International Journal of Innovative Research in Engineering
Volume 4, Issue 2 (March-April 2023), PP: 558-560.
www.theijire.com ***ISSN No: 2582-8746***

Fastesy Instant Delivery Application

Krushna Madane[1], Kalpesh Bayas[2], Ganesh Machpalle[3], Shubham Pal[4]
[1 ,2,3,4] *Information Technology, JSPMS's Jayawantrao Sawant College of Engineering, India.*

How to cite this paper:
Krushna Madane[1], Kalpesh Bayas[2], Ganesh Machpalle[3], Shubham Pal[4], "Fast Esy Instant Delivery Application", IJIRE-V4I02-558-560.

https://www.doi.org/10.59256/ijire.2023040225

Abstract: *Android app development can help a firm reach out to new customers, increase revenue, and generate a following of devoted clients. The project's goal is to create a single app that offers a variety of services to the user. It will partner with other retailers. For all products offered in the app, there won't be any involvement from a third party seller in the process. Customers will have direct access to the goods manufacturers. As a result, the end user will find the solution to be affordable. The main goal of this project is to provide the user with a straightforward yet effective solution that will enable them to quickly and effectively meet their demands with the best product the manufacturer has to offer.*

I.INTRODUCTION

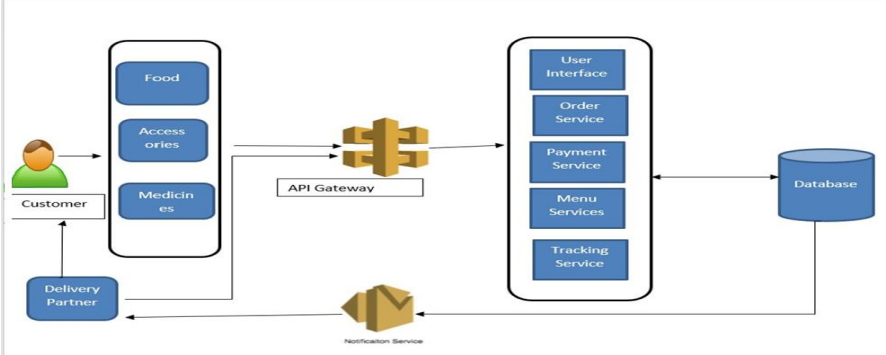
India is one of the world's biggest centres for marketing. In India, both production and consumption have increased dramatically over the last few decades, making it crucial that we give customers the greatest experience possible. People often find it challenging and tiresome to find the goods they want to purchase when they go shopping. We are providing the Fast Esy Instant Delivery software application, which may successfully serve the purpose of assisting the customer.

India is one of the world's biggest centres for marketing. In India, both production and consumption have increased dramatically over the last few decades, making it crucial that we give customers the greatest experience possible. People often find it challenging and tiresome to find the goods they want to purchase when they go shopping. We are providing the Fast Esy Instant Delivery software application, which may successfully serve the purpose of assisting the customer.

The purpose of this application is to offer customers the best experience possible by creating a delivery system for a variety of goods, such as electronic accessories, groceries, food, and medicine. A purchased good will be delivered directly to the customer from the manufacturer, saving both time and money for the end user. More comfort and a better user interface are provided. A search engine that offers users a simple and practical approach to look for things that meet their needs. The user can further filter the list based on numerous criteria when the search engine lists a collection of products based on the search word. A user has access to the product's full specification, as well as a number of photographs, customer reviews, and the option to submit their own reviews. The application will include a variety of layouts and layers that are simple to use, which will improve users' shopping experiences. Mobile technology. Users of the programme can shop and conduct transactions quickly and easily while on the go.A range of functions, including user authentication, product browsing and search, a shopping cart, a checkout procedure, and integration with a secure single interface are often included in the programme. Without having to deal with outside merchants, the payment gateway.

II.SYSTEM DESIGN

User end, database, notification center, APIs, and delivery partner make up the proposed system. Through the API Gateway, which links the user with the system servers, the user can place orders for items such as food, medication, electronic accessories, and more.



System Architecture

Database: A database in an e-commerce application acts as a central location for organising and storing information about products, orders, customers, and other crucial details.

API: An API (Application Programming Interface) gateway acts as the focal point in an e-commerce application for controlling and routing traffic amongst the numerous micro services that make up the application.
Notification centre: A notification centre is a feature that enables users of an e-commerce application to get alerts or messages about various activities and events that are pertinent to their interactions with the service.

III. OVERVIEW

Companies are able to undertake online sales of products and services thanks to a piece of software called an "e-commerce application." Frequently featured features include shopping carts, payment processing, order fulfilment, and product catalogues. Some common examples of e-commerce applications include online marketplaces like Amazon and eBay and online retailers like Walmart and Target.
The following are a list of an application's fundamental components:

1) User Interface: The section of an online store's front end where clients may browse and make purchases. Frequently, this is a website or mobile app that allows customers to browse products, add items to their cart, and complete a transaction.
2) Product Cat Log: A list of products available for purchase, each having its own name, description, price, and images.
3) Shopping Cart: The shopping cart is a virtual holding area where customers may add items and keep track of their purchases. Before finishing the checkout process, users can inspect the goods in their shopping basket, change the quantity, and remove items.
4) Payment Interface: A system that oversees the secure processing of payments made with credit cards or other means is known as payment processing.
5) Order Fulfilment: A system that manages the order fulfilment procedure, which includes taking care of payments, packing, and shipping.
6) User Account Management: In order to make a purchase using an e-commerce platform, users often need to create an account. User registration, login, password recovery, and profile management are just a few of the capabilities included in user account management.

IV. EXISTING SYSTEM

RFID readers and tags would be used in an e-commerce application to track and manage merchandise both inside outside of stores. A tag that is connected to an item and a reader that can be used to track the location and movement of the tagged item communicate with one another via radio waves in RFID technology.

Poor decision-making in an e-commerce application would probably have a number of detrimental effects on the company and its clients. Poor pricing and product selection decisions, for instance, could result in a lack of interest from customers and low sales. Ineffective marketing and promotion choices could also prevent potential customers from being reached and engaged in a meaningful way.

In existing system the backend functionality is not provides. Because of that you might not be able to easily manage and control the functionality and content of your project without a backend as an admin. Due to this, it could be challenging to add new features, alter current material, or react to user input.

Users may become frustrated and have a bad user experience if they find it difficult to utilise the application and finish tasks due to a complex UI. Users can have trouble locating the tools or data they require, which could result in a greater bounce rate or user abandonment.

More processing power and resources may be needed by a complicated user interface, which would result in poorer performance and longer load times. Higher bounce rates or user abandonment may also result from this, since users may grow impatient with slow or unresponsive applications.

V.OVERCOME OF EXISTING SYSTEM DRAWBACK

Existing System's Drawbacks	**Alternatives to overcome the Drawbacks**
Implementation of RFID is complex and costly	Implementing QR code can reduce the scanning time. And makes it more reliable and simple
Poor decision making	By using gradient mining algorithm you can improve decision making
Complex and not well optimized UI design	Implementation of Recycler View makes it simple and efficient.
Product list is not efficiently implemented	Categorizing the products can make it easy for users to find what they are looking for. For example, create categories such as electronics, clothing, shoes, home decor, and so on.
Difficulty in delivering the product at remote location on time	Choosing a reliable shipping carrier that has experience delivering to remote locations and has a track record of timely deliveries.

It does not provide any backend functionality that can be managed by admin	Admin module is implemented to manage and keep track of the overall functionalities of application
Offers and discounts on products are not provided	Seasonal offers and discounts on products are provides in this application

VI. PROPOSED SYSTEM

Customers would enjoy a more tailored and effective buying experience from an e-commerce application that makes better use of geo location services and categorization algorithms.

Numerous product options: This application will enable users to order several product types from a single application. As a result, users don't need to have multiple applications to place orders.

Customized Product Suggestions: In order to provide individualised product recommendations, classification algorithms can be employed to examine client data such as browsing and purchasing patterns and preference information.

Shop wise Ordering: This function enables users to order goods from their preferred retailers. The programme allows store owners to add their stores along with a list of their products, prices, and other information.

Rent Shopping: This is a new function that is provides in this application that enables users to order things on rent rather than buy them. The rent for that consumer is due along with the days they are purchasing.

Simple and Friendly UI Design: Users should be able to locate what they're seeking for fast and simply thanks to a simple and user-friendly UI design. High-quality pictures and videos are used to highlight the products in a straightforward, tidy layout. Ensure that they are optimised for all devices and that they load quickly.

Reviews and comments: Give users the option to leave reviews and ratings. In addition to assisting users in making wise selections, this offers insightful information for UI improvement**.**

VII. CONCLUSION

This application is delivering multiple services on a single platform in the proposed system. We are able to easily incorporate technologies into one's lifestyle in today's technologically advanced world and improve customer experience. The way that organisations run is changing dramatically as a result of digital transformation. One of the most popular operating systems in use today is Android. It is fundamentally altering how the technological sector functions. By acting as a virtual assistant, an android based application can successfully serve the objective of assisting clients in shopping. The ease of the user was taken into consideration when developing this application. Customers can order meals, accessories, and medications from any location. The product will also be delivered to the supplied address in remote areas. A lot of individuals will benefit greatly from this program, which will save them time.

References

[1] *Rajesh Kannan Megalingam, Souraj Vishnu, Swathi Sekhar, Vishnu Sasikumar, Sreekumar S. and Thejus R. Nair "Design and Implementation of an Android Application for Smart Shopping [IEEE2019]".*

[2] *Yi Liu, Chuanchang Beijing University of Posts and Telecommunications Beijing, China "The Diversity Layout of Ecommerce Applications Based on Android [IEEE-2018]".*

[3] *Hemant Kumar, Muskan Jain, Manpreet Singh Bajwa Faculty of Engineering and Technology, SGT University, Gurugram, India. "Online Food Delivery App 'Foodie [JUSST2021]".*

[4] *M. Gupta, "A study on impact of online food delivery app on restaurant business special reference to zomato and swiggy", International Journal of Research and Analytical Reviews, vol. 6,no 1, 2019, pp 889-893. [5] S. Jadhav, "Food ordering mobile applications – a new wave in food entrepreneurship", International Journal of Innovative Technology and Exploring Engineering, vol 8, 2018, pp. 302-305.*

[5] *C. Reddy, and G. Aradhya, "Driving Forces for the Success of Food Ordering and Delivery Apps: A Descriptive Study", International Journal of Engineering and Management Research, 10, 2020*