

SOFTWARE PROJECT MANAGEMENT LAB 2

SOFE 3490U

Team Name: OW

Sunil Tumkur 100620430

Eric Tsim 100560172

Harshwardhan Goswami 100654736

Topic Selection & Reasoning

The topic that we selected is the iPad restaurant application. We chose this topic because the world continues to develop new technologies to progress towards the future and we believe it's time the menu system progressed as well. With the recent expansions in the tech-industry, it is necessary to change the menu system from conventional paper to an online menu system. This application would help customers when they dine in and with ordering meals since it's easier to access, view and further enhances their experience. On the application, we will have pictures of the food, along with a description, the ratings, and the price. At the end of the day, a fully functioning tablet restaurant application that is customer friendly and delivers a great experience would be very successful for the restaurant as well as for us software developers.

Project Objectives

The objective of this application is to improve the overall customer experience. We plan on doing this by implementing an online menu and payment system where customers can choose to see the details of each food item as well as it's picture using an iPad. Customers are often uncertain of what to order due to their lack of knowledge of the restaurant's food selection and specialties. We see this issue as more of a communication issue from the restaurant side than a customer issue as the restaurant should make the restaurant experience as smooth as possible for the customer. One of our ideas to improve their experience would be to provide images and general knowledge for each item on the menu. To make the menu shorter, we decided to have this information in a dropdown menu with each item so users can view the food item they're interested in.

Projects Measure of Success

- The customers are given a survey after their meal in regards to the experience at the restaurant. Upon completion, customers are given a discount for their next meal.
- By judging stakeholder requirements and analyzing their incorporation in the final release of the application.

- We can measure success by analyzing the restaurant's annual cash-flow after the iPad implementation and judge the success of the restaurant based on the difference between the current cash-flow and previous cash-flows.
- We evaluate the accuracy of our database by comparing the database entries at certain time-intervals with the orders that took place at those time-intervals.
- By comparing our iPad restaurant technology with services and technologies provided by other companies we can ensure our services are up to date with the current tech-industry meta

Infrastructure

Software

- An IDE to develop the application for IOS and Android
- Node.js for the back-end of the application
- Use Socket.io for real-time communication between client and server, for making orders
- Use a local cloud server (ex: Google Cloud) and database (phpMyAdmin) so that each tablet can receive changes updates to the menu

Hardware:

- A tablet which can be an iPad, or MicroSoft Surface (includes charging wires, dock, case, and screen protector)
- For making payments, it will still be the traditional credit machine