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CS 307: Project Charter
"PickyBoiler"

Problem Statements

1. Picking which dining court to eat is a tedious and a cumbersome daily task that shouldn't require our time and attention. There are 6 dining courts each with dozens of dishes to choose from.
2. Those with special dietary practices (vegetarian, calorie-conscious, religious restrictions, allergies, etc.) would need to spend time looking at ingredients from each dish to determine whether or not they are able to consume it.
3. Students and visitors may have trouble finding a restaurant nearby that they may like when the dining courts are closed.
4. Students may not know all the places where they can spend their dining dollars at. This can potentially lead to wasted dining dollars.

Living in a university with highly-rated dining courts can make you feel comfortable and relaxed after a tiring school day. However, being presented with a plethora of choices of excellent menus from various dining courts can make you feel overwhelmed. We, the development team, are facing this problem daily. We couldn't find any mobile applications or services that help us decide on which dining courts we should go to each day. Thus, we will develop a mobile app that provides a solution to our mundane task of choosing the right dining court to dine at.

Off-campus restaurants lack the tendency to attract customers with meal plans. Due to this reason, this app could be beneficial for these restaurants; the app could give local restaurants more exposure to students who are on meal plans.

Project Objectives

- Build a mobile app that ranks Purdue dining courts based on users' preferences.
- Show food menus for each dining court.
- Show the nutritional value and allergies details for each dish that appears in the food menus.
- Allow users to save and record their food preferences such as customizing their nutritional needs and other information related to user's diet or allergies.
- Send notifications to users when their favorite dishes are being served.
- Recommend off-campus restaurants and provide locations of places where dining dollars can be used to get food when none of the dining courts are open.

Stakeholders

1. Users: Purdue University students, visitors, or anyone who are interested in dining at Purdue dining courts.
2. Customers: Purdue Dining Court, Off campus restaurants who want to promote their businesses to students who are on meal plans.
3. Developers: Corey Combs, Jackson Sorrells, Siravit Tichachol, Wonwin Viwathpongpan
4. Project Owners: Corey Combs, Jackson Sorrells, Siravit Tichachol, Wonwin Viwathpongpan
5. Project Manager: Mohammad Haseeb

Deliverables

- An Android mobile app that allows user to input dietary preferences and match users with their best fitted dining court as well as showing off-campus alternative restaurants (sponsors).
- Backend server is not needed because dining menu is locally dynamically requested each time user opens the app using Purdue dining court API, and user preferences are encrypted and stored locally for privacy purposes. We will also be using Google maps to locate the users and nearby dining courts and restaurants.