



# **Universidad de las Fuerza Armadas – “ESPE”**

**Departament: Computer Science**

**Course: OOP**

**NRC: 7996**

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## **Problem**

We need a program that allows the user to see the menu of the local "Los mega apanados de la ESPE", can place their order and complete the purchase with a bank card or with cash, and at the end of the purchase a certificate should be printed. receipt where the name of the user, the order number and if the payment was made.

To understand what the program really needs, we must put ourselves as a consumer of the restaurant to know about the ordering process.

## **Overview**

In the field of fast food restaurants, the way in which the customer can place his order as soon as possible is a differentiating point between other places that offer the same product, other aspects are the quality and price of said food, a A more interactive and user-friendly menu that fits in with the new technological advances could help the growth of the local "Los mega apanados de la ESPE".

## **Background**

"Los mega Apanados de la ESPE" is a local that has gained recognition in recent years for its excellent seasoning and gastronomic skills, being located at the head of the University of the Armed Forces ESPE, several members of the educational institution, both students and professionals see it as an alternative to eat there. This place offers several dishes of food from simple, only drinks, extras, to main course that offer to satisfy your appetite when trying it. In the same way, this business began empirically, like any other restaurant, in a simple way and without technological help, with the work of several employees who seek to offer a good service to their customers, as their cooks, cashiers, waiters, among others.

Currently, we know the importance of having technology as a support method, because the roles that each employee fulfills are necessary, however, it would be much easier if the roles of waiters and cashiers are optimized using electronic applications. An example of this, are purchasing systems that may exist in a local, but in this case, we focus on a restaurant. Thus, the customer would have a much more satisfying experience if he can visualize the menu with an application, see the description of each dish, select what it requires, pay with his favorite payment method and serve his product that is added of a quality service.

Consider that there are many people who avoid entering restaurants for "shame", shyness, or more emotions to ask about each specification of a dish, adding that the stress of the moment, it can cause a bad attention from the employees of Mega Apanados towards consumers, which can even be a loss for "ESPE Mega Apanados".

For this reason, it is taken into account that the customer is looking for a quality experience, satisfactory and not only in their food, also in the service provided, taking into account the actions of the display of the Menu Apanados; Create your personalized purchase, make the payment, and finally according to your payment method, determine if a customer registration is needed.

## **Analyst Comparison**

The mentioned program is destined to perform as a digital menu for the Mega Aplanados Restaurant. The first class is "ApanadoMenu", the system will be divided in three subcategories: Combos, Promo's, Drinks; where clients be able to visualize the existing products of the day and select the chosen ones.

The class "ApanadoOrder" is the next to be in action, the select items will be add to it and be previewed; the customer also can delate them, if change their mind. When the customer is done with their order, they'll confirm it so we can pass to the next step, "ApanadoCustomer".

In the mentioned class, the customer has to enter their personal information, such as name and last name, ID and address.

Ultimately, the client needs to proceed with the "Payment"; if it's in cash, the order will be sent to the cashier and it can be pay there, in the other hand, if the form of payment is credit or debit card, the customer will have to enter their card information and validate the purchase. In any case, after the confirmation of the payment, the process will be completed.