Software Project Management

Lab 2

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iPad Restaurant Application

Topic Description

We chose this topic since most restaurants use the conventional paper menu. The conventional paper menu limits the extent of how much detail can be displayed about the restaurant and their meals. For example, they are limited to how many pictures they can show on the menu due to space. Additionally, by relying on the waiter/waitress to take the order, this may, in certain situations, result in noting down the wrong items or forgetting certain items ordered. This will lead to unhappy customers and decreased business. With an electronic iPad Restaurant application, the majority of the problems faced by the conventional paper menu will be mitigated as it is brought up to current day technological standards.

Key Objectives

- To create a simple system that is easily learned and maintained for long term use.
- Simplify the organization and management of restaurant details, and the environment.
- To create and enhance the restrictions/ discipline of what can be done with the system, and its overall functions are intended to do, to an extent.
- To showcase the efficiency of the overall system in real-world situations.
- For the overall system to respond quickly, as well as correctly, towards actions taken by the user.

Measure Of Success

The points listed below show the strategy adopted to measure success and achieve the objectives:

- Tutorials are included in the program so that users can learn and be trained easily.

- Customers will be asked to leave a quick review along the lines of “How was your ordering experience” where they can make a rating between 1-5 with a quick single tap.
- A backup system will be synchronized with all devices in use. In case the system goes down, all sales, orders, and data can thus easily be recovered.
- Every 3 months, waiters will be prompted to provide a list of difficulties that they have while using the app and suggestions on how they can be solved. Furthermore, they will also be able to request new functions in the app and the app will be updated accordingly.
- If used in a franchise, the app can put all the devices allocated to that franchise under the same network so they can share data about bookings, space available, sales, orders and so on. In the end, all the data can be combined and plotted in a graph to measure the overall performance of the restaurants. Furthermore, the system will also collect data on latency, crashes, and complaints and produce a final report which will be used to troubleshoot problems.
- The devices and other technologies involved in the system will regularly be updated to the newest version to improve the efficiency of the system and customer satisfaction.

Required Infrastructure

Hardware	Software
● Mac Computers for iOS development (Swift programming language) ● Apple iPad’s ● Servers to store restaurant data	● Xcode ● Cloud Integration ● Database