# POPO



# CONTENTS

- Project info
- Problem statement
- Idea description
- Use case
- Technology/stack
- Development process
- UI prototype
- Special features
- Scenarios
- Dependencies
- Show stoppers
- Future enhancements

## PROJECT INFO

MINISTRY CATEGORY: MINISTRY OF COMMUNICATION

PROBLEM CODE: #POS3

TEAM LEADER NAME: MARY SUSHMI M

CURRENT AICTE APPLICATION NO : 1-332551643 (2017-2018)

# Predicting the Delivery of the article

#### PROBLEM STATEMENT:

Several of the e-commerce articles as well as speed post, E.G passports require presence of addressee at the time of delivery. Postman ringing the bell or knocking the door to realize that the addressee is not available is a waste of time and precious resources. It is also inconvenience for the addressee.

With mobile penetration, is it possible to inform the addressee of the expected day and time of delivery?

#### **IDEA DESCRIPTION:**

- A responsive website and android application which relays the package details such as location and date of delivery to the intended receiver and sender from the point of posting.
- A mail with the packages ID(in the form of URL) is sent to both sender and the receiver via mail and messaging by the time of dispatch.
- Upon clicking the URL the user will be taken to a webpage displaying the predicted date of delivery .

- If the date is not feasible for the receiver to receive the post, they can change it to a convenient date and time .
- If the receiver is out of town he can then go ahead and cancel the post. At this scenario the post will be redirected to the sender himself.
- The receiver can change the convenient date for receiving mail at a maximum of three times ,after this the post will be returned to the sender.
- Periodic automatic mail and message updates will be sent to both receiver and sender regarding the status of the post.

# USECASE Login using postal id Updation of available dates Entry of details Notification of users Delivery confirmation Cancellation of package Tracking of paching

### TECHNOLOGY/STACK

Website:

Client side: HTML, CSS, jQuery, Ajax, Bootstrap

Server side: PHP,

Database: Firebase.

Mobile App:

Android Studio, Firebase.

AJAX

Used for exchanging data with a server, and updating parts of a web page – without reloading the entire page

BOOTSTRAP

Framework for creating a responsive website.

ANDROID STUDIO

Official integrated development environment (IDE) for Android platform development.

FIREBASE

Realtime Database for android and webpage.

#### DEVELOPMENT PROCESS

Prototypes to be developed:

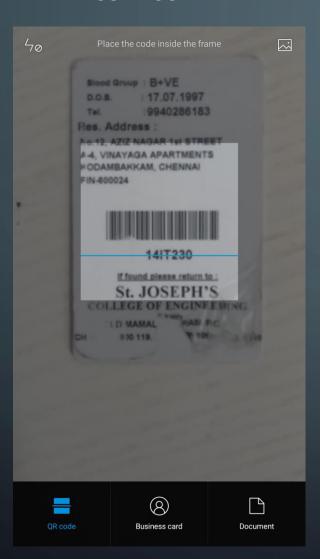
A webpage for,

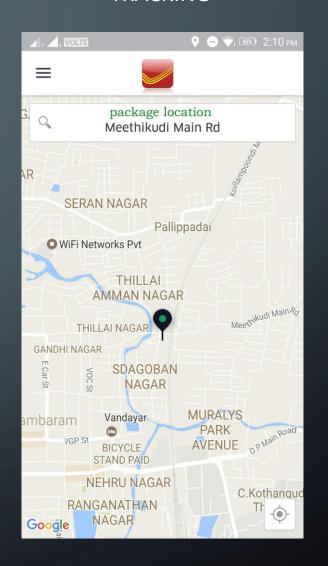
- updating the status of the package throughout the transit from the time of dispatch to delivery.
- updating the convenient date and time by the receiver
- cancelling the order by the receiver
- mail notification updates throughout the transit

#### UI PROTOTYPE

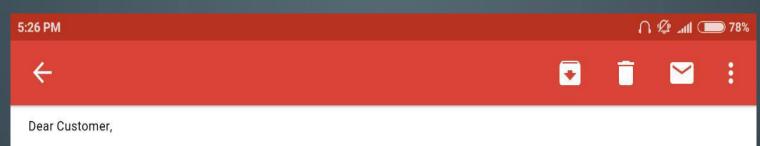
BAR CODE SCANNER

#### **TRACKING**





#### **AUTO GENERATED MAIL**



Greetings from Indian Postal Service.

We are pleased to inform you that following items in your Order OD407192579492507000 from <sender name> have been packed and are ready to be shipped. Once the item(s) are shipped, you will receive an email with the Courier Tracking ID and the link to the website where you can track your order and change the date of retrieval to your convenience.

**WEBSITE LINK>** https://indianpost.com/email-confirm/15830914/M78kQk0Gttv3ooRQxVaySRhBPlxpFhBprH6ywRl7

<a>APP LINK> https://playstore/popo/1534276/fwjelhfiuwhwdjaoesd</a>

Item(s) details:

Product Code	Sender	Predicted Date of Arrival
OD407192579492507000	<sender name=""></sender>	1/12/2017

The shipment will be sent to::

- <Receiver Name>
- <Receiver address>
- <PO number>

Phone:<Receiver Number>

#### SPECIAL FEATURES TO THE PROJECT:

- 1. Real time tracking of the package using GPS.
- 2. Using barcode readers to uniquely identify the package.
- 3. Multilingual support.

### **SCENARIOS**

- 1. When the receiver is out of town, they can ensure proper delivery by changing the date to suit their needs.
- 2. Incase the receiver's address has changed or they are unavailable for a long period of time, they can cancel the delivery.
- 3. Suppose there is some urgent circumstances in which the receiver cannot be present for the delivery, they can defer it to suit their needs.
- 4. Cancellation of delivery is also possible due to inconvenience.
- 5. Real time tracking of the package using GPS when it's out for delivery.

# **DEPENDENCIES**

- Google ZXing Barcode Scanner API
- Google maps API
- Google translator API



- It can be troublesome if the user does not have an email id or a phone.
- Due to lack of knowledge over internet or internet access, the users may stumble.

# FUTURE ENHANCEMENTS

• Phone call verification for people to increase use of access.

Using RecognitionListener API

