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

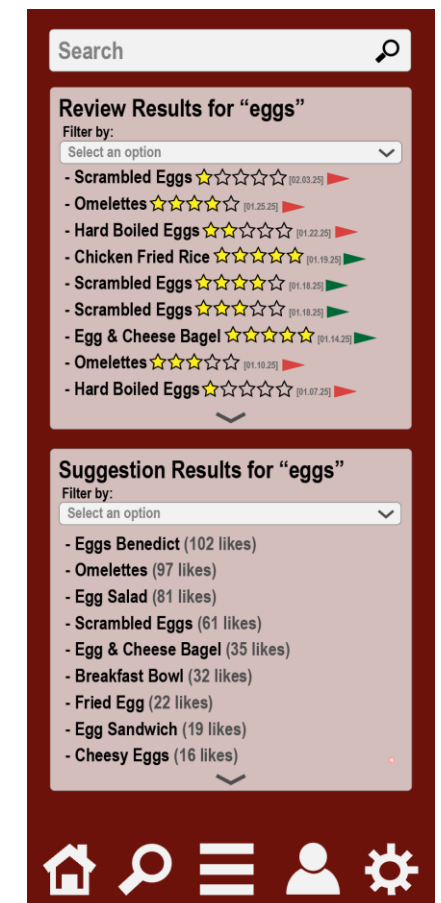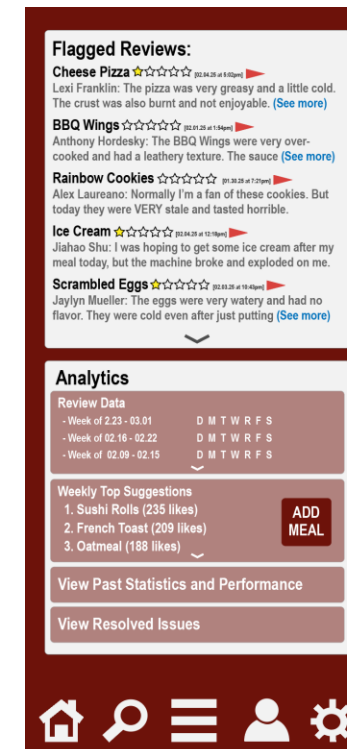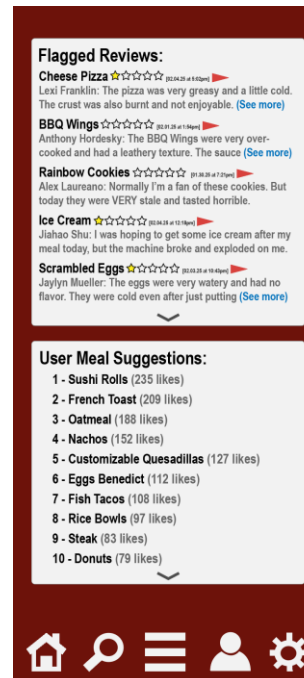| Task	Alex	Jiahao	Anthony	Lexi
Writing Reviews	100%	0%	0%	0%
Reading / Searching Reviews	0%	100%	0%	0%
User Profile / Staff View	0%	0%	0%	100%
Notifications	0%	0%	100%	0%
Personalized Meal Algorithm	25%	25%	25%	25%

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

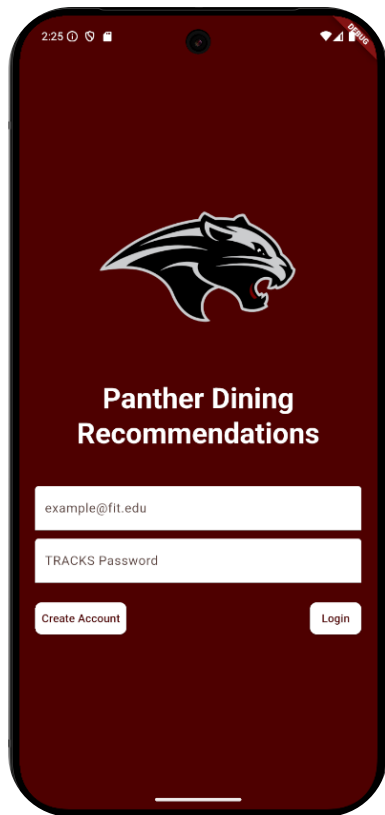▶ Design of staff view finalized

  ▶ 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 now actionable meaning they redirect accordingly

▶ Initial notification goes to personalized meal recommendation, and second notification directs to review/suggestion creation
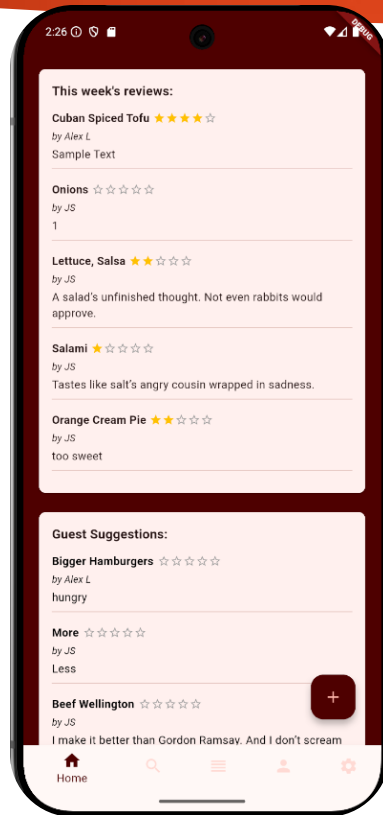
Task 5 – Personal Recommendation Algorithm

▶ Theoretically completely worked out

  ▶ Use favorite foods from individuals with similar taste, called the "Tasteful Twin" metric.

▶ Not yet implemented
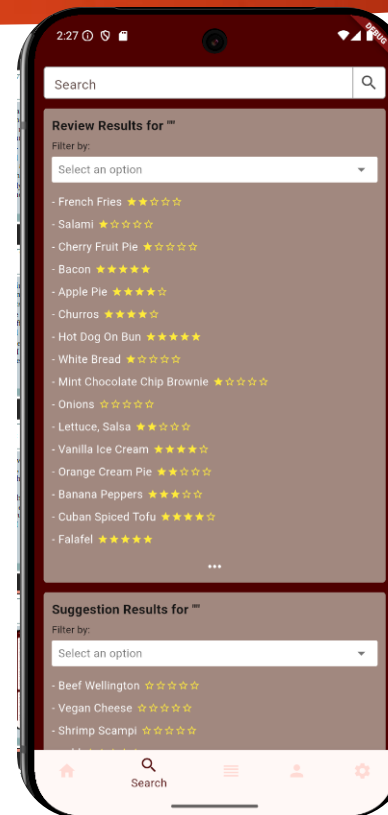
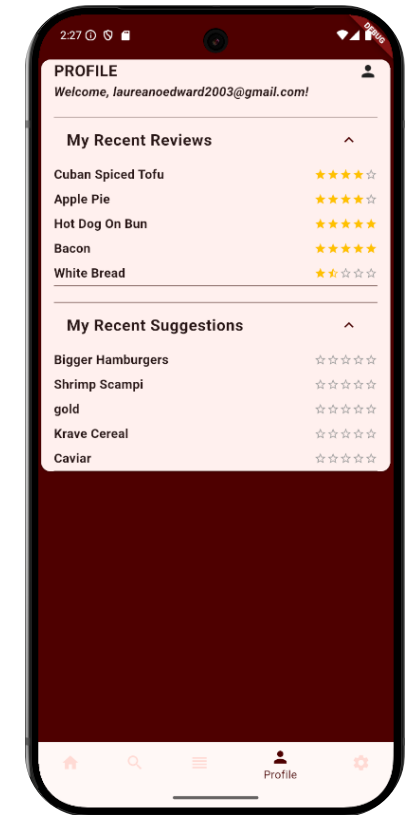 ▶ Once implemented, will need test data to debug

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?