Milestone 5 Progress Evaluation

Tasteful Panthers: Food Recommendation at Dining Halls

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Current Milestone Task Matrix

Task	Completion	Alex	Jiahao	Anthony	Lexi	To do
Staff View	25%	0%	0%	0%	100%	Implement from design
Demo App	90%	25%	25%	25%	25%	Polish before release
GPS Full Functionality	100%	0%	0%	100%	0%	Complete
Design Leaderboard and Social Screens	50%	100%	0%	0%	0%	Implement prediction game
Guest Dashboard	90%	0%	0%	100%	0%	Implement Prediction Game

Discussion of Tasks

Staff View - Not yet begun due to set backs in other areas, but will be simple to implement and polish.

Demo App - Very nearly complete, as finishing touches are made to important guest features, the app very rapidly approaches beta phase.

GPS Full Functionality - Notifications, GPS, and time recording are fully complete and run in both foreground and background of the user's device. The initial, first recommendation alerts the

user of personal meal recommendation and redirects them to the dashboard. The second notification, sent halfway through the user's visit to PDH using time recording calculated in app and stored in Firebase, redirects the user to submit a review.

Design Leaderboard and Social Screens - Screens are nearly entirely implemented, though further design decisions need to be finalized before all can be done.

Guest Dashboard - Nearly complete, functionality has been added to all but prediction features, which are being worked on at the time of writing this. This means that suggestions via tasteful twin metric, crowd favorites, and like competitions are functional, though not entirely polished to the best standard. One point of note is that the dashboard tab that contains suggestions that became real doesn't have any real code implementation as of yet, and instead takes strings to display there, with a placeholder mentioning that no meals have yet been made real via suggestions.

Discussion of Contribution
Alex Laureano: This milestone, I worked on a number of new features, mainly improving search and building out the dashboard. I refactored the original search feature (first implemented by Jiahao) to use a standard review display card that lets users open a detailed view for each result. I also added sorting by time and rating, along with filters for star rating, review text, meal name, and author.

Most of my time went into expanding the dashboard with features like personalized suggestions, crowd favorites, personal favorites, and popularity tracking. The suggestion feature finds "tasteful twins," or users with similar preferences, and recommends top-rated meals among them. The crowd favorites feature averages all reviews for the day's meals and shows the top three.

For the popularity system, I added a new table to the database to keep track of user popularity. It works with a unified review model I built to handle inserting, deleting, and updating reviews more reliably.

I also created a review seeder and purger tool that generates test reviews for each user and removes them later based on a test flag. This made it easier to test and manage data during development.

Anthony Hordesky: I implemented time recording and calculation for storing the user's average time spent in PDH. This is currently being stored as seconds and can probably stay that way since users are not spending hours in PDH. Time recording itself is done by calculating the difference between the user's recorded entrance time stamp and exit time stamp. Following this, the user's average visit time is updated using the formula for average given just their last average the most recent visit time. I also began work on improving the search functionality. Moving forward, I need to help create our poster and put more time into adding the major app features which have yet to be worked on.

Jiahao Shu:I implemented the User Popularity feature on the dashboard. Now it displays each user's total number of likes and current rank. When clicked, the card opens an interactive leaderboard drawer that lists all users, their ranks, and popularity scores. The leaderboard supports switching between "This Week," "This Month," and "All Time," with real-time data retrieved from the Firestore userPopularity collection. I also handled the empty state scenario — when a user has zero likes, the card shows a friendly "Get your first like ✨" message instead of a rank.

Lexi Franklin: For this milestone my primary task was to take the staff view design and start to implement the screens into the app. While most of the staff view has been created, it is not fully functional at the moment. Our primary focus was getting recommendations working, which we did. Implementing functionalities of staff screen will be part of our next milestone. Thus far, buttons and basic functionality do work, but nothing in depth as we will need to do more testing with test data to ensure full performance. Alongside this, I have also started to draft poster design for the design showcase, although we as a team have not made any official decisions on it yet.

Next Milestone (M6)

Task	Alex	Anthony	Jiahao	Lexi
Create Multimedia Reviews	100%	0%	0%	0%
Implement Contest and Leaderboard Functionality	100%	0%	0%	0%
Update Search Feature	0%	100%	0%	0%
Implement, Test, and Demo Guest Dashboard with 6 Features	25%	25%	25%	25%
Implement, Test, and Demo Staff Dashboard and Components	0%	0%	0%	100%
Create Poster	0%	0%	0%	100%
App Demo Video	0%	0%	100%	0%

Write User and/or Developer Manual	0%	100%	0%	0%
Implement, Test, and Demo All App Features/Functions as Whole System	0%	0%	100%	0%

Discussion of Planned Tasks
- Implement multimedia reviews aka creating reviews with both images and videos
- Update search functionality to reflect Amazon search process utilizing filters
- Implement tomorrow's prediction contest
- Implement leaderboard functionality for top reviewer and tomorrow's prediction scoring contests
- Finalize guest dashboard screen with 6 main features including tasteful twin, my favorite, crowd favorite, suggested dishes come true, top reviewer, and tomorrow's prediction
- Write and implement test cases for basic functionality of app to prepare for demo/release
- Complete staff dashboard conceptualization
- Fully implement and test the three required components according to 3.2.2.2 in Requirements Document
- Draft project poster and create final version
- Implement and demo project components as a whole system
- Evaluate the whole system (check the corresponding section in the project plan for this semester)
- Record app demo
- Write user and/or developer manual

Dates Met With Client: 10/10, 10/24

Client Feedback
See Faculty Advisor Feedback below.

Dates Met
We met with our Client/Faculty Advisor on 10/10 and 10/24

Faculty Advisor Feedback
October 10th 2025
1. Creating Reviews
   a. Allow multimedia aka both images and videos to reviews
2. Search by ratings, reviews, and tags
   a. Predefined tags allow user to search by selecting tags instead of typing

        b. Similar to amazon search filtering, gives the option for normal search and filtering by tags and/or user

3. GPS/Notification
   a. Get second notification completed
   b. Record entrance and exit times for calculating duration
   c. Average using equation to store in user profile
4. User Profile
   a. Incorporate duration from item 3
5. Personal Recommendation aka Tasteful Twin
   a. Based on multiple ratings from multiple users
   b. Create ~10 users and ~10 dishes and provide ratings for them
6. Contests & Leaderboards
   a. No Progress
7. Guest Dashboard
   a. No Progress
   b. Ordering of components
      i. Tasteful Twin -> Guest with similar dishes info screen
      ii. My Favorite -> Profile screen
      iii. Crowd Favorite -> Today's Leaderboard
      iv. Suggested Dishes Come True -> Dishes that are suggested but not true yet
      v. Most Liked Reviewer -> Leaderboard, top ten ranking of reviewers
      vi. Guess Tomorrow Contest -> Leaderboard, top ten ranking of guessers/users who get the most correct guesses, resets every week
8. Dish Suggestions
   a. Allow user to include a link for recipes, third field in suggestion creation
   b. Color code suggestions vs reviews, suggestions blue and reviews red, change application background to white/grey
   c. Suggestions are on a different screen than reviews, remove settings from navbar and put it in profile screen
9. Crowd Favorite
   a. Ranking of current dishes based on reviews, separate screen linked from dashboard

Oct 24 2025
1. Creating Reviews with Images & Video
   a. No Progress
2. Amazon Type Search w/ Stars, Tags, Filters
   a. Unknown Progress
3. Notifications
   a. Unknown Progress
4. User Profile
   a. Unknown Progress
5. Tasteful Twins

a. Clicking on a recommendation should give similar ratings of dishes for the two users (user and their twin, explaining why)
b. 4 columns, each column is a user, showing similar ratings in a table
   i. Show dishes not rated by the user in the past
   ii. Display a table like this:

Me	Twin 1	Twin 2	Twin 3
Chicken Salad (?)	Chicken Salad (5)		
Normandy Blend (?)		Normandy Blend (4)	
Bacon Bits (?)	Bacon Bits (4.5)		
Pizza (5)	Pizza (5)	Pizza (5)	Pizza (4)
Hamburger (4)	Hamburger (4)	Hamburger (4)	Hamburger (5)
…	…	…	…

6. Contests & leaderboards
   a. Popularity -> Most Liked Reviews
      i. my ranking
      ii. Current leader
   b. Similarly for predictions
      i. Predictions -> predictions of the highest rated dish
      ii. Show leaderboard when clicked, order by ranking
7. Guest Dashboard
   a. Components
      i. My Favorite -> Profile screen
      ii. Crowd Favorite -> Today's Leaderboard
      iii. Suggested Dishes Come True -> Dishes that are suggested but not true yet
8. Dish Suggestions
   a. No Progress
9. Crowd Favorite
   a. No Progress