

Tasteful Panthers: PDH Food Recommendation

TEAM MEMBERS

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Why?

Goal

- ▶ Provide personalized dining recommendations for guests at Panther Dining Hall (PDH)

Motivation

- ▶ Improve the campus dining experience by simplifying meal decisions
- ▶ Provide a connected platform for food reviews and guest interactions
- ▶ Allow guests to report food issues directly to PDH staff

Approach

Recommendations

- ▶ Guests receive tailored meal suggestions based on:
 - ▶ Dietary restrictions/preferences
 - ▶ Past meal choices and food reviews
- ▶ Ensures guests are immediately aware of dining options suited to them
- ▶ Notifications sent upon arrival at PDH

Approach

Reviews

- ▶ Guests can leave feedback on meals:
 - ▶ Text reviews, images/videos, star ratings, and tags
 - ▶ Highlight issues or share satisfactions
- ▶ Reviews help other guests make informed decisions
- ▶ Notifications remind guests to review meals halfway through meal at PDH

Approach

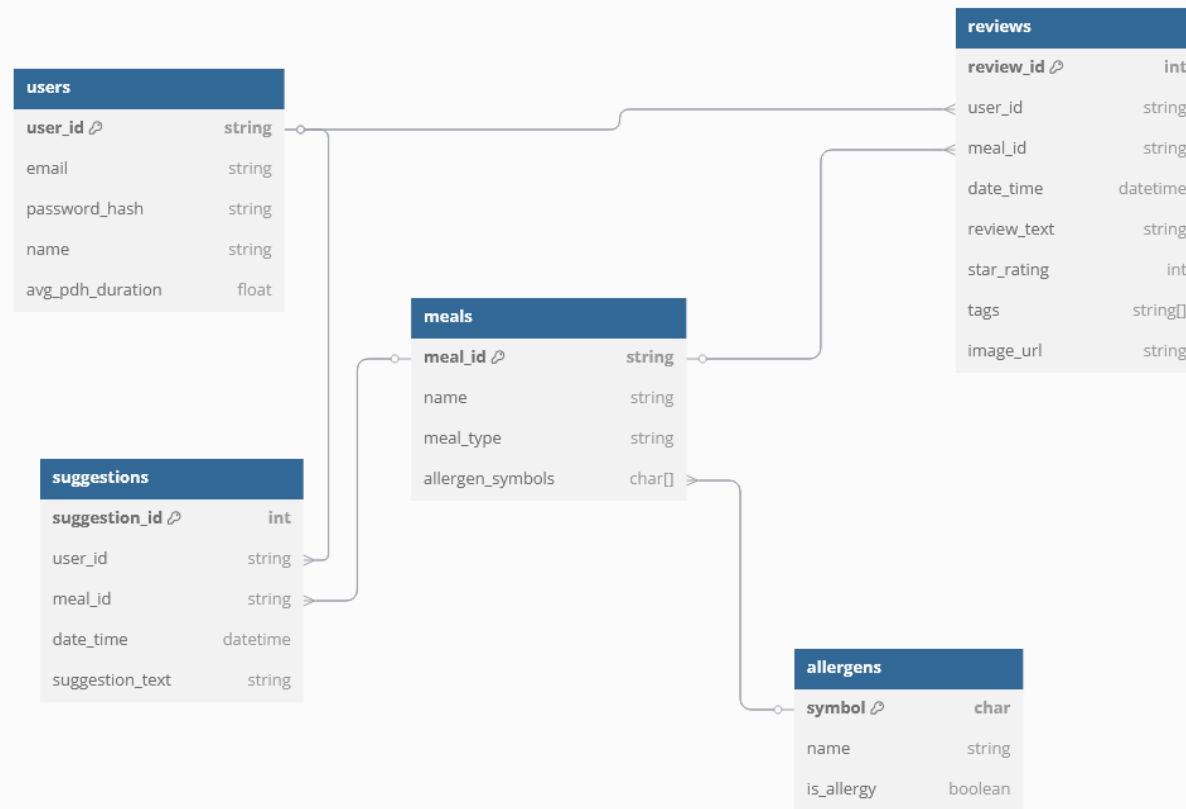
Contests & Leaderboards

- ▶ *Top Review of the Week*: Based on positive ratings received from other users
- ▶ *Tomorrow's Prediction*: Predict the highest-rated food item for the next day
- ▶ Games boost engagement and foster a community for the app

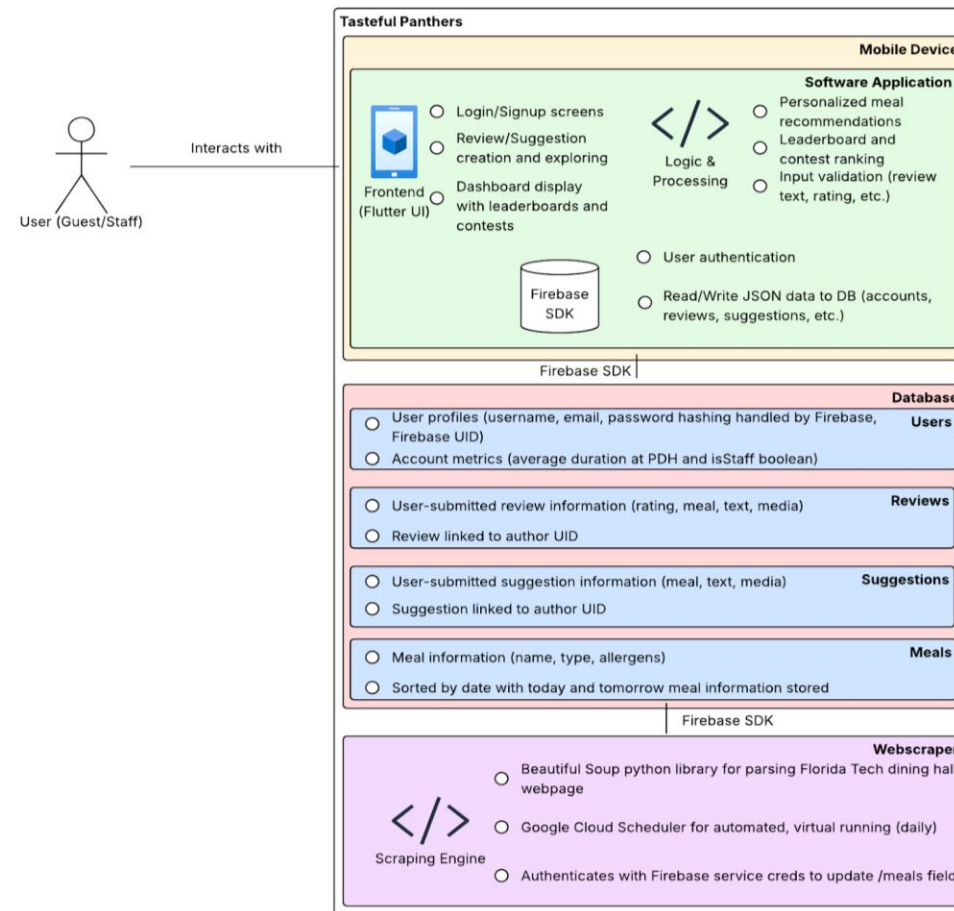
Platforms & Tools

- ▶ Programming Language: Dart (Flutter's iOS & Android language)
- ▶ IDE: VSCode
- ▶ Database & Encryption: Google Firebase Database
- ▶ Web Scraping: Python web scraper ran on DB machine.
- ▶ Phone Emulation: Android Studio

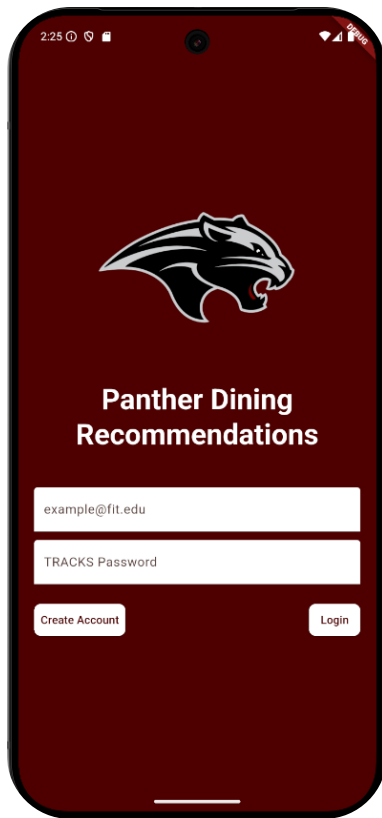
Database Entity-Relationship Diagram



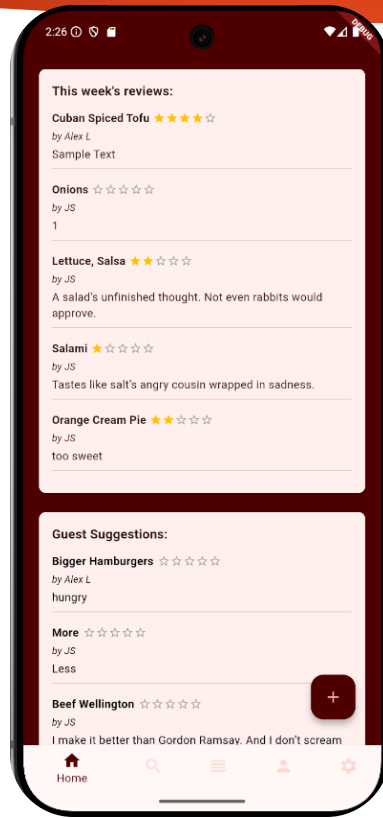
System Architecture Diagram



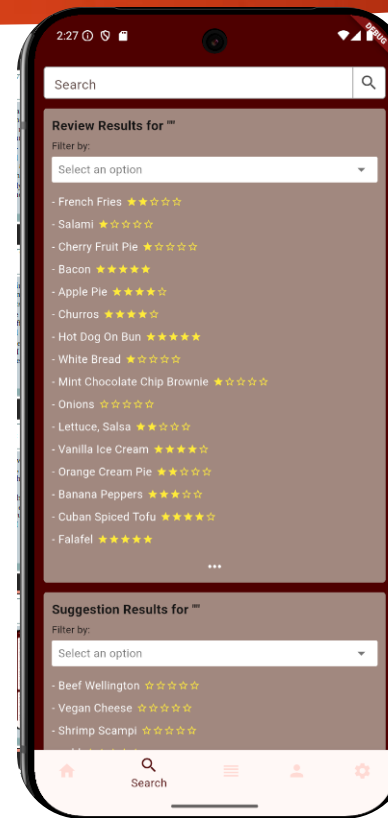
App Screens



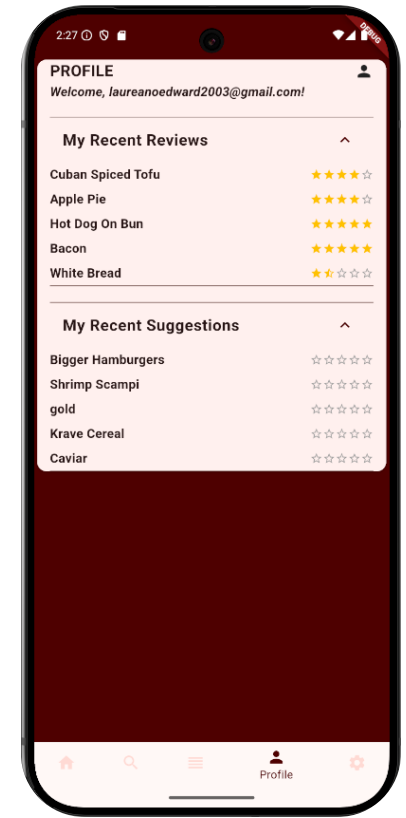
Log In Screen



Home Screen



Search Screen



Profile Screen

Progress Summary

- ▶ Strong and tested foundation has been built
- ▶ Expanding foundation to allow staff to handle issues and contests should not be a large hurdle at all
- ▶ Greater efforts are focused on active polish and testing going forward so that our final product isn't plagued by bugs.

Milestone 4 (Sep 29)

- ▶ Incorporate video and quicker food finding functionality into reviews
- ▶ Enable review filtering via star ratings, tags, keywords, etc.
- ▶ Notify user when entering PDH and when halfway through meal
- ▶ Update user profile to include favorite dishes and improve general profile display
- ▶ Implement personalized meal recommendation via 'Tasteful Twin' metric

Milestone 5 (Oct 27)

- ▶ Implement full staff view and functionality
- ▶ Release demo app for user testing
- ▶ Test and debug GPS function
- ▶ Design and begin leaderboard/contest implementation
- ▶ Demo guest dashboard with all main components

Milestone 6 (Nov 24)

- ▶ Create Poster
- ▶ Fully implement contest and leaderboard functionality
- ▶ Test all app features and functions
- ▶ Implement extra features/platforms

Milestone 4 Task Matrix

Task	Alex	Anthony	Jiahao	Lexi
Notifications	0%	100%	0%	0%
Writing Reviews	100%	0%	0%	0%
Reading/Search ing Reviews	0%	0%	100%	0%
User Profile	0%	0%	0%	100%
Recommendatio n Algorithm	25%	25%	25%	25%

Conclusion

Questions?