Software Project Management

Lab 2

Group Members:

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https://github.com/orgs/SPM-OT/teams/group-010

Selected Project

iPad Restaurant Application

Introduction

- The main reason why our group chose this project is that nowadays the restaurant applications we used such as Skipthedishes and Ubereats are not so convenient. These applications always have some problems and need to be improved. For example, the customer can not check the food's high-definition photo when they order online, the customer can make an order even if the restaurant is closed, the dish is out of stock but the customer can still order it and so on. Compared to other restaurant applications, our group's application can improve these shortcomings and add some new convenient functions.

Project Objectives

- The iPad application should establish communication with the restaurant's POS system. So the orders can be sent directly to the POS system.
- The iPad application should keep track of all of the orders made by the table. Customer can choose to see the total price of all the orders made
- All the menu items can be searched and sorted by price, category. Food items should have pictures, descriptions.
- The app can switch menu items to different languages and the price can be converted for different types of currencies based on customer's preferences.
- A rating function needs to be built in the app for all food items, the customer and restaurant worker will be able to leave or see the reviews of all the food items.

- Two levels of access need to be created for the app. An employee level with the functions to modify menu items, pictures, description and an customer level without these functions.
- Menu item descriptions and item price can be read out to the customers.
- The application can be downloaded to any Ipad to make reservations for the restaurant and order take outs or deliveries.
- The application can process customer payments by credit cards.

Project Measures of Success

- The system uses a database for the menu. This contains pictures and provides descriptions on the food items in different languages as well as ratings from past customers, which proved to upscale food sales by 70% for the year.
- System potential failures are tested to be low, which shows that the application should be running without crashing for 364/365 days in a year. However, with such minimal tendencies for a crash, the system faces only a potential crash for less than a day.
- The system processes orders in a faster and more organized manner, thus reducing the number of returned and incorrectly processed orders by 80%.
- Funds provided by investors for the project were sufficient.
- Reviews show 90% of users voted the system was easy to use and navigate during testing phase.
- System provided hotel and restaurants with excellent room service allocation, this helps orders to be taken to right rooms and tables.

Project Infrastructure

- Our application will need a high efficient Global Position System in order to keep track of delivery drivers. By doing this can save waiting time for both deliver drivers and customers.
- An Ipad for system and function testing.
- A cloud server used to save the restaurant's database.
- A barcode reader to process coupons used by customers.