



# MANGAL DAIRY APP: AN ONLINE DAIRY-ORDERING APP

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**Abstract:** In everyday life, dairy products play an important role in every human life such as milk, curd, paneer, etc. The app acts as a medium between the user and the dairy shop in the purchase of dairy products. In this thesis, we will build an app whose motive is online ordering for customers who want dairy products. Our name of the app is "MANGAL DAIRY APP". We will showcase customer preferences for ordering. Many users can rate products on our app so that other users can get a general idea about the quality of products displayed. For billing purposes, we have linked multiple online payment platforms as well as cash on delivery for the convenience of users.

To increase the popularity of the app we are giving user-friendly background. This app is based on a single- dairy based shop where this app is custom-made for the specified shop.

In this research paper, there will be a brief review of the app we have made. In this, we will talk about technologies used while making an app. You will be able to get a general idea according to the online ordering system created.

**Index Terms - Online Ordering System, Dairy Delivery App, Mangal Dairy App, Android App, One-Time Password**

## I. INTRODUCTION

With the growth of human beings, they have been through countless inventions and discoveries. There were many products that were discovered by humans for daily purposes. One such category of products is dairy products.

Initially, the dairy products are processed in their respective factories, then packaged and supplied to retail shops from where customers can purchase which can affect some customers such as disabled, sick, or any other occurrence.

Hence, with the advent of technology, people come up with the concept of online ordering where a person only has to need a basic internet connection and can order food through its website or an app.

In this research paper, we are going to talk about an app with similar ideas for online ordering. The products in this app are based on dairy products.

At the start of the app, there will be a registration page that will allow users to log in. An OTP will be prompted so that we can confirm the accuracy of the information. After confirmation, the login page will allow the user to the app's main page where a row of products will be displayed according to their categories. A user can select the desired product from the list. After selecting the products, the user will reach the cart option where selected products are enlisted with their marked price as well as daily discounts. After processing all formalities user will be allowed to reach the payment option, where the user can pay for the placed order by paying online or cash on delivery. The order will be placed and the screen will show the amount of time required to deliver an order from the shop side.

Many similar types of apps in the market run on these principles like Swiggy, Zomato, Food Panda, and many more.

## II. OBJECTIVE

This research paper aims to discuss principles and technologies used in the online ordering system. Here, we will be highlighting the advantages of this system.

We will be discussing how this model affects the employment rate for people as well as how this system affects the business world. We are going to discuss our app which is the "MANGAL DAIRY APP". The app provides the facility for buying products online. The main motive behind this software is to combine the traditional selling method with the online selling method. Another reason for developing this application is to reach more customers while increasing the sales rate for a company. We are using the Android operating system as it is a widely used operating system all around the world. It is an open-source and freeware operating system.

### III. ADVANTAGES

- It saves time as user will not have to visit shop personally to purchase.
- The app is allowed to work for 24/7 where the user can book the time for delivery.
- It is embedded with multiple payment methods such as cash on delivery, credit card, or online payment method.
- Customers can track their orders so that they can get live updates on their products.
- It can also reduce costs as they can get discounts on their products on a regular basis.

### IV. TYPES OF SYSTEMS IN APP

#### 4.1 Registration System

New Users can Register themselves in the app through this system. In this system, the user will be asked about some of the basic details about itself. The details can be the user's name, Email, etc. After filling in the information user will be transferred to the home page of the app.

#### 4.2 Login System

Existing users can log in to their IDs through this panel. It will ask about your Email ID and password to login into the app. After login, the user will be transferred to the home page of the app.

#### 4.3 Cart System

Selected products will be shown here. It will generate automatic billing where the price of products with taxes will be calculated. The user will have to click on the downward option to move forward where it will be forwarded to the payment system.

#### 4.4 Payment System

It allows the user to pay for the amount mentioned in the bill. The user can pay the bill through an online or offline medium. It contains online mode payment such as Google Pay, Paytm, etc. as well as offline mode payment such as cash on delivery.

### V. TECHNOLOGY USED

<b>MANGAL DAIRY APP</b>	
<b>Software Used</b>	Android Studio
<b>Programming Language</b>	JAVA

The technology used in the completion of this app is Android Studio with the core development Language JAVA.

#### 5.1 Android Studio

Android Studio is used to develop apps. In this app, Android Studio is used because it contains many functions which helped in the development of our app. There were many functions such as Image View, Text View, Design View, etc. Android Studio helps in the management and development of our app. The software was easy to use with additional hints in every line of code. Android Studio provides different Versions of Screens to run the app which helps in testing our app. The availability of a Virtual Screen helps the programmer to test the app on different Versions of the Screen. There are two types of main windows in Android Studio namely MainActivity.java and Activity.xml.

#### 5.2 JAVA

As a Core Language is used in Mangal Dairy App. It is a language that is versatile and can be used on any platform. This is one of the main reasons why JAVA is popular among programmers. It is based on Object Oriented Programming.

### VI. FEATURES IN APP

- Ordering- The user can Place orders for available Dairy Products.
- Online Payment- The user can Pay the bill Online.
- Time-Saving- The user only has to Place an Order and the order will bring the delivery boy from the store.
- App is given user-friendly background so that Users can understand the app in a simple way.
- For security purpose user needs to provide a mobile number that will generate an OTP and if the OTP is correct it will change to the next screen otherwise it will show an error.
- Each transaction is recorded in My History which helps to keep a check of every transaction in an app for a user.

## VII. RESULTS AND DISCUSSION

In this research paper, we made an app that outlines the digitalization of the technological world. It transcends the traditional method of buying and selling with the help of technology. We have created a system which can buy products from shops by placing an order. The placed order is then delivered to the allocated destination.

With the help of programming language, we were able to create a system in which we provide the facility to users to order from the store. The programming language used in the app is JAVA with the software in which it is built is Android Studio. With the help of this, we were able to achieve a finished product that can be launched live on Google. Nowadays as everything is going in online mode, we were able to create an online atmosphere where we can provide dairy products in one click. It saves time as well as the user does not have to worry about getting milk products after their booking online. The booked product will be delivered to the user after a transaction from a store.

## VII. CONCLUSION

In this paper, we proposed an application system that revolves around an online ordering system. A user can buy their product through this app and will be able to pay through online payment or cash on delivery.

In the traditional system, a customer has to visit a store for purchase, and through an online medium, we have allowed the user to buy products online without visiting the store. This not only saves the time of the user but also helps to keep in check the number of transactions in the History of the app.

## REFERENCES

[1] Online Food Delivery App 'Foodie'

<https://www.researchgate.net/publication/353474489> Online Food Delivery App %27Foodie%27

[2] A Review of the Usable Food Delivery Apps

<https://www.researchgate.net/publication/342118544> A Review of the Usable Food Delivery Apps

[3] A Review of Usable Food Delivery App <https://www.ijert.org/a-review-of-the-usable-food-delivery-apps>

[4] Ricky M.Y., (2014). Mobile Food Ordering Application using Android OS Platform.

[https://www.epj-conferences.org/articles/epjconf/abs/2014/05/epjconf\\_icas2013\\_00041/epjconf\\_icas2013\\_00041.htm](https://www.epj-conferences.org/articles/epjconf/abs/2014/05/epjconf_icas2013_00041/epjconf_icas2013_00041.htm)

[5] Online Food Ordering System <https://www.ijrte.org/wp-content/uploads/papers/v8i2S3/B11560782S319.pdf>

[6] Mobile Food Ordering Apps <https://www.sciencedirect.com/science/article/abs/pii/S0268401219302038>

[7] A study of the Effectiveness of Online Food Applications <https://www.ijcrt.org/papers/IJCRT2101575.pdf>

[8] Bhargave, A., Jadhav, N., Joshi, A., Oke, P., & Lahane, S. R. (2013). Digital Ordering System For Restaurants Using Android

[9] Leong, W. H. (2016). Food Ordering System Using Mobile Phone

[10] Online Food Ordering System <https://www.ijraset.com/research-paper/online-food-ordering-system>

[11] Swiggy Food Delivery

[https://www.swiggy.com/?utm\\_source=GoogleSok&utm\\_medium=CPC&utm\\_campaign=perf\\_food\\_nu\\_google\\_search\\_sok\\_nar\\_m\\_brand\\_v1\\_v2\\_march23\\_brand\\_em&gclid=Cj0KCQjwxMmhBhDJARIsANFGOSuMSdPz4Z3ZDF7KaFrKiUxxeytaDGBITHgRGzIOwfkYVE1RPJAJ2KcaAnwdEALw\\_wcB](https://www.swiggy.com/?utm_source=GoogleSok&utm_medium=CPC&utm_campaign=perf_food_nu_google_search_sok_nar_m_brand_v1_v2_march23_brand_em&gclid=Cj0KCQjwxMmhBhDJARIsANFGOSuMSdPz4Z3ZDF7KaFrKiUxxeytaDGBITHgRGzIOwfkYVE1RPJAJ2KcaAnwdEALw_wcB)

[12] Java Code <https://www.java.com/en/>

[13] Android Studio

[https://developer.android.com/studio?gclid=Cj0KCQjwxMmhBhDJARIsANFGOSu5T0HEWv\\_6ey\\_o\\_S9ZGbu3U0XtNCS79QZyi8hC8A4U7bUG4Y8AYe4aAspCEALw\\_wcB&gclsrc=aw.ds](https://developer.android.com/studio?gclid=Cj0KCQjwxMmhBhDJARIsANFGOSu5T0HEWv_6ey_o_S9ZGbu3U0XtNCS79QZyi8hC8A4U7bUG4Y8AYe4aAspCEALw_wcB&gclsrc=aw.ds)

[14] Zomato Food Delivery App <https://www.zomato.com/>

[15] Milk Basket App <https://www.milkbasket.com>

[16] <https://github.com>

[17] Youtube [www.youtube.com/](http://www.youtube.com/)