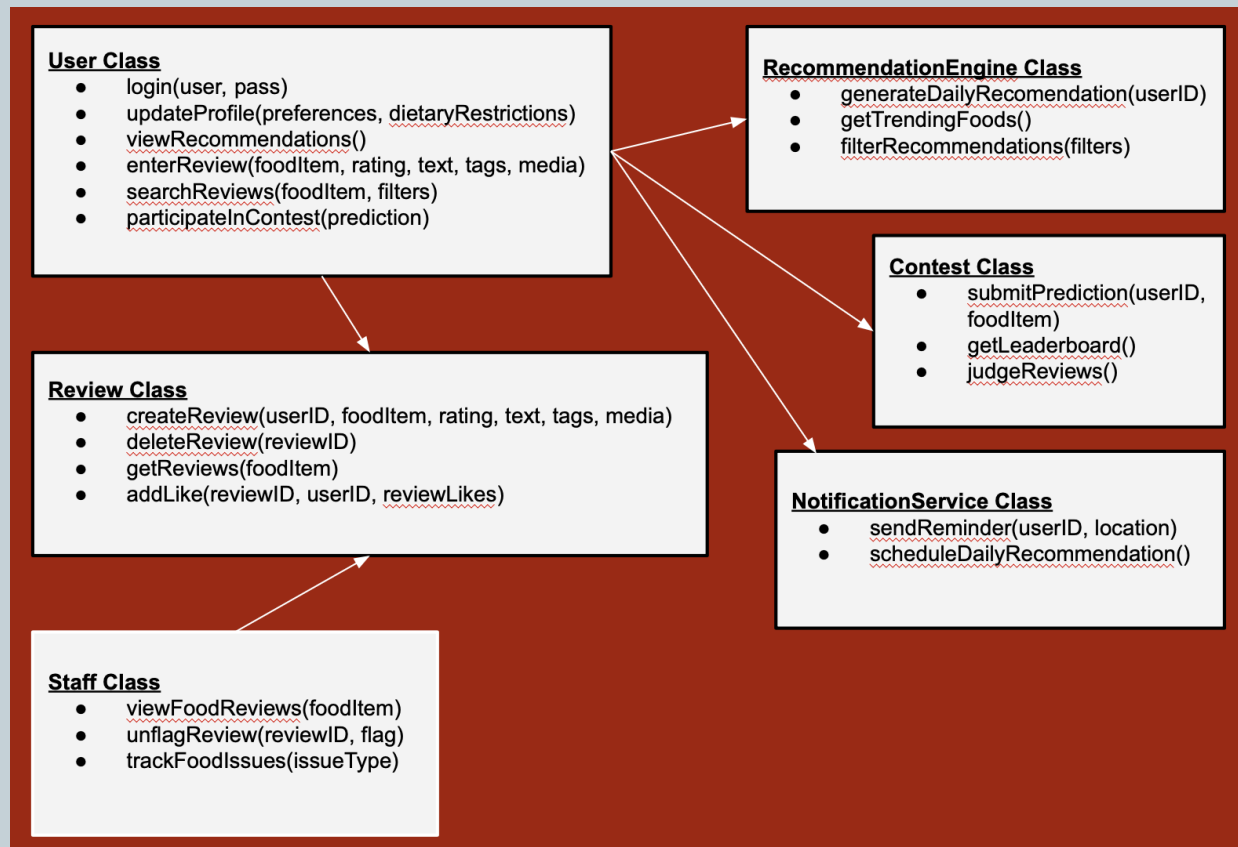
- System Architecture Diagram



# Task 6: Design Document




## • ER Database Diagram



# Task 6: Design Document




- GUI Mockup
  - Login screen
  - Search tool
  - Guest dashboard



## Panther Dining Recommendations

USER LOGIN

[Forgot Password?](#)



### Review Results for "eggs"

Filter by:  
Select an option

- Scrambled Eggs ★★★★★ (02.03.25)
- Omelettes ★★★★★ (01.25.25)
- Hard Boiled Eggs ★★★★★ (01.22.25)
- Chicken Fried Rice ★★★★★ (01.19.25)
- Scrambled Eggs ★★★★★ (01.18.25)
- Scrambled Eggs ★★★★★ (01.18.25)
- Egg & Cheese Bagel ★★★★★ (01.14.25)
- Omelettes ★★★★★ (01.10.25)
- Hard Boiled Eggs ★★★★★ (01.07.25)

### Suggestion Results for "eggs"






Filter by:  
Select an option

- Eggs Benedict ★★★★★
- Omelettes ★★★★★
- Egg & Cheese Croissant ★★★★★
- Scrambled Eggs ★★★★★
- Egg & Cheese Bagel ★★★★★
- Breakfast Bowl ★★★★★

### User Results for "eggs"

Filter by:  
Select an option

No results found

### What's tasty today?

What we suggest...

- Buffalo Chicken Wrap ★★★★★ [See More]
- Broccoli Cheddar Soup ★★★★★ [See More]

What the crowd thinks...

- Buffalo Chicken Wrap ★★★★★ [See More]
- Chicken Nuggets ★★★★★ [See More]

In case you forgot... (here are some of your faves)

- Buffalo Chicken Wrap ★★★★★ [See More]
- Chicken Sandwich ★★★★★ [See More]

Your "Tasteful Twin" also likes...

- Chicken Patty ★★★★★ [See More]
- Scalloped Potatoes ★★★★★ [See More]






### How am I ranked?

Predictions

- You're 4 out of 4,324
- 99% accuracy
- [View Leaderboard](#)

Reviews

- You're 4 out of 4,324
- 149 total review likes
- [View Leaderboard](#)

# Task 7: Test Document



- Test cases for covering the requirements document
- Following table format:

Test Case ID	Reference Number	Requirement	Input	Expected Output
TC-PC-001	3.1.1.1.1	Profile Creation (Guests)	Guest enters valid PAWS credentials and selects dietary preferences	Reviewer profile is created with a unique username and saved dietary preferences
TC-PC-002	3.1.1.1.1	Profile Creation (Guests)	Guest enters invalid PAWS credentials	Profile creation fails with an error message
TC-PMR-001	3.1.1.2.1	Meal Recommendations	Guest has previous meal reviews and dietary preferences set	Personalized meal recommendations appear in the app and via notifications
TC-GPS-001	3.1.1.2.2	GPS-Based Recommendations	Guest enters PDH with location services enabled	Meal recommendation notification is sent upon arrival

# Milestone 2 Task Matrix



Task	Alex	Anthony	Jiahao	Lexi
Dev & Demo Accounts	40%	20%	20%	20%
Dev & Demo Web Scraping	20%	40%	20%	20%
Dev & Demo Mobile Reviewing	20%	20%	20%	20%
Dev & Demo Database	20%	20%	40%	20%

# Thanks



- Questions?