Wollo University

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Mobile Application Development

Lounge Food Order Application

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Problem of statements

KIoT students often face challenges when it comes to accessing food within the campus, as they may have limited time to visit the student lounge or face long waiting times during peak hours. Additionally, the traditional process of ordering food may be cumbersome and inconvenient, as students may have to physically visit the lounge and wait in line to place their orders. To address these challenges, there is a need for a food ordering that enables students to easily order their preferred meals from the student lounge

Significant of project

The KIoT Student Lounge Food Order App has several significant benefits, including:
Convenience: The app provides a convenient way for students to access food within the university campus, eliminating the need for students to physically visit the student lounge and wait in line to place their orders.
Time-saving: The app saves time for students by allowing them to order food from their mobile devices, reducing waiting times, and allowing them to focus on other activities.
Enhanced student experience: The app enhances the overall student experience by providing a user-friendly platform for ordering food, reducing waiting times.
Revenue generation: The app can potentially generate additional revenue for the student lounge by providing an additional channel for students to order food, increasing the number of orders and sales.

Functional requirements

Some functional requirements for the KIoT Student Lounge Food Order App:

User Registration and Authentication:

The app should allow users to register and create an account using their email address the app should implement secure authentication to ensure that only authorized users can access the app.

Homepage(menu):

The app should have a menu that displays the food options available for ordering. The menu should have categories and subcategories to make it easy for users to navigate and find their preferred food items. Each food item should have a description, price, and an image.

Profile Page: This page will allow users to view and update their profile information such as name, email address.

Cart Page: This page will allow users to add and remove items from their cart, and view the total price of their order. The app should enable users to place orders by selecting their preferred food items and adding them to the cart.

My Orders Page: This page will allow users to view their past orders, along with details such as the date, items ordered, and total price.

Favorite Page: This page will allow users to save their favorite menu items for future orders.

Logout Page: This page will allow users to log out of the app and end their current session.

Admin Dashboard:
Admin Page: This page will allow administrators to view all user orders, including details such as the date, items ordered, and total price. This will help the administrator manage orders and keep track of inventory.

The app should have an admin dashboard that allows lounge staff to manage orders.
The admin dashboard should provide features for managing orders.

User Orders page: This page is part of the admin page and allows administrators to view all user orders, including the date of the order, the items ordered, and the total cost of the order. Administrators can also mark orders as fulfilled or cancelled.

Non-functional requirements

Sure, here are some non-functional requirements for the KIoT Student Lounge Food Order App:

Performance:
The app should load quickly and respond to user actions in a timely manner. The app should have minimal downtime and be able to handle high traffic volumes during peak usage hours.
Security:
The app should implement security features such as secure authentication, and secure payment processing to protect user privacy and prevent unauthorized access.
Usability and User Experience:
The app should be easy to use and have an intuitive user interface that allows users to quickly navigate and complete their tasks.The app should have a visually appealing design and be consistent with the branding of the student lounge.
Compatibility:
The app should be compatible with a variety of mobile devices and operating systems, including both older and newer devices and platforms. The app should be tested on different screen sizes and resolutions to ensure that it displays correctly on various devices.
Reliability:
The app should be reliable and free from bugs and errors that could cause crashes or other malfunctions.
Scalability:
The app should be designed to handle increasing numbers of users and transactions as the user base grows. The app should be able to accommodate future updates and feature additions without significant performance issues

My suggestion

This food delivery apps can provide based on a user's location, order history, and availability at nearby lounge. This app may also offer popular dishes, daily specials. Intuitive user interface: The app should have an intuitive and user-friendly interface that makes it easy for users to navigate through the app and place their orders.Personalization: Users should be able to personalize their profile, order history, and favorites list to enhance their overall experience on the app.

Conclusion

Using this application, the end users register online, read the E-menu card and select the food from the e-menu card to order food online. Once the customer selects the required food item the chef will be able to see the results on the screen and start processing the food. This application nullifies the need of a waiter or reduces the workload of the waiter. The advantage is that in a crowded lounge there will be chances that the waiters are overloaded with orders and they are unable to meet the requirements of the customer in a satisfactory manner. Therefore by using this application, the users can directly place the order for food online.