

# Proposed System for Mumbai's Dabbawala Using Android Application - m-Dabbawala

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# ABSTRACT

The advancement in technology has greatly influenced all the fields. Nevertheless, the dabbawala's have been lagging in this aspect as compared to other areas. However, rapid development has allowed areas to implement technology. In this paper an application is been proposed for the Mumbai's dabbawala which will allow them to carry out their task efficiently and with a ease as well as end user can avail the service whenever required. The implementation of the system will be done using android application for android devices. The front end will be developed using JAVA, android and at the backend MYSQL database will be used.

Keywords : Android Mobile, Mobile Application, SMS, Email.

## I. INTRODUCTION

In the current system, if any one wants to subscribe for services of dabbawala then customer needs to contact the service provider of dabbawala's via a phone call or need to visit their office and avail the services. It incurs more time as well as information is being stored on paper, which increases paper, work and makes record maintenance tedious, rather than that, there aren't available for some period of time.

The proposed system focuses on developing an application which will be available to the users with an ease and can perform the actions without any restrictions according to their needs. As the application, will be available on the handheld devices it can be accessed anytime, anywhere to book the services which will eliminate constraint of non-availability. It also reminds the user whenever their service is going to be expired or whenever they subscribe else terminate their services via SMS and email. Whereas considered on the side of dabbawala's it will ensure that efficiency, stability and integrity is been maintained of the data regarding their business. As elimination of paper record helps them to access the data whenever required and maintenance is also easy of the records & in case of accident backup is been available which can be restored to its stable state without any loss of data and bring the whole business to stable state in terms of record. Adoption of new technology ensures elimination of errors with respect to calculations and reduces the labor cost of maintenance.

#### **II. METHODS AND MATERIAL**

#### A. Literature Survey

• A Proposed System for Touchpad Based Food Ordering System Using Android Application. Vol. 3, Issue 1 (Jan. - Mar. 2015)

In earlier days, food industry traditionally has lagged behind other industries in adopting new technology. Food is being ordered with an entirely manual process, which involved waiters, pen and paper. The waiter had to note down orders from customers, take these orders to kitchen, update them in records and again make bill. There are many reasons leading to the feeling of dissatisfaction. To overcome these limitations in manual system, multi-touchable restaurant management system is useful which will be equipped with a user-friendly touch screen, display screen in the kitchen, and software for completing the process at the backend.

• Mobile app development for the Indian market. Volume: 31 Issue: 3 The number of mobile users with Internet access dwarves the number of fixed-line Internet users. This means that most users will get to know the Internet via their smart-phones rather than their computers. Mobile has been the most important factor for bringing the benefits of the Internet to the palms of broader populations, especially in healthcare, education, agriculture, and financial services. Mobile's contribution to Indian GDP is expected to quadruple by 2020 from the current US\$100 billion. Android is India's dominant smartphone platform, with more than 90 percent market share. The Indian market for mobile apps is growing and competitive. There's great potential for apps that can help meet consumer needs in a localized manner and use a location-aware business model.

#### **B.** Need of Proposed System

In this new technological word of new innovations and the obsolete technology getting compromised, we are to make striking balance for making our system reliable and efficient. In existing system, it relies on phone call or to visit them which is unreliable and manual work done by them may give invite to many errors while calculations of capital of dabbawala and halt to their income because of their non-availability. So, there is a need of application which is available 24\*7 and help to eliminate errors and provides assurance to both sides.

## **III. RESULTS AND DISCUSSION**

### **Proposed System**

In this age of significant competition, in services offered to customers regarding delivery is to seek new and innovative ways to create differentiation and increase profits. One of the best ways to do accomplish this is through the delivery of highly personalized services. One of the most powerful way is to increase the availability.

m-Dabbawala helps the users by providing services which eliminate the limitations of traditional system and ensures user they can perform the operations without any hassle.

m-Dabbawala services include subscribing the services for dabba on weekly, monthly or quarterly basis. User can terminate the services if required. An acknowledgement is also provided after the successful subscription of the service to ensure that required services are been obtained.

Whereas considered regarding the dabbawala's side admin has the sole authority to manage all the activities. Admin can add new dabbawala in the system as well as remove if any such circumstance is arrived.

#### **Modules of Proposed Project**

• Business Logic Module.

#### **Registration:**

The first required action after performing it only you can proceed to perform activities. Here, user needs to provide the required fields to register in the system inorder to login via application.

#### Login:

A combination of phone no and password which is been stored is the database is checked if both the fields are valid after that they are authenticated & if passed then it provides accessibility to the avail the services and in case any of the field is not valid error message is been popped.

#### Subscription

Registered users have this facility available using this main objective is been obtained to book service of dabba it is been available on weekly, monthly or quarterly basis. In case he wants to discontinue due to some specific reasons cancellation of services is available to ensure no loss is been gained to user.

#### Acknowledgement

As soon as dabba services are been started or terminated user needs some sort of reliability which is been provided using 2 ways viz message (SMS) and email. After any action regarding start or termination of service user is been acknowledged by 2 ways mentioned above.

#### **Admin Dashboard**

In Consideration, the dabbawala side admin is been present who will set of functions such as adding, removing of dabbawala's update set of rules regarding subscriptions and maintenance of data.

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#### Database Module

#### **Customer Database**

It stores all the data regarding the customer their name, phone no, email address, current as well as previous orders, subscription date and time.

#### Dabbawala Database

All the dabbawala currently working in their organization and their details will be stored in this set.

#### System Architecture



Figure 1. System Architecture

The project possesses a mobile application, which allows individual to perform set of actions. The architecture consists of user side and admin side. User side performs following activities registering in case of new user, login in the system if registered, subscribe for services, cancellation of services and Admin can perform activities such as update dabbawala information, check user's subscription and add or remove dabbawala.

# **IV. CONCLUSION**

By implementing this system, it will reduce the cost of labor and provide integrity and consistency with respect to calculation of cost of the services and the paper work will be eliminated that will eliminate the space issues for storing the files and accessibility of previous record can be done at any time. As well as user is been notified with SMS and email's so that he can be relied on system without missing deadlines.

# **V. REFERENCES**

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