

Software Project Management

Lab 2

iPad Restaurant Application

Group Members:

Preet Khasakia 100653168

Naweed Adel 100660467

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QUESTION 1.

A description of why you chose your topic, which can include an introduction to the topic's idea, the problems your topic is tackling and what you hope to accomplish with it.

Answer: We have decided to choose the iPad restaurant application because it aims to replace conventional menu styles to a modernized customer friendly menu. This project is a great opportunity since there is a tremendous rise in technology. For places such as restaurants where certain customers find it difficult and time-consuming to order their meal, implementing this application and providing customers with an efficient menu allows for a good upgrade for the franchise and pertains better customer satisfaction. It will give customers pictures of the item, a brief description, ratings by previous customers and the price of the item. As software engineers, we hope to accomplish a fully functioning restaurant application that is user friendly, easy to use and provides success to the restaurant.

QUESTION 2.

Clearly outline your project's objectives. Some objectives may seem generic, but you must also include objectives that are relevant to what your project is doing. Examples include:

Answer:

- To improve the customer's experience by providing crucial information such as a picture of the food, a brief description, a rating, and the price.
- Remove lines by having waiters respond to when the customer finishes their order.
- Provide additional assistance to customers unaware of the food or customers that aren't familiar with the language.
- iPad is more flexible than a menu, since customers can scroll through all the items, instead of having to read through long pages.
- Organize the menu, food items can easily be categorized for customers.
- Improve reputation by utilizing iPad instead of traditional menu.
- iPad can also include ads while customers view items for additional income and publicity.
- Receive feedback through the iPad to improve services.
- Reduce stress of waiters by relieving the need to memorize or write down orders.
- Conduct payment through iPad to further increase efficiency. Restaurant/waiters would receive notification of when payment is processed to ensure security.

QUESTION 3.

Outline your project's measures of success. How would you say that your objectives are being met? An example can be:

a. The system contains a functional database that keeps track of artists' records that achieves the required data organization.

Something simpler can be:

b. Projects' costs did not exceed money provided by the investors' contract. Thinking of practical ways your objectives are actually met is key to writing your measures of success. A minimum of 5 measures of success is required.

Answer:

- Ensure that the test cases from stakeholders are met prior to the release of the application.
- Have an initial project planner for a working schedule of the project. To measure the success rate, track the actual performance of the project and compare it to the initial schedule by calculating the difference. This will show a result of how successfully or poorly the project is working at.
- Allow customers to engage in a survey after their visit to the restaurant on their feedback towards the application and other services.
- Similar to the project planner, apply an initial base case of the budget. Measure the actual spending invested in the project and through comparison, it will be determined whether the budget is overspent or underspent.
- Compare and analyze services used by other companies or franchises, and evaluate the outcome to ensure if the project meets the in-demand market value or if additional changes are required to obtain further success.

QUESTION 4.

Finally, state the infrastructure, be it hardware or software, you'll need for your project. An example of that can be: "Cloud server to store the artists' database." Include at least 4 points. You do not need to go into specifics (e.g. the exact kind of sensor you will need to use), just what you'll generally need (e.g. a sensor to measure heart rate for a health monitoring system)

Answer:

- Hardware for the iPad itself
- Software for the application to run smoothly
- Local server that can access each iPad to easily implement changes to all devices instantly instead of changing each one individually.
- iPad uses local wifi of restaurant and is protected to ensure stable connection and prevent unnecessary traffic from customers.
- A payment system implemented to make transfers through iPad or a separate device that is virtually linked with the iPad; If the customer desires, normal payment would still be an option.
- Hardware for maintaining the iPad to ensure its condition does not deteriorate quickly (such as charging dock, case, screen protector).