

Tasteful Panthers: PDH Food Recommendation

TEAM MEMBERS

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Tasteful Panthers

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

Milestone 4 Task Matrix

Task	Alex	Jiahao	Anthony	Lexi
Writing Reviews	100%	0%	0%	0%
Reading / Searching Reviews	0%	100%	0%	0%
User Profile / Staff View	0%	0%	0%	100%
Notifications	0%	0%	100%	0%
Personalized Meal Algorithm	25%	25%	25%	25%

Task 1 – Writing Reviews

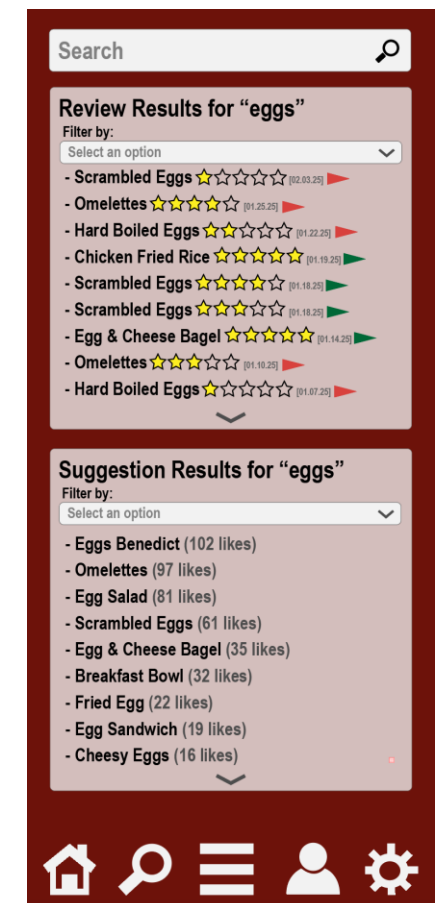
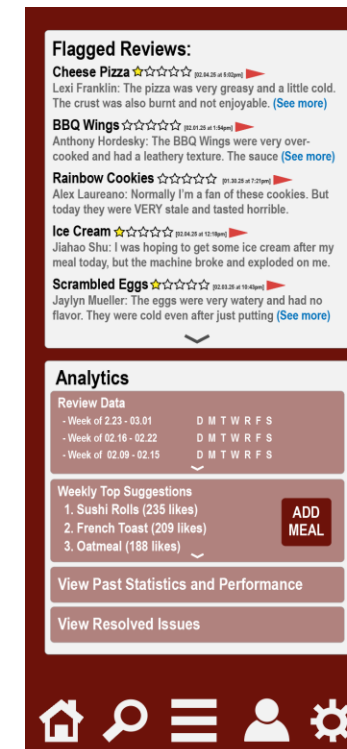
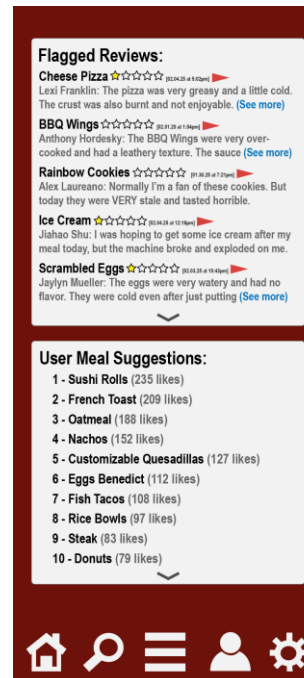
- ▶ Implemented alphabetical sort buttons in UI as well as favorites button
 - ▶ Used to be scrolling list of all meals for a day, now split into 3 scrolling lists: A-H, I-Q, R-Z
- ▶ Implemented image and video preview when reviewing foods
- ▶ Implemented video compression and storage to DB
 - ▶ Not yet able to view videos in app, but soon to be implemented

Task 2 – Reading / Searching Reviews

- ▶ Able to view review images when searching for them in an expanded informational view for reviews
 - ▶ Clicking on a review in the search window shows a popup with detailed review information, including images, author, rating.
- ▶ Can now like reviews when reading them
 - ▶ Liking integral to *Top Review of The Week* metric.
- ▶ Not yet able to display video

Task 3 – User Profile / Staff View

- ▶ Small changes remaining to add to profile view as it is largely a design placeholder right now
 - ▶ Will replace placeholder info with current user's data from DB
- ▶ Design of staff view finalized
 - ▶ Awaiting implementation



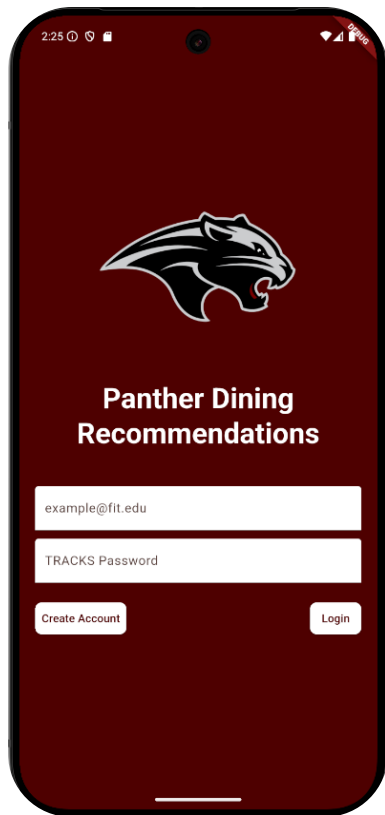
Task 4 – Notifications/Geofence

- ▶ Old geofence was a deprecated Flutter library that we cloned and referenced from our personal Github – not ideal but worked for the moment
- ▶ Changed geolocation service to active Flutter library – Geolocator with workmanager
- ▶ Workmanager to handle foreground and background location tracking
- ▶ Notifications are still be handled with flutterlocalnotifications package and are not actionable meaning they redirect accordingly
- ▶ Initial notification goes to personalized meal recommendation, and second notification directs to review/suggestion creation

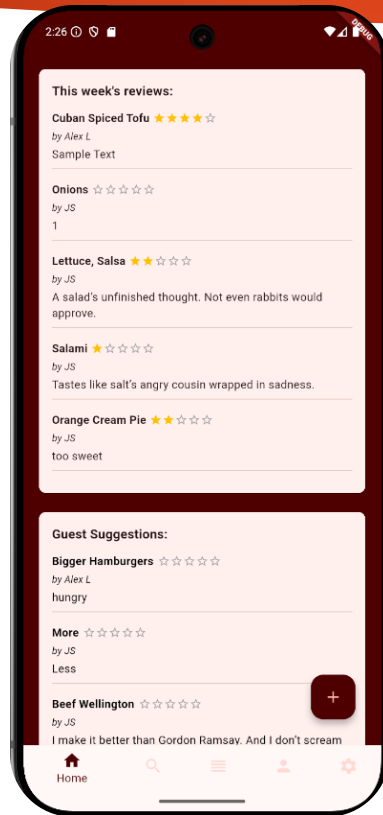
Task 5 – Personal Recommendation Algorithm

- ▶ Theoretically completely worked out
 - ▶ Use favorite foods from individuals with similar taste, called the “Tasteful Twin” metric.
- ▶ Not yet implemented
 - ▶ Once implemented, will need test data to debug

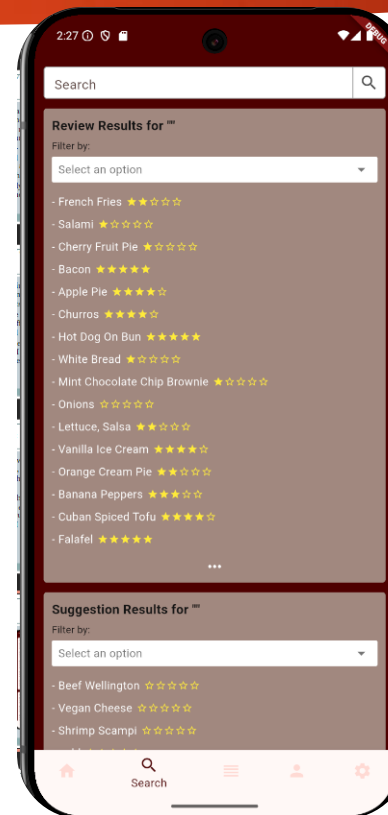
App Screens



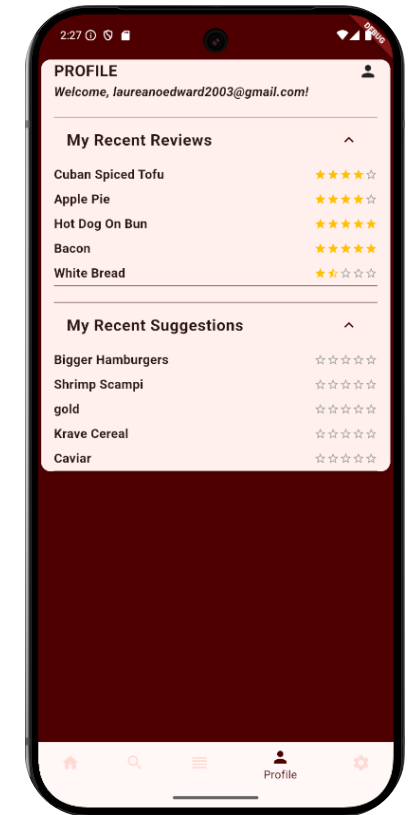
Log In Screen



Home Screen



Search Screen



Profile Screen

Milestone 5 Task Matrix

Task	Alex	Jiahao	Anthony	Lexi
Implement staff view and functionality	100%	0%	0%	0%
Release demo app	0%	100%	0%	0%
GPS full functionality tested	0%	0%	100%	0%
Design social screens	0%	0%	0%	100%
Test & polish guest dashboard	25%	25%	25%	25%



Conclusion

Questions?