Smart India Hackathon 2019

Ministry & Organisation
Ministry of statistics & PI

Team name ⇨ Coding In Flow

Team Leader ⇨ Rishabh Verma
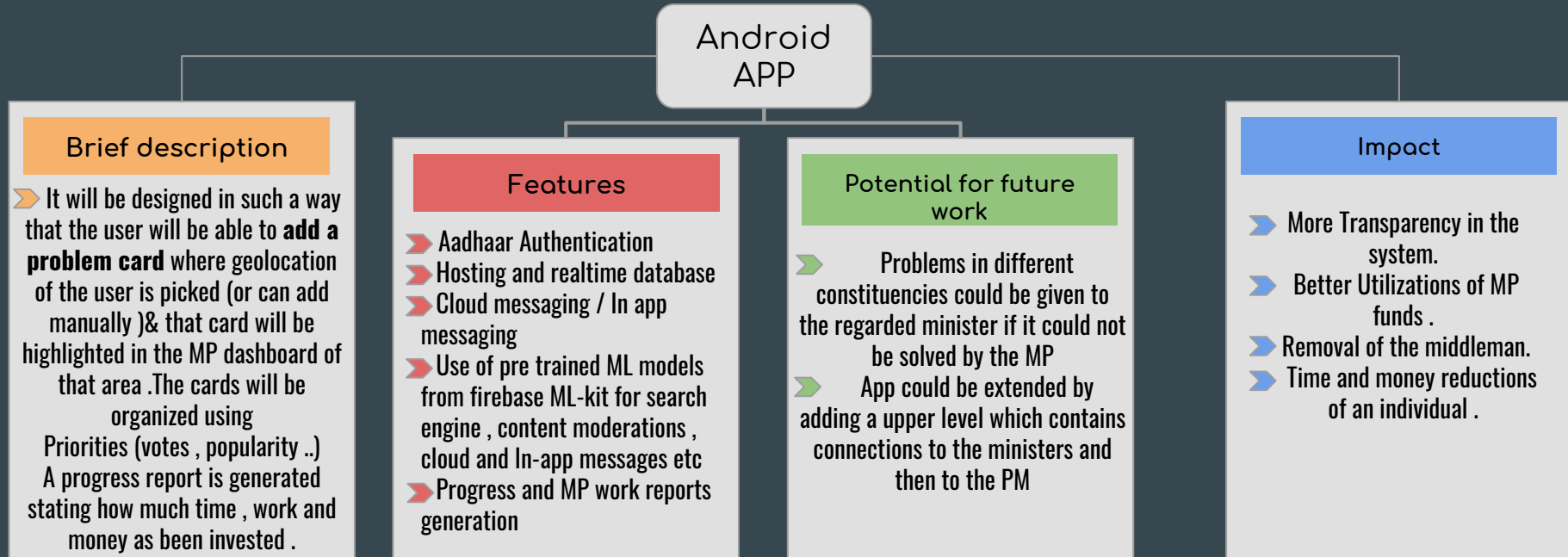
College Code ⇨ 1-3511932235

Problem Code ⇨ KK4

Problem Statement

There is a need to develop a digital platform which provides the citizens to list the works that should be recommended by a particular MP or to endorse the listed works of others. The platform should also inform the respective MPs about the works that are listed for his recommendation along with the number of endorsement each work has received. However, it would be discretion of an MP to select the works, out of this crowd sourced works, for recommendation.

Description & Solution

The Members of Parliament Local Area Development Scheme (MPLADS) is an ongoing Central Sector Scheme which enables the Members of Parliament to recommend works for creation of community assets based on locally felt needs in their constituencies area to improve national priorities namely drinking water, education, public health, sanitation, roads etc. The MPLADS is a Plan Scheme fully funded by Government of India where annual MPLADS fund entitlement per MP constituency is Rs. **5 crore**. But there is need for a link between MP and common people not only for transparency but better utilizations of the funds . So we have decided to make an app where a direct communication between MP and people could happen . Citizens can post a problem which will be directly send to MP dashboard where the problem statements are sort according to the votes, popularity & concerns and after acknowledgement by the MP a progress report regarding the current situation will be continuously updated for the people .

Android APP

Brief description

- It will be designed in such a way that the user will be able to **add a problem card** where geolocation of the user is picked (or can add manually)& that card will be highlighted in the MP dashboard of that area .The cards will be organized using
  Priorities (votes , popularity ..)
  A progress report is generated stating how much time , work and money as been invested .

Features

- Aadhaar Authentication
- Hosting and realtime database
- Cloud messaging / In app messaging
- Use of pre trained ML models from firebase ML-kit for search engine , content moderations , cloud and In-app messages etc
- Progress and MP work reports generation

Potential for future work

- Problems in different constituencies could be given to the regarded minister if it could not be solved by the MP
- App could be extended by adding a upper level which contains connections to the ministers and then to the PM

Impact

- More Transparency in the system.
- Better Utilizations of MP funds .
- Removal of the middleman.
- Time and money reductions of an individual .

1 The client will start by adding problems on the app He can choose an **image,video etc ...followed by description.**

People Side

MP Side

5 Problem are **organised according to priority**

2 Through **Google Maps API** location of the client is picked and the problem card is then **reflected to the MP's dashboard assigned to that region**

6 **Acknowledge** is send back to the user Stating Progress **(Within a specific time)** , how much money is invested etc ..

Search

.JPG/.MP4

Search

Problem 1

Sector   Priority

Problem 2

Sector   Priority

Problem 3

3 The power to a **Vote** particular problem card will be one of factors to decide the **priority of the problem card on the MP's dashboard**
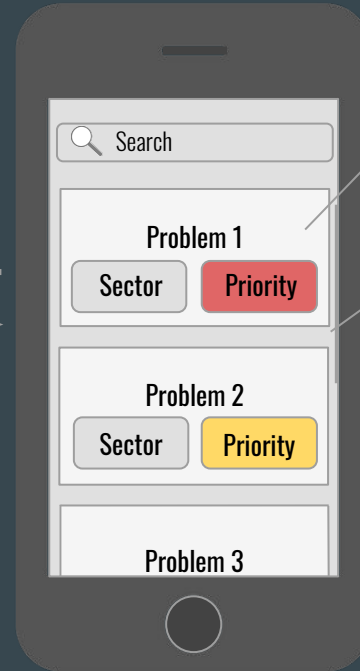
REPORT

4 **Pre-trained ML Models** from Firebase ML-KIT , Google cloud can be used to optimise features like Search engine , problem repetition, content moderation , Landmark detection & more..

7 A **report** is generated where everything the MP does is reflected , this report then can further be used by people to help them **choose their next leader** . Another report will be generated stating **where and how much money is invested out of the MPlads funds .**

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Technology Stack

Mobile App

Android App ⇒	Android Studio

Backend ⇒	FireBase

Programming Lang. ⇒	Kotlin + Javascript

Machine Learning

ML-Kit by Firebase

Tensorflow Lite

Programming Lang. ⇒	Python

Software

Common API to be used

Google Maps	Google Cloud	Aadhaar API	API by Firebase

Use Case

As discussed before the app can be used for a direct communication between government and people so the app can be used as a **medium to raise a concern** about national priorities from both rural and urban area.

Since a **report about a MP** is created and **continuously updated we can build an API** for other app to reflect the works that has been done by MP's for **people to use this data/knowledge** to choose their next leader wisely.

Dependencies

There are no dependencies , everything regarding the scheme is available on www.mplads.gov.in and vikaspedia.in
Since we are using Pre Trained Model in ML therefore there is no need for DataSet