

# Sprint 1 Retrospective

Team 23: pickyboiler

Corey Combs  
Jackson Sorrells  
Wonwin Viwathpongpan  
Siravit Tichachol

## What went well?

In Sprint 1, we have successfully implemented the core functionalities of our Android mobile application. Our app is now able to fetch on-campus dining court details from Purdue dining court API. The app can also save and edit users' food preferences. These food preferences include allergens, favorite food, and dietary preferences. Additionally, we have also satisfied the primary objective of the application, which is to help users choose which dining court to dine at by ranking dining courts based on users' food preferences. The overall user interface is clean and easy to navigate, with minimal user interruptions.

### User story #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.

#### Status: **Completed**

The app is able to correctly sort dining court based on users' saved food preferences. Users can see the dining court that best matches to their food preferences at the top of the on-campus dining court page.

### User story #3 and #6

- 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.
- As a user, I would like to sort food preference item alphabetically so that I can easily edit my preferences.

Status: **Completed**

The app is able to save and fetch users' food preferences from local SharedPreferences. Remote storage will be implemented in future for transferring and sharing of saved preferences. The app also sorts favorite food alphabetically on favorite page.

**User story #7**

- As a user, I would like to add allergens into my preferences, so that I could avoid food I have allergies to.

Status: **Completed**

The app is able to save and fetch user allergens details from local SharedPreferences. Remote storage will be implemented in future for transferring and sharing of saved preferences. The sorting algorithm will ignore allergic food during scoring process.

**User story #8, #10, #11**

- 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.
- 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.
- As a user, I would like to remove my allergen preferences, so that I can change my allergen preference if my allergen changes.

Status: **Completed**

The app is able to remove users' food preferences, including allergens, favorite food, and diet preferences. Users are able to remove a selected allergen and dietary preference by toggling off the particular allergen or dietary preference button. Users are able to remove their favorite food by swiping each food item from left to right and then pressing the delete button.

## What did not go well?

We underestimated the time to implement the core features of our Android mobile application. We did not take into account the amount of time we had to allocate for learning the platform since we were all unfamiliar with Android development. We also did not take into account that some user stories could not be implemented until certain user stories had been implemented. This delayed our app development, which caused time constraints. We ended up replacing two user stories (user stories #4 and #12) due to these constraints. The lack of time also forced us to partially complete two user stories (user stories #2 and #9). All dropped user stories did not affect the core features of the app because they were added just to improve the quality of life and ease of use for users.

### User story #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.

#### Status: **Partially Completed**

The app is able to display currently serving menus by redirecting users to Purdue official dining court page on Chrome browser. We plan to implement in-app menu screen in Sprint 2.

### User story #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.

#### Status: **Moved to future sprint**

The implemented user story #3 covers similar functionality as this user story, so we moved this story to future sprint. We also underestimated time for other user stories during the planning.

### User story #9

- As a user, I would like to choose my dietary practices from premade templates, so that I don't have to spend a lot of time building my preferences.

#### Status: **Partially Completed**

The app currently only provides one dietary template, which is vegetarian option for

users to choose. We plan to add more templates in the future.

### 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.

#### Status: **Moved to future sprint**

The functionality of this user story is temporary fulfilled by redirecting user to official Purdue dining court website on Chrome browser. We did not allocate enough time to finish this user story.

## How should you improve?

For the next sprint, we would like to improve on our coordination and planning. We underestimated the amount of time each user story took us to implement. Therefore, there were several user stories that had to be reassigned. Similarly, there were a few aspects of the project that took much less time than estimated, which led to us sometimes messily assigning other parts to be worked on. We plan to be more careful at assigning tasks. Specifically, we want to accurately estimate the amount of hours for each user story or task in order to not overwhelm ourselves with too much work. We also want to try to assign tasks according to one's expertise so that tasks get reassigned less often.

Another major issue we had was a relative lack of personal meetings. Placing greater focus on actually holding these meetings will allow us to better organize our individual work and decide what needs to get done at certain times. Meetings would also allow us to rebalance workloads better if the estimated times of implementation are off. Group coding could also help us improve compatibility of interactions between different modules.

The last issue we have is the lack of testing. We allocated too much time for implementing user stories that we did not have enough time for testing and inspection. In future sprint, we will dedicate time specifically to generate unit tests for both everyday use cases and edge cases. For UI related test cases, we will also document all usages for manual testing to ensure that all use cases have been tested.