

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

The image displays a development environment with a code editor and a web browser. The code editor shows a Python script named `scrapet2.py` that scrapes menu items from a website and stores them in a Firebase Realtime Database. The script uses `requests` to fetch data and `BeautifulSoup` to parse the HTML. The terminal output shows the script running successfully, printing "Connection Successfully Established".

```
scrapet2.py > write_to_firestore
36 }
37
38 data = {
39     'action': 'getMenuus',
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
55 menu_blocks_divs = soup.select('div[class~="menu_blocks"]')
56
57 items = []
58
59 breakfast lunch dinner = Menu Menu Menu
60
61 PS C:\Users\ajhor\Code\PDHMenuRecommend-master\PDHMenuRecommend-master> C:\Users\ajhor\AppData\Local\Programs\Python\Python310\Scripts\python.exe C:\Users\ajhor\Code\PDHMenuRecommend-master\scrapet2.py
Connection Successfully Established!
PS C:\Users\ajhor\Code\PDHMenuRecommend-master\PDHMenuRecommend-master>
History restored
PS C:\Users\ajhor\Code\PDHMenuRecommend-master\PDHMenuRecommend-master>
History restored
PS C:\Users\ajhor\Code\PDHMenuRecommend-master\PDHMenuRecommend-master>
```

The web browser shows the Firebase Realtime Database interface for the project "Tasteful Panthers". The database structure is as follows:

- 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
 - 0
 - 1
 - 2

The database location is 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

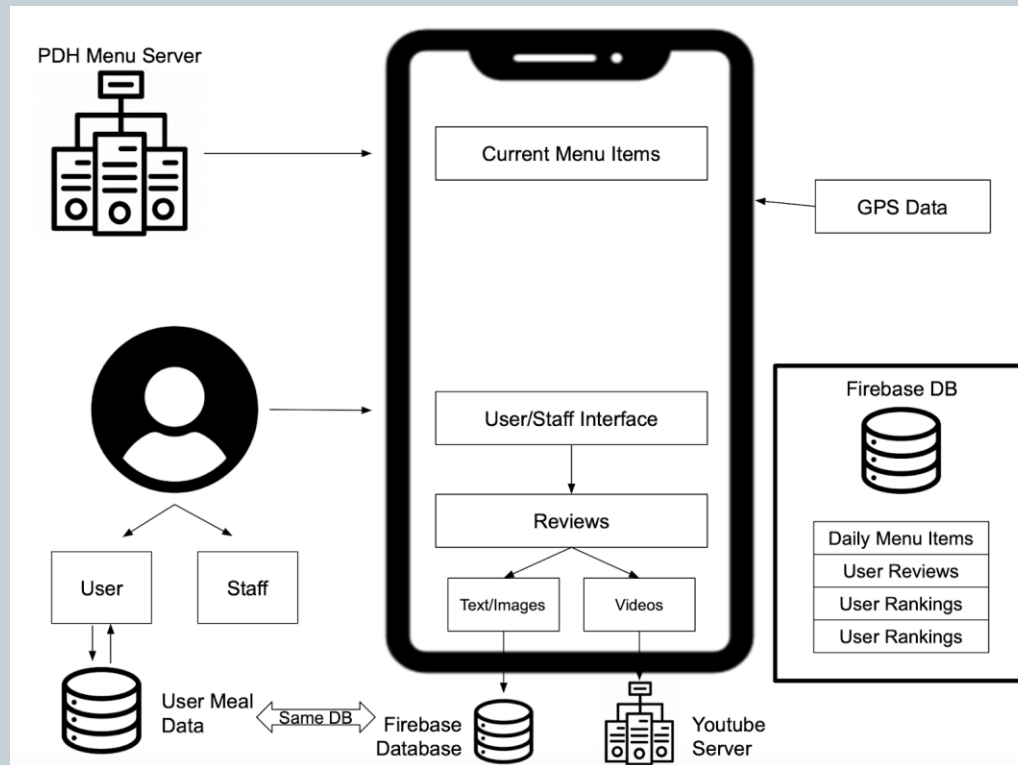
Task 5: Requirements Document



- 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”

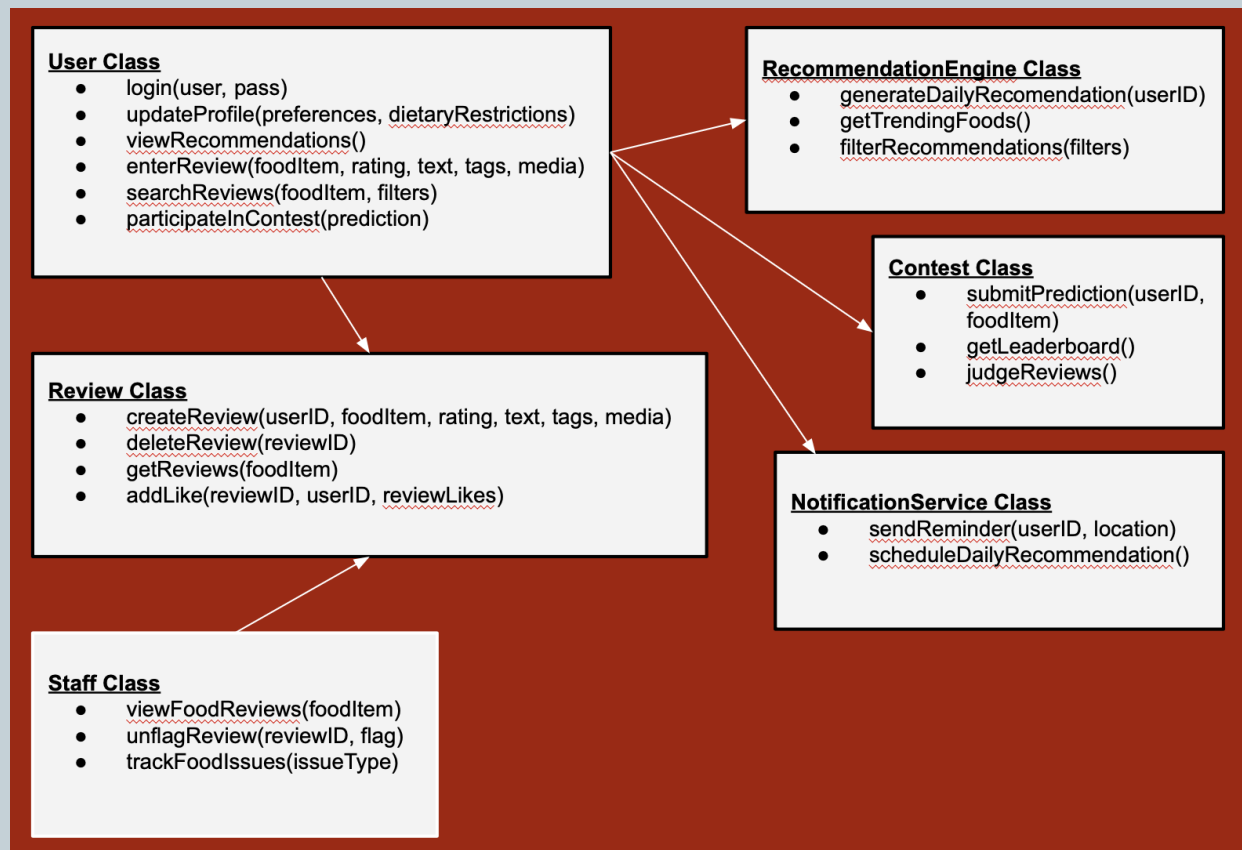
Task 6: Design Document

- System Architecture Diagram



Task 6: Design Document

• ER Database Diagram



Task 6: Design Document



- GUI Mockup
 - Login screen

The mockup shows a dark red rectangular panel with a white border. At the top center is a white silhouette of a panther's head facing right. Below the logo, the text "Panther Dining Recommendations" is written in white, bold, sans-serif font. Further down, the text "USER LOGIN" appears in a smaller white font. Below this are two white input fields: the first contains the text "example@fit.edu" and the second contains the text "TRACKS Password". To the left of the bottom input field is a blue link that says "Forgot Password?". To the right of the bottom input field is a grey button with the text "LOG IN" in white, bold, sans-serif font.

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?