

pickyboiler

Team 23 Sprint 3 Planning Document

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Sprint Overview

In this sprint we will be focusing on tying up a few loose ends left over from sprint 2 before pushing onward to implement the planned off-campus functionality of the app. Functionalities to be added include: displaying off campus restaurants in the off campus tab, and allowing one to sort these restaurants based on desired traits; the ability for the user to both leave a rating of a dining court while viewing a “global” rating; allowing users to create and share custom preferences; and finally to give the user the off campus restaurants in a ranked manner similar to to dining courts on campus.

Scrum Master: Wonwin Viwathpongpan

Scrum Meeting: Wednesdays 10:30 - 11:20 am

Risks and Challenges:

This sprint will likely present the most difficulties we will have faced to date, as several of the user stories to be implemented will either involve using the Google API, which we are unfamiliar with, or involve communicating with a backend database, which will likely cause many difficulties in our implementations. As none of us have experience with implementing databases, this will be one of the largest obstacle to overcome during this sprint.

User Stories

User story #12

As a user, I would like to view nutritional values for each food dish, so that I can decide which dish is healthy.

#	Description	Time (hrs)	Owner
1	Add button to popup displayed when user clicks menu item.	1	Corey
2	Add function to redirect user to item's nutrition webpage	3	Corey

Acceptance Criteria / Testing Criteria:

1. Given that a user clicks on a menu item, a popup with the option to see the item's nutrition information should appear.
2. Given that a user clicks the button to display nutrition information, a webpage with the item's information should be displayed.
3. Given that a user mistakenly presses on a menu item, when they do not want to view nutrition information, the user should be able to close the popup without any crashes.

User story #15

As a user, I would like to view locations of places where I can use my dining dollars, so that I can easily spend my dining dollar before it expires.

#	Description	Time (hrs)	Owner
2	Modify off campus UI to display only restaurants that accept dining dollars according to user input	3	Corey
3	Create function that redirects user to map upon clicking restaurant banner	6	Corey
4	Create function to display open restaurants accepting dining dollars on opened map application	3	Corey

Acceptance Criteria / Testing Criteria:

1. Given a user selects the option to view only restaurants that accept dining

dollars, the app should seamlessly reload the page to display only those restaurants.

2. Given a user clicks on one of the displayed banners, the user should be redirected to Google maps with the restaurant's location displayed.
3. Given a user selects the option to view only restaurants that accept dining dollars

User story #16

As a user, I would like to view off campus restaurants if all Purdue dining courts are closed, so that I can easily find place to eat when dining courts are closed.

#	Description	Time (hrs)	Owner
1	Create function to retrieve all nearby restaurants from user location	6	Wonwin
2	Create function to parse all necessary information from received JSON for other modules to display	6	Wonwin
3	Create and implement a functional map to display locations of off campus restaurants	8	Jackson
4	Create function to pin selected off campus restaurants and make the pins interactable	5	Jackson
5	Create function to display basic restaurant information in a popup when clicking on a restaurant locations	5	Jackson
6	Create function to implement tabs in the off campus page	3	Jackson
7	Create parser function to collect map and restaurant data	4	Jackson

Acceptance Criteria / Testing Criteria:

1. Given a user selects the off-campus page, a list of all nearby restaurants will be listed in a display.
2. Given that a user selects the map tab, a map of all nearby off campus restaurants will be displayed.
3. Given that a user selects a restaurant pin on the map, basic information of the restaurant will be displayed in a pop-up.

User story #17

As a user, I would like to get ranked suggestions for off campus restaurant based off of my food preferences, so that I can explore more dishes I might like.

#	Description	Time (hrs)	Owner
1	Create function within database to store a user's dietary practices along with their highly ranked restaurants so users can get ranked suggestions	6	Jackson
2	Create function within database to gather highly ranked restaurants from users with similar dietary practices	4	Jackson
3	Create function to display list of suggested restaurants to the user	6	Jackson

Acceptance Criteria / Testing Criteria:

1. Given that a user selects the off campus page a ranked list of suggested restaurants will be displayed to the user.
2. Given that a user ranks a restaurant, the app will send information about their dietary practices to the database.
3. Given that a user ranks a restaurant, the dietary information is connected with their highly ranked restaurants in order to give users suggestions.

User Story #29 (improvement to User Story #9)

If time allows, as a user, I would like to create my own dietary template to exclude food item that I dislike

#	Description	Time (hrs)	Owner
1	Create input box so that users can enter food item that they want to exclude from their food preferences	3	Siravit
2	Edit the banner design for all on-campus dining courts to allocate more space for showing excluded food items	4	Siravit
3	Implement a button and a corresponding function to save user inputs as excluded food items	5	Siravit

4	Create a scrollable list to display all excluded food items that the users have saved in the application	4	Siravit
5	Create SharedPreferences function to store all dislike items	5	Wonwin
6	Create SharedPreferences function to return the list of all disliked item	4	Wonwin
7	Edit sorting algorithm to take into account dislike items	4	Wonwin
8	Ensure that the excluded food list is ordered alphabetically	1	Siravit
9	Ensure that user inputs in the diets tab are lexically correct. Toast message warnings should appear when users type in blank inputs or weird symbols.	3	Siravit
10	Implement a method that checks for conflicts between favorites tab and diets tab. Same food items should not appear in both tabs at the same time.	5	Siravit
11	Implement a function to add and remove items between favorite list and dislike list in case of task #10 conflict happens	5	Wonwin
12	Implement in-app notifications to notify users when they cause a conflict that is stated in task #10	4	Siravit

Acceptance Criteria / Testing Criteria:

1. Given disliked food module has been implemented when user tries to input dislike menu, the item should be saved.
2. Given input with symbols when user submit favorite menu item, then the app should notify user to correct the mistakes.
3. Given repeated favorite menu is entered when user submit the list, then the app should notify user that the menu is already in the list.
4. Give a blank favorite menu is entered when user submit the list, then the app should not do anything.
5. Given a specific item has been hentered, when user tries to get sorted list of dining court, that item should not be considered.
6. Given a specific item is already in favorite list, when user enters that item again in dislike item, that item will be removed from favorite list.
7. Given a specific item is already in dislike list, when user enters that item again in favorite item, that item will be removed from dislike list.

User story #32

As a user, I would like to leave a review of a dining court, so that users can know how good is the service.

#	Description	Time (hrs)	Owner
1	Modify menu UI to display option for user to leave/view ratings	1	Corey
2	Implement function to accept user input on different ratings, or to display current ratings	3	Corey
3	Implement functionality to allow app to communicate with backend database, to either retrieve current ratings or to modify them with user response.	9	Corey
4	Create function to parse all user ratings in the database so that the app can request average user ratings and display them to the user	4	Jackson
5	Add appropriate checks to ensure that user cannot leave more than one rating per dining court	3	Corey

Acceptance Criteria / Testing Criteria:

1. Given a user selects the option to view dining court ratings, a display should appear that shows current rating and the option to rate the dining court themselves.
2. Given a user add their own rating, a notification should notify the user of success of adding rating.
3. Given a user has added a rating, the app should update total rating by communicating with database.
4. Given a user has submitted a rating for the dining court, the user should not be able to submit a second rating (but may update their current ratings)

Remaining backlog

Functional Requirements

1. As a user, I would like to see ranking of dining courts that have the most matches to my food preferences, so that I could easily choose which dining court to go.
2. As a user, I would like to view current food menus for all dining courts., so that I

could choose what to eat in the court.

3. As a user, I would like to add favorite food into my preferences by entering in keywords, so that I can easily matched all menu that matched my keyword.
4. As a user, I would like to add favorite food into my preferences by selecting specific serving menu, so that I can matched specific dish I like.
5. As a user, I would like an auto complete function when entering favorites, so that I have easier time typing and not having to worry about typo.
6. As a user, I would like to sort preference item alphabetically so that I can easily edit my preferences.
7. As a user, I would like to add allergens into my preferences, so that I could avoid food I have allergies to.
8. As a user, I would like to remove my food preferences (both favorite food and allergens), so that I can change my preference if I change my mind.
9. As a user, I would like to choose my dietary practices from premade templates, so that I don't have to spend long time building my preferences.
10. As a user, I would like to remove my dietary practices, so that I can change my practices preference if I change my dietary lifestyle.
11. As a user, I would like to remove my allergen preferences, so that I can change my allergen preference if my allergen changes.
12. As a user, I would like to view nutritional values for each food dish, so that I can decide which dish is healthy.
13. As a user, I would like to receive notification when my favorite dishes are being served, so that I don't have to open application to manually check.
14. As a user, I would like to receive timely notification for which dining court I should choose, so that I know which dining court to go without opening the application.
15. As a user, I would like to view locations of places where I can use my dining dollars, so that I can easily spend my dining dollar before it expires.
16. As a user, I would like to view off campus restaurants if all Purdue dining courts are closed, so that I can easily find place to eat when dining courts are closed.
17. As a user, I would like to get ranked suggestions for off campus restaurant based off of my food preferences, so that I can explore more dishes I might like.
18. As a user, I would like to get recommendations on menu I might like based on other users with similar preferences, so that I can explore dish I might like.
19. As a user, I would like to have a price filter for off campus restaurants, so that I can easily choose restaurants within my budget.
20. As a user, I would like to be able to refresh the app, so that I can get the latest dining court information.
21. As a user, I would like to be able to cache current dining court details, so that I can decide which dining court to eat without internet.
22. As a developer, I would like to collect anonymous user's preferences data, so that I can improve suggestion system.
23. If time allows, as a developer, I would like to explore more advanced data mining techniques to create better suggestion system, so that users can get better recommendation.

- 24.If time allows, as a developer, I would like to a web application version of the app, so that users can easily user our application on PC.
- 25.If time allows, as a user, I would like a ranking of off campus restaurants based on my preferences, so that I can easily choose where to eat off campus.
- 26.If time allows, as a user, I would like the application to work nationwide so that I can choose where to eat when I am travelling.
- 27.If time allows, as a user, I would like to get recommendations on menu based on my ethnicity, so that I can easily build my preferences from users' with similar taste.
- 28.If time allows, as a user, I would like the application to learn by itself overtime my dietary preferences, so that I don't have to manually create my preferences.
- 29.If time allows, as a user, I would like to create my own dietary template to exclude food item that I dislike
- 30.If time allows, as a user, I would like to be able to rate memu, so that users can know the quality of the dishes.
- 31.If time allows, as a user, I would like to leave a review of a dish, so that users can understand the rating.
- 32.If time allows, as a user, I would like to leave a review of a dining court, so that users can know how good is the service.
- 33.If time allows, as a developer, I would like to cooperate with Purdue to count number of people inside the courts, and number of seats left so that users can decide if they want to wait.
- 34.If time allows, as a user, I would like to see a ranking of dining courts based off of popularity at the current time, so that users can see which dining courts are busy.