

Tasteful Panthers Milestone 1



TEAM MEMBERS

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Task Matrix for Milestone 1



Task	Completion	Alex	Jiahao	Anthony	Lexi
Compare and Contrast Technical Tools	100%	Web/Information Scraping	IDE	Database	IDE
Tool Demos	100%	Web/Information Scraping	IDE,	Database	IDE
Resolve Technical Challenges	80%	Swift, sorting algorithm	Swift, sorting algorithm	Swift, algorithm, encryption/decryption	Swift, sorting algorithm
Collaboration Tools	100%	Communication	Documents/presentations	Software development	Task calendar
Requirements Document	99%	Write 40%	Write 20%	Write 20%	Write 20%
Design Document	99%	Write 20%	Write 20%	Write 20%	Write 40%
Test Plan	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 X
scraper2.py > write_to_firestore
36 }
37 }
38 }
39 data = {
40   'action': 'getMenus',
41   'concept_id': '5',
42   'calendar_date': date.today().strftime("%Y-%m-%d"),
43 }
44 response = requests.post('https://app.sylmenumanager.net/Eit/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
55 menu_blocks_divs = soup.select('div[class~="menu_blocks"]')
56
57 items = []
58
59 breakfast lunch dinner = None
60
61
62 PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master> & C:/Users/ajhor/AppData/Local/Programs/Python/Python310/python.exe C:/Users/ajhor/Code/POHMenuRecommend-master/scraper2.py
Connection Successfully Established.
PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master>
History restored
PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master>
History restored
PS C:\Users\ajhor\Code\POHMenuRecommend-master\POHMenuRecommend-master>
```

Realtime Database

https://tasteful-panthers-default-rtdb.firebaseio.com

- menu items for 2025-02-18
- menu items for 2025-02-19
- menu items for 2025-02-21
- menu items for 2025-02-24
 - breakfast
 - Apple Pie
 - M: Allergy: Milk

Database location: United States (us-central1)

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

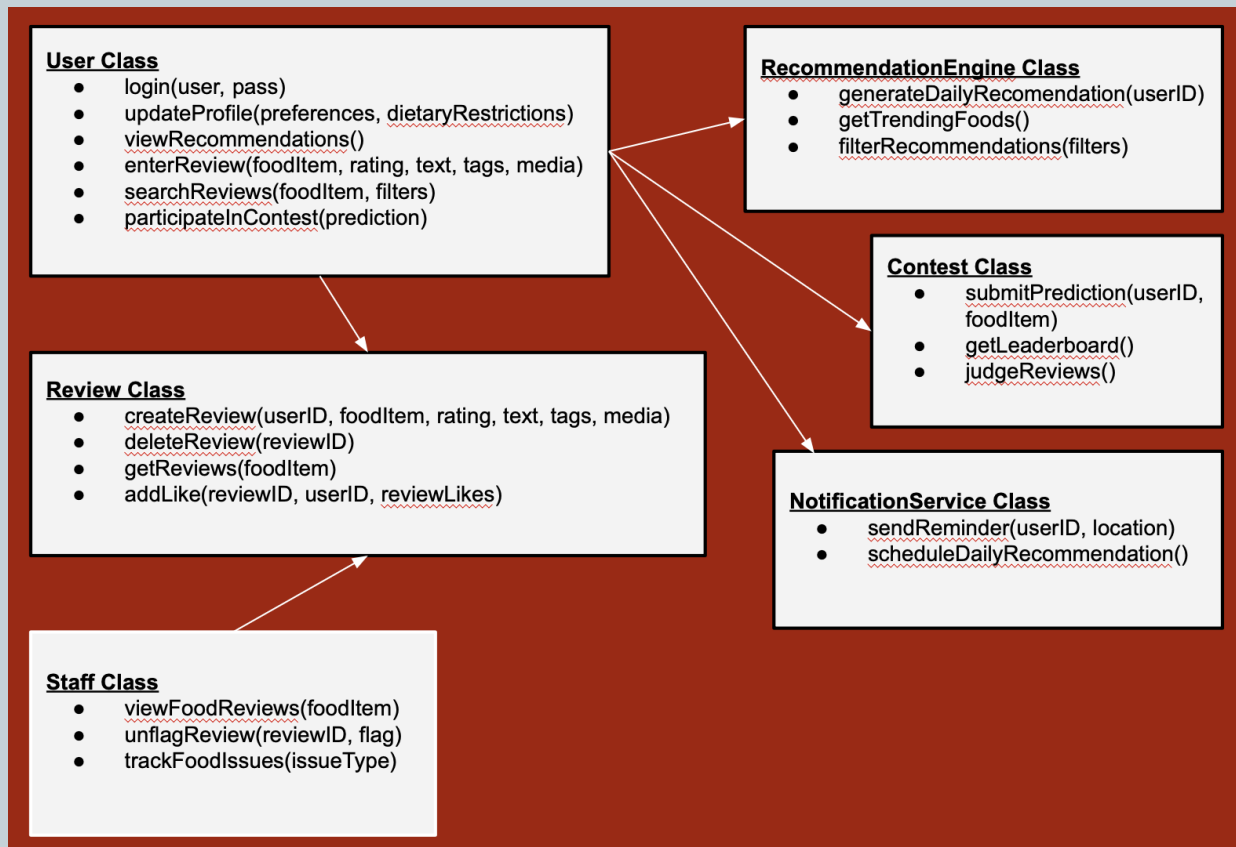


- Wrote the requirements doc that covers purpose, scope, user characteristics, etc.
- In depth list of requirements for guests and staff including:
 - Functional requirements:
 - ✦ Review/suggestion creation
 - ✦ Flag raising/resolution
 - Interface requirements:
 - ✦ Login/signup interface
 - ✦ Dashboard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

Task 6: Design Document




• ER Database Diagram



Task 6: Design Document



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



**Panther Dining
Recommendations**

USER LOGIN

[Forgot Password?](#)

Search

Review Results for "eggs"

Filter by:

- 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:

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

User Results for "eggs"

Filter by:

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

Reviews

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

Task 6: Design Document



- GUI Mockup
 - Review creation
 - Leaderboards

Leave a Review!

Select Your Dish

Rate Your Dish 1-10

Write your review here [Add media](#)

Add Tags
salty + sweet + other +

Did you have an issue with your dish?

[Submit](#)

Suggest a new dish!

Title of Dish

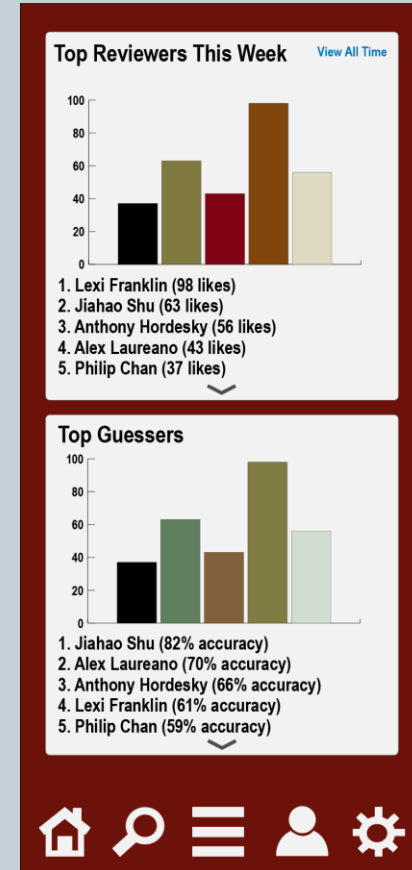
Description of dish [Add media/links](#)

Add tags

[Submit](#)

What do you think tomorrow's best dish will be?

Cheeseburger	Pepperoni Pizza	Teriyaki Wings
BBQ Wings	Chili	Mac N' Cheese
Mashed Potatoes	Chicken Nuggets	Tofu Fried Rice



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?