

# Inbox Organizer Project Report

## Introduction

We receive lot of sms daily. Some are personal, transactions and promotional. But our traditional inbox shows all together. It becomes difficult to find useful messages on time. During train travel, user searches for sms having ticket. People pay penalty if payment is delayed for credit card, phone, internet, electricity. We build an hybrid app to organize these messages into personal, transactional, reminders and others to help the users.

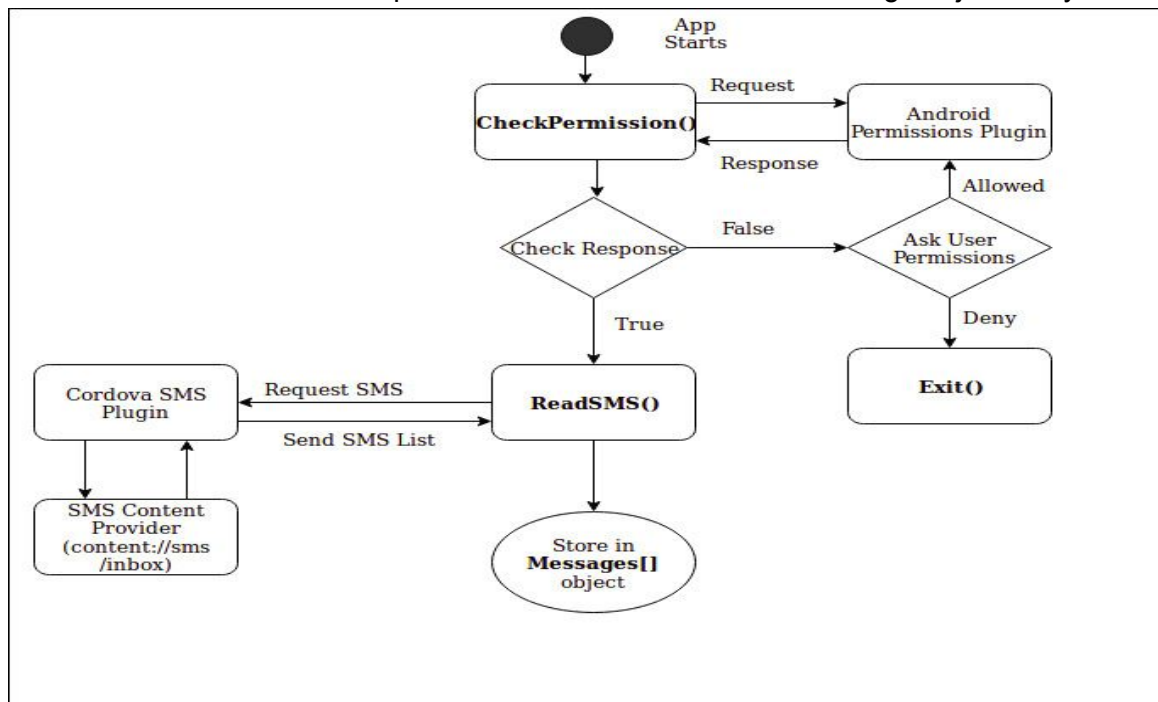
## Implementation

We developed the mobile application using ionic framework, AngularJS, Cordova Plugins and node.js.

The application has 4 major components

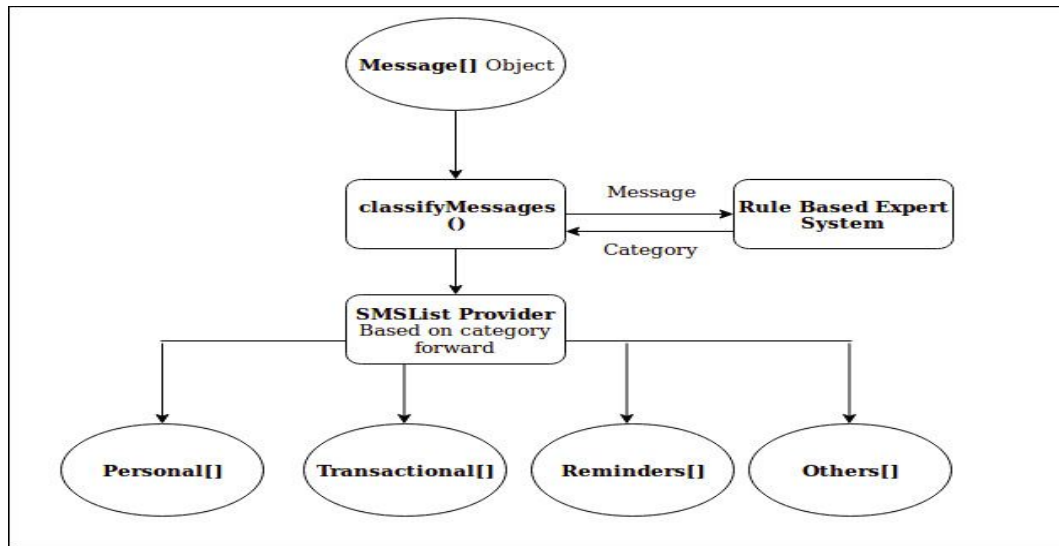
1. App. Permissions
2. Reading SMS
3. Classify SMS
4. Display SMS

At start of app, we need the SMS Permissions, we implement it with the help of Android Permission plugin, which provides the API to check and grant the permissions for app. We read the messages from our phone with the help of SMS cordova plugin which internally interact with the SMS content provider and stores them in an message object array.



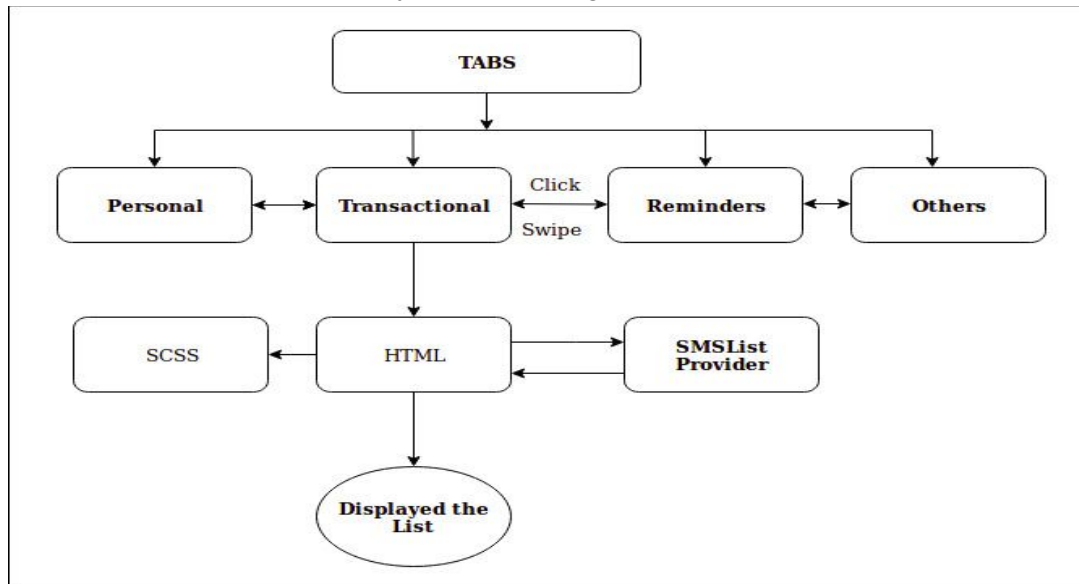
**Fig.1: App Permissions and Reading SMS**

We used the Rule based classifier using regular expressions to classify these messages into categories. After classifying them we store them in different lists of SMSList Provider.



**Fig.2: Classifying Messages**

These messages are displayed into categories with the help of tabs which can be changed either by click or swipe. These tabs are developed using HTML, CSS and JS which interact with the SMSList Provider to display these messages.



**Fig.3: Displaying Messages**

## Conclusion:

We have developed the hybrid mobile application with ionic to organize the inbox messages into categories which will help the users to find the important messages from the bulk.

## References:

- [1] Ionic Framework Documentation <https://ionicframework.com/>
- [2] Cordova SMS Plugin <https://github.com/cordova-sms/cordova-sms-plugin>