Tasteful Panthers Milestone 1

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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%

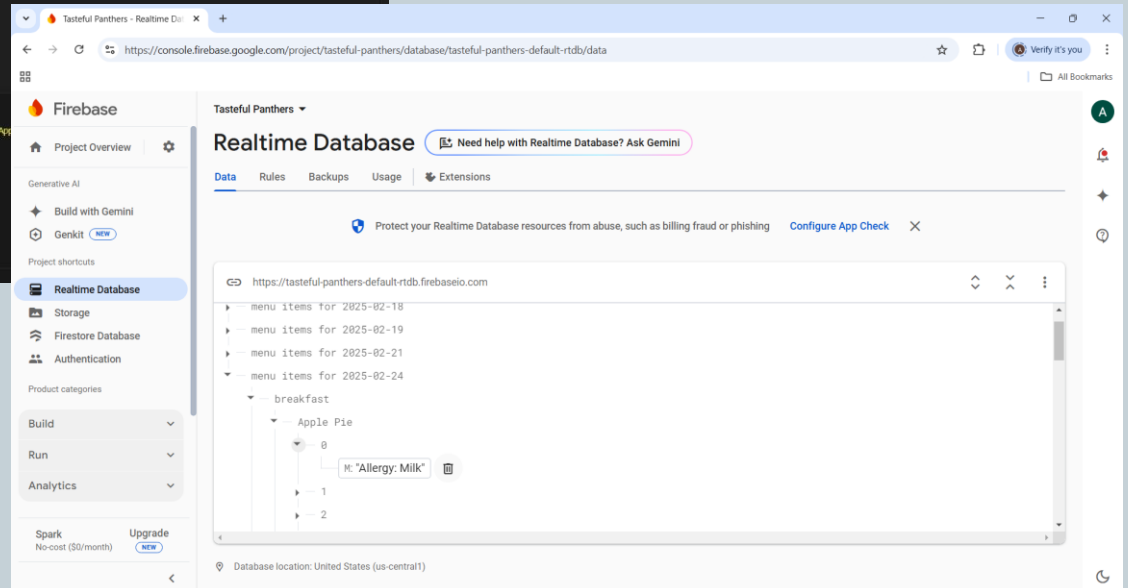# Task 1: Compare and Contrast Technical Tools

- 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

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
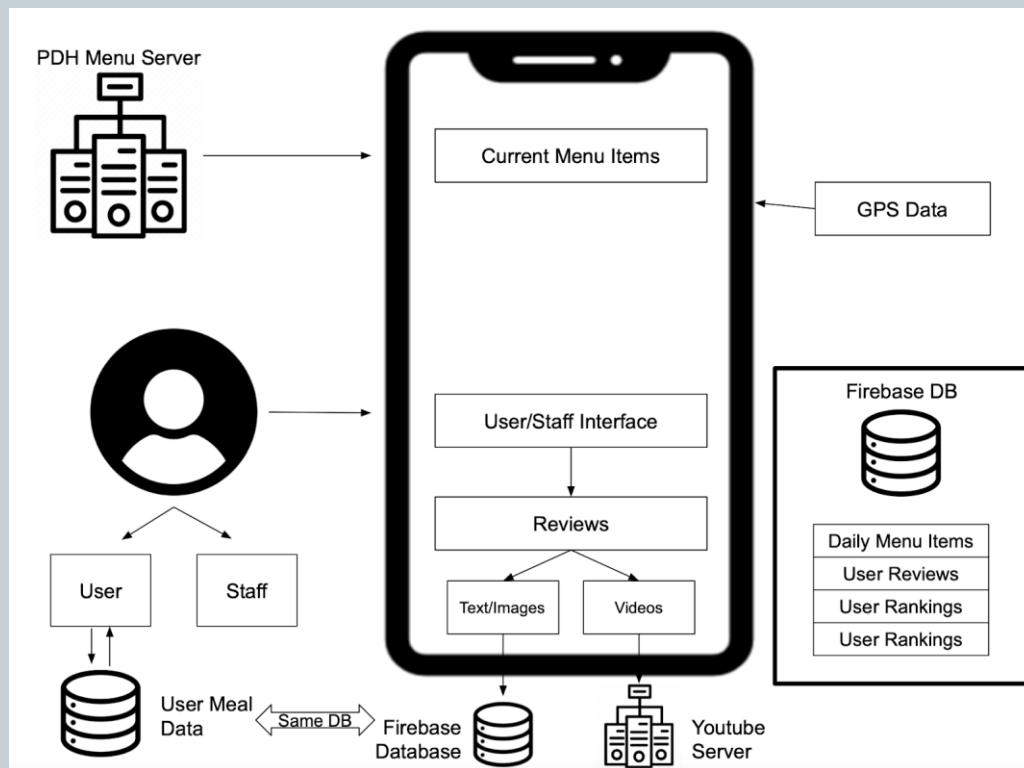
Task 5: Requirements Document

- 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
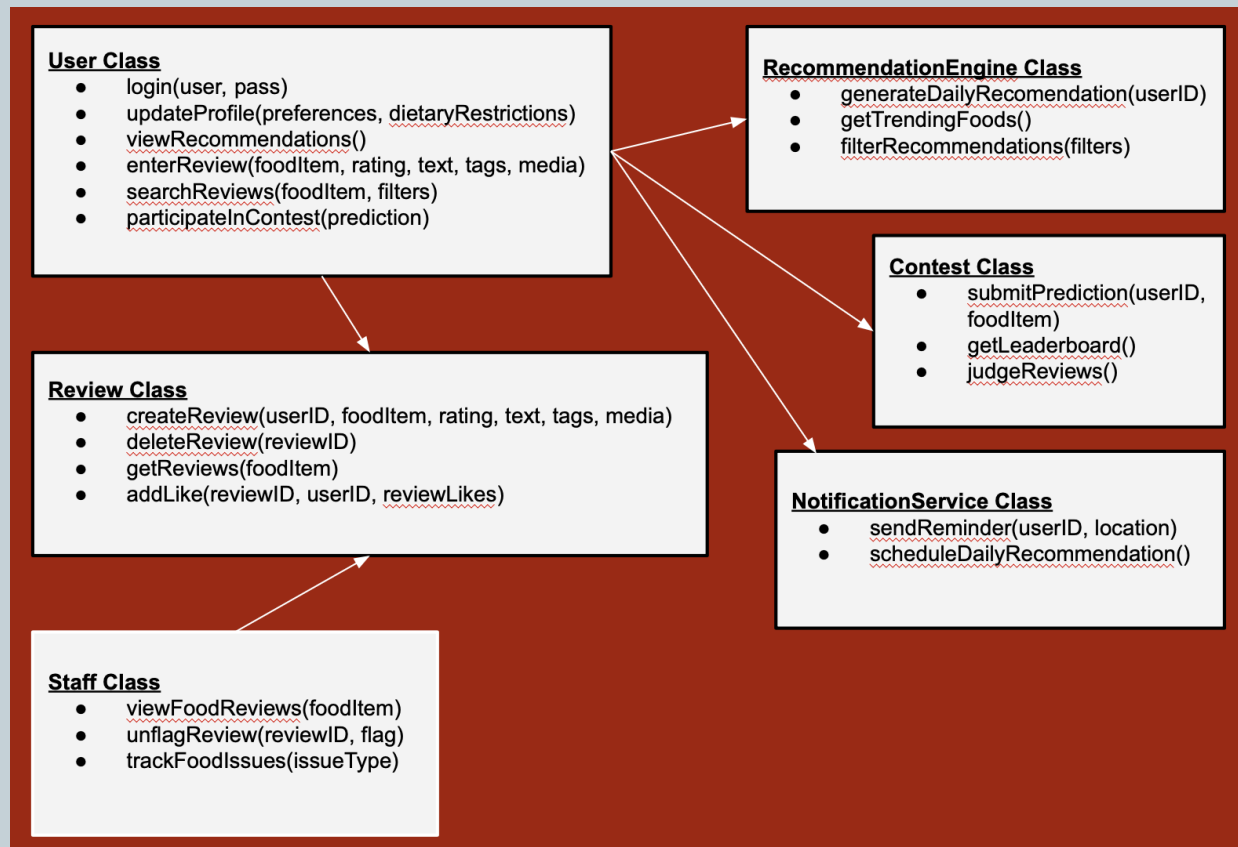
- System Architecture Diagram

Task 6: Design Document

- ER Database Diagram

User Class
- login(user, pass)
- updateProfile(preferences, dietaryRestrictions)
- viewRecommendations()
- enterReview(foodItem, rating, text, tags, media)
- searchReviews(foodItem, filters)
- participateInContest(prediction)

RecommendationEngine Class
- generateDailyRecomendation(userID)
- getTrendingFoods()
- filterRecommendations(filters)

Review Class
- createReview(userID, foodItem, rating, text, tags, media)
- deleteReview(reviewID)
- getReviews(foodItem)
- addLike(reviewID, userID, reviewLikes)

Contest Class
- submitPrediction(userID, foodItem)
- getLeaderboard()
- judgeReviews()

NotificationService Class
- sendReminder(userID, location)
- scheduleDailyRecommendation()

Staff Class
- viewFoodReviews(foodItem)
- unflagReview(reviewID, flag)
- trackFoodIssues(issueType)

Task 6: Design Document

- GUI Mockup
  - Login screen

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?