My proposed project is a remade version of the Yale Dining app for Android. The existing Yale Dining app has dated visuals, usability issues, and several recurring bugs. Much like the existing app, my app will display information about the locations, menu items, and nutritional info for each dining location on campus, using information retrieved from the Yale Dining API. My app will also have additional features, including the ability to filter out/highlight menu items that contain certain ingredients, allowing people with dietary restrictions to easily find out which foods they should avoid. The user will be able to specify their favorite dishes that they had that day, which will be used to notify the user when the dish is being served again, and to highlight similar dishes that the user might like. These features will most likely rely on queries to a database that stores all of the menu items for that day, along with their ingredients, nutrition info, and dietary traits. To update the menu information, the app gathers the required information from the API, and uses the information to update the locally stored database. In addition, the information displayed by the app will be prioritized based on time and location, for
example, the day’s lunch menu will be shown if it is close to lunchtime, and the
dining halls that are the closest to the user’s location will be shown first.

My plan is to first create a mockup of my app’s UI, then work on building the app,
starting with the core functionality of retrieving data from the API, storing it in a
database, and displaying the current menus. After that, I will work on building the
app’s additional features.