

# Sprint 2 Retrospective

Team 23: pickyboiler

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## What went well?

In Sprint 2, we have successfully enhanced users' quality of life through offline application support and notification system. Users can now view current food menus for all dining courts when users tap on a dining court banner. Users can also tap any menu item displayed in the application to add it to their favorite food preferences. We have also improved our favorites tab by allowing users to quickly fill in their favorite food list through the use of autocomplete function; this adds a lot of utility for the user as they once had to navigate back to the favorites tab to make changes. Additionally, we have also completed the implementations for offline application support through the use of cache and the refresh functionality for on-campus dining court page. Finally, there are more options to specify a user's allergies and dietary preferences, allowing further customization of a user's profile of preferred foods.

### 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: **Completed**

Users are able to press a dining court page and be redirected to a new page. This page displays every menu item for the current selected dining court. The user can scroll through the list of dining court menu items. User's can also go back to the previous page displaying the updated list of sorted dining courts.

### 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 be matched specific dish I like.

Status: **Completed**

Users are able to tap any menu item displayed in app in order to add it to their favorites menu. Complemented by the implemented autocomplete functionality, this gives the user several options for quickly filling out their favorites menu. A user that mistakenly taps a menu item can simply dismiss the popup and continue scrolling through the loaded menu.

**User story #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.

Status: **Completed**

When typing into the provided text box the user is presented with options that lexicographically match what they are typing. The user is given a variety of options that may help them quickly fill in their favorites list with common favorites.

**User story #20**

- As a user, I would like to be able to refresh the app, so that I can get the latest dining court information.

Status: **Completed**

The app is able to refresh on-campus dining court page to display updated information. Users can swipe from top to bottom of the on-campus dining court page to refresh the app. The app will automatically refresh itself after a user reopens the app after a long period of time.

**User story #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.

Status: **Completed**

The app main functionalities is able to function properly without internet. After caching dining court details once, the app is able to maintain dining court data for all other modules to use for showing sorted dining courts and currently serving items. App also won't use outdated cache.

## What did not go well?

Several user stories that are planned out in Sprint 2 Planning Document are partially completed. Although the core functionalities of the following user stories work as intended, certain aspects of each user story still need some polishing. We have decided to finish implementing the following user stories in sprint 3. If time permits, we will also improve on current dietary practice to allow for customizable dietary preferences. Also, while improved from last sprint, our time estimates for some aspects of implementation were off, which led to some user stories taking much longer than planned, leading to somewhat rushed development at times during the sprint.

### 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 long time building my preferences.

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

Users can view the diets tab in the Food Preferences page. The diets tab contains more dietary templates for users to select. These dietary templates exist as buttons for users to tap on. Button animations are used to notify users of their dietary preferences. Users can both add and remove their dietary preferences. Users' dietary preferences are also saved even when the app is killed. Though it could be more user friendly if user can create their own diet template. This functionality will be implemented in sprint 3.

### 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: **Partially Completed**

While a good bit groundwork for implementing this functionality is in place, a in retrospect poorly planned way to implement it (and the subsequent decision to scrap the old plan of implementation in the later portion of the sprint) led to delaying completion into early in the next sprint.

### User story #13 and #14

- 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.
- 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.

Status: **Partially Completed**

Notification class and utilities are implemented but the notifications are not pushing properly. This will be completed in the next sprint as it only requires some debugging to solve the issue.

## How should you improve?

We could try to make code more modular since the specifications could change, and sections that were initially static could be changed to dynamic to accommodate for new changes and ideas. As we developed the app in this sprint, we found that static premade dietary practices might not provide the best user experience for users. To accommodate for dynamic dietary practices.

Taking more care in defining plans of implementation during the Sprint planning process may lead to more streamlined development, as some parts ended up slightly redefined during development which led to wasted productivity. Another way to improve would be to research available android functions a bit better before implementation, as on top of time constraints time was spent developing functions that ultimately could have been implemented faster by knowing of the existence certain android functions.