PUrfect Dining

TEAM 23: Project Charter

Team Members: Aashir Aumir, Arjun Srinivasan, Eric Baeza, Kailasam Sriram, Tung Dao

Problem Statement:

Currently, Purdue doesn't have a system for students, faculty, and the general public to rate their experience at dining courts, or to make informed decisions about where they wish to dine on campus based on real-time statistics of other users' dining experiences. Additionally, dining courts are also unaware of their customers' opinions about their experience; they can use this data to improve their services and food in the future. PUrfect Dining gives users the ability to rate their dining experience at a specific dining court after they complete their meal, and the opportunity to provide insightful comments to help dining courts improve their service. While there are other applications, like Yelp or Zomato, that allow users to rate their dining experiences at different restaurants, none of these services focus solely on the dining courts on Purdue's campus. PUrfect Dining is also unique in the manner that it gives users 3 choices, in the form of buttons, while exiting a dining court to rate their experience: Excellent, Satisfactory, or Poor. This provides a platform for diners to effortlessly record their experiences; making data collection easier and more efficient.

Project Objectives:

1. Create a 3-button system for people to effortlessly rate their experience at dining courts on campus. If PUrfect Dining proves to be successful in dining courts, it can further be implemented in various locations on campus such as: restaurants, club meetings, campus events, etc.
2. Create a website and an Android app for users to view real-time and historic rating statistics and reviews.
3. Provide a commenting system for users to further elaborate on their ratings. This provides details to other diners' which may not be intuitive from rating statistics. Dining courts can utilise the constructive criticism provide to improve their services and quality of food in the future.
4. Generate and provide statistics and trends in the form of graphs/charts about dining court ratings which will enable users to make informed decisions.
5. Develop a system to use the history of ratings to display statistical trends over various periods of time such as over a semester, over the past year, etc.

Stakeholders:

1. Project Owners: Aashir Aumir, Arjun Srinivasan, Eric Baeza, Kailasam Sriram, Tung Dao
2. Users: Purdue students, faculty, or staff, who want to view and provide real-time ratings and reviews to help aid users' decisions about whether they would like to visit a dining

court.PUrfect Dining could potentially be extended to restaurants and other organizations on Purdue's campus seeking to improve the quality of their events, environment, food, service, etc.

3. Project Coordinator (Manager): Mohammad Haseeb
4. Developers: Aashir Aumir, Arjun Srinivasan, Eric Baeza, Kailasam Sriram, Tung Dao

Project Deliverables:

1. Bootstrap and jQuery libraries for front-end, to create a responsive website that shows real-time statistical data of the users' ratings for a specific dining court.
2. NodeJS for backend to assist in handling all server communications.
3. MySQL or MongoDB database for managing and storing user data, statistics, trends, etc.
4. Raspberry Pi and other hardware components such as buttons, internet module, etc. to build a 3-button hardware rating system that asks the users to choose from Excellent, Satisfactory, or Poor.
5. Develop an Android app to complement the website for mobile users using RX-Android for reactive programming and the MVP framework for better structured and easier to test code. Providing users with push notifications for trending dining courts all while following Material Design guidelines for a modern and responsive UI.
6. Backendless platform (MBaaS), which supports website hosting and a scalable relational database, as a backend tool for the website as well as the Android application.