Milestone 6 Progress Evaluation

Tasteful Panthers: Food Recommendation at Dining Halls

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Current Milestone Task Matrix

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/ Developer Manual	0%	100%	0%	0%

Test and Demo All App Features & Functions as Whole System	0%	0%	100%	0%

Discussion of Tasks

Create Multimedia Reviews - Having user error when testing, working on ironing out for full functionality of images AND videos.

Implement Contest and Leaderboard Functionality - Implemented, but need to update to show the full leaderboard when selected by the user.

Update Search Feature - Feature updated to implement searching via tags, similar to Amazon's search engine. This involves using filters to sort search results.

Implement, Test, and Demo Guest Dashboard with 6 Features - Testing has been started and continues to be done to flatten out any errors discovered.

Create Poster - Poster modified to be more clear and concise, include relevant screens, and overall use space better. Removed ER diagram to allow for space for more necessary information. Waiting to add evaluation results based on user testing feedback.

App Demo Video - Waiting to iron out final errors to create a quick and informative demo video showcasing why dining guests would want to use the app.

Write User/Developer Manual - User manual complete, edits being done after feedback from advisor. Need to separate core features into guest and staff sections. Merging sections 3 and 4 for clarity, as well as separating reviews and suggestions. Still need to add visuals to help users better navigate the app.

Test and Demo All App Features and Functions as a Whole System - Currently testing the entire application as revisions are made. Minor kinks continue to be found, so testing is further continued to ensure full functionality of the app.

Discussion of Contribution

Alex Laureano: For this milestone, I focused primarily on implementing new features that enhance guest engagement and prediction accuracy. I developed the popularity leaderboard, which ranks meals and reviewers based on user interaction and displays results in real time. I also built the personalized recommendation system, which tailors daily meal suggestions to individual guest preferences and review history. In addition, I designed and integrated the cloud scheduler functions that drive the prediction contest, ensuring that the system automatically generates and updates forecasts of upcoming menu items. These components required extensive backend work to coordinate data flow between guest activity and the recommendation algorithm, and I devoted most of my effort this milestone to ensuring they were functional, scalable, and ready for testing.

Anthony Hordesky: I completed the in-person testing of the geofence with notifications, verifying that the system properly picks up user location and sends location & time based notifications. I also made some minor modifications to the app including an editable average pdh duration section under the guest user profile and changed logout functionality to stop geofence tracking and resume when authenticated user logs in again. Along with this, I was able to merge my system with Alex's so we have a complete deliverable. Finally, I wrote the user manual.

Jiahao Shu: During this phase, I migrated the app from the emulator to real mobile devices and verified that all major features function correctly on physical hardware, resolving several device-specific compatibility issues. I also packaged and exported the mobile build for distribution, enabling external testers to install and try the app directly on their phones. In addition, I completed the User Manual, providing clear guidance for onboarding, feature usage, and basic troubleshooting.

Lexi Franklin: This milestone, I primarily tested the app as a whole to find any errors or flaws in the programming. I also helped design parts of the poster and helped with the user manual. Various issues were found while testing/debugging the system as a whole that have been fixed to ensure full functionality.

Discussion of Planned Tasks
- Complete testing for app as an entire system
- Create a demo video to showcase the app's functionality
- Finalize user manual with images included
- Finalize poster with necessary information and pictures
- Test app with users outside design group (and CS majors) and survey users based on experience as well as tracking metrics for how long users take to complete specific tasks

Dates Met With Client: 11/7 and 11/21

Client Feedback
See Faculty Advisor Feedback below.

Dates Met
We met with our Client/Faculty Advisor on 11/7 and 11/21

Faculty Advisor Feedback
November 7, 2025
1. Creating Reviews with Images & Videos
   a. no progress
2. Amazon-Type Search
   a. okay
3. Notifications
   a. outdoor real-time test

4. User Profile
    a. Email address
    b. Duration at PDH
        i. User can manually change this
    c. Favorite dishes
5. Tasteful Twins
    a. More efficient table

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

6. Contests & Leaderboards
    a. Popularity
    b. Prediction
        i. Need to update to show leaderboard when selected
7. Guest Dashboard
    a. Components
        i. My Favorite → Profile screen
        ii. Suggested Dishes Come True → Dishes that are suggested but not true yet
            - Manually add suggestion for testing
8. Dish Suggestions
    a. Suggestion page shows my suggestions, location for adding your own new suggestions
    b. Another page showing leaderboard of all suggestions
9. Staff Dashboard
    a. No Progress
    b. Fully implement and test the three required components according to 3.2.2.2 in Requirements Document
10. Poster
    a. Not so many sentences, use bullets
    b. In middle column, move user elsewhere to minimize empty white space
    c. Instead of ER diagram, show more screens

          i. Show *What* it does
- d. Important Screens w/ Large screenshots
  - i. Dashboard
  - ii. Review Screen
  - iii. Tasteful Twin table
  - iv. Prediction Leaderboard
- e. Switch "Implementation" w/ "Tools"

11. Evaluation
  - a. Speed
  - b. Accuracy
  - c. Reliability
  - d. User Survey
    - i. Timed tasks for users (spectrum of technicality, not devs or classmates) indicating ease of use, objective metric to describe ease i.e. time it takes to write and submit a review, find a review, enter a suggestion
    - ii. Users should not be one of us
    - iii. Show results in table, user as columns, tasks as rows
    - iv. Bar graph with x as users and y as time, 3 graphs 1 per task
    - v. Ask for feedback from users; pros and cons, provides us with future improvements

12. Implement and demo project components as a whole system
  - a. Go through every screen and provide demo, should be integrated with real data

13. Record app demo
  - a. Brief demo that shows important aspects of why users want to use the app
  - b. Not too long, no more than 5 mins, 2 mins is good
  - c. Show things difficult to show on poster like in-person geofence notification trigger

14. Write user and/or developer manual
  - a. User manual is instructions or steps for functionality
    - i. 2 pages per team member (8)
  - b. Developer manual: top level organization of source code
    - i. System Architecture Diagram including modules
    - ii. Module Level - Separate into modules
    - iii. File Level - In each module, describe different files that support it
    - iv. Function Level - Specific key functions within each file; parameters, return values, etc.

November 21, 2025

1. Creating Reviews with Images & Videos
  - a. No progress
  - b. User permission error

2. User Profile
  - a. Duration at PDH w/ manual change

3. Tasteful Twins
   a. Investigate algorithm and why second user is being included
4. Prediction Contest
   a. Need to update to show leaderboard when selected
5. Dashboard
   a. My Favorite -> Profile screen
   b. Suggested Dishes Come True -> Dishes that are suggested but not true
      i. Add suggestions that happen to be on the menu now
6. Staff Dashboard
   a. 2 screens, second screen for suggestions
      i. Leaderboard for top suggestions
      ii. Separate section for planning future meals
      iii. Refer to requirements document 3.2.2.2
7. Poster
   a. Correct screenshot for prediction leaderboard
   b. Evaluation results - at least three timed tasks like writing a review or finding their tasteful twins, record time taken to complete each task
   c. Limitations/Improvements from user survey
8. Evaluation
   a. Speed
   b. Accuracy
   c. Reliability
   d. User Survey
      i. Timed tasks for users (spectrum of technicality, not devs or classmates) indicating ease of use, objective metric to describe ease i.e. time it takes to write and submit a review, find a review, enter a suggestion
      ii. Users should not be one of us
      iii. Show results in table, user as columns, tasks as rows
      iv. Bar graph with x as users and y as time, 3 graphs 1 per task
      v. Ask for feedback from users; pros and cons, provides us with future improvements
9. User Manual
   a. Separate core features into guest and staff features
   b. Section 3 will become part of 4, navigating for staff w/ features for staff and navigating for guests w/ features for guests
   c. Separate reviews and suggestions
   d. Include more visuals, screenshots of screens associated with manual section
   e. Subsections of reviews include reading and writing reviews, screenshots of both
   f. Guests features section comes EARLIER, because many more users are guests, compared to staff

10. Record app demo
    a. Brief demo that shows important aspects of why users want to use the app
    b. Not too long, no more than 5 mins, 2 mins is good
    c. Show things difficult to show on poster like in-person geofence notification trigger
11. Suggestions
    a. Users should be able to vote on suggestions made by authors
    b. Show a leaderboard that ranks suggestions on likes