

Idea/Approach Details

Ministry/Organisation name: National Crime Records Bureau

Problem Statement: SK215

Team Name: Avocado

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College Code : C-1331

PROBLEM

In the digital world of ubiquitous online presence of everyone, all the Indian police organisations too have gone online. However there are considerable variations in the apps and websites of various police organisations in India. **There is a great need for standardization of the apps. There is also a need to have a uniform countrywide template for Police Apps, which would have common features to ensure uniformity in the services provided in the platform.**

SOLUTION

OnDUTY is a **mobile application integrated with a chatbot**. We have tried to create an ideal standardised App which includes the following features:

For Police :

- 1) **Digital Crime Record management**
- 2) **Smart Evidence reporter and Tracker** (Evidence captured from the phone camera is automatically tagged with location and details. Moreover, other police can track the evidence using Google Maps).
- 3) **Resource Allocation and Beats** which handles all situations **including emergency** situations **using Machine Learning Models**. **Crowd density** of a region is also considered for better allocation.
- 4) **SOS Alerts to control room and citizens** (Alerts sent to the respective authorities , control room and also to the citizens in and around that area)
- 5) **Digital Scheduling** of Duties (Every police officer gets the schedule on his/her app in any language they prefer. **This removes the issue of language barrier as well.**)
- 6) **Updated news release** to keep the police updated

For Citizen:

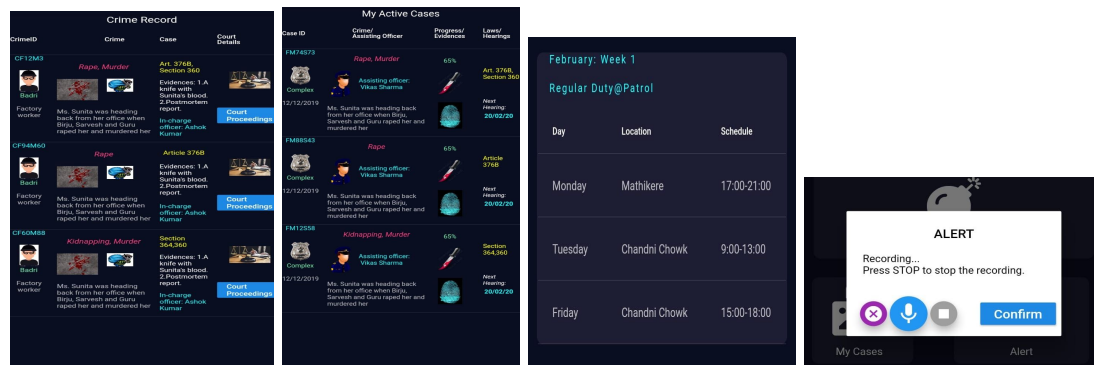
- 1) **Digital Complaint lodging (Key Feature:** The user can file the complaint **in any language** on his/her app but it gets converted into the local language maintaining the standard format of complaints. This **removes the illiteracy barrier, geographical barrier and language barrier** as well.)

2) **Emergency alerts** (In case of emergency **nearest police stations** and other authorities are sent distress calls)

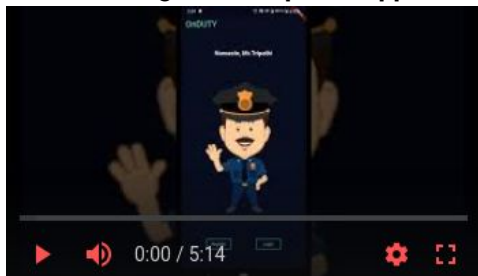
3) **API (Active Police Info)** which tells **which police officer is present** in a police station like **DGP, DIGP, SP, DSP** taking care of security of personal details of police officers. This helps the citizen in case they have any appointment with any officer)

4) **Auto Filling and Auto generation of forms** (take a pic of details or record audio and it automatically generates a digital form like FIR, NOC etc. in the standard format)

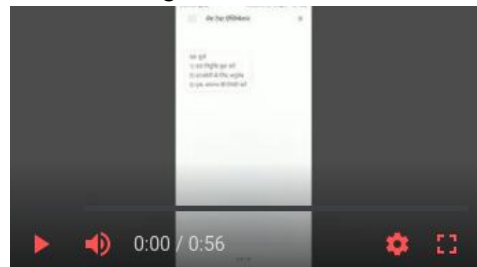
UI Mockup & DEMO (Zoom in to see the mockup)





Click the image link for police app demo


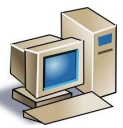








Click the image link for chatbot demo

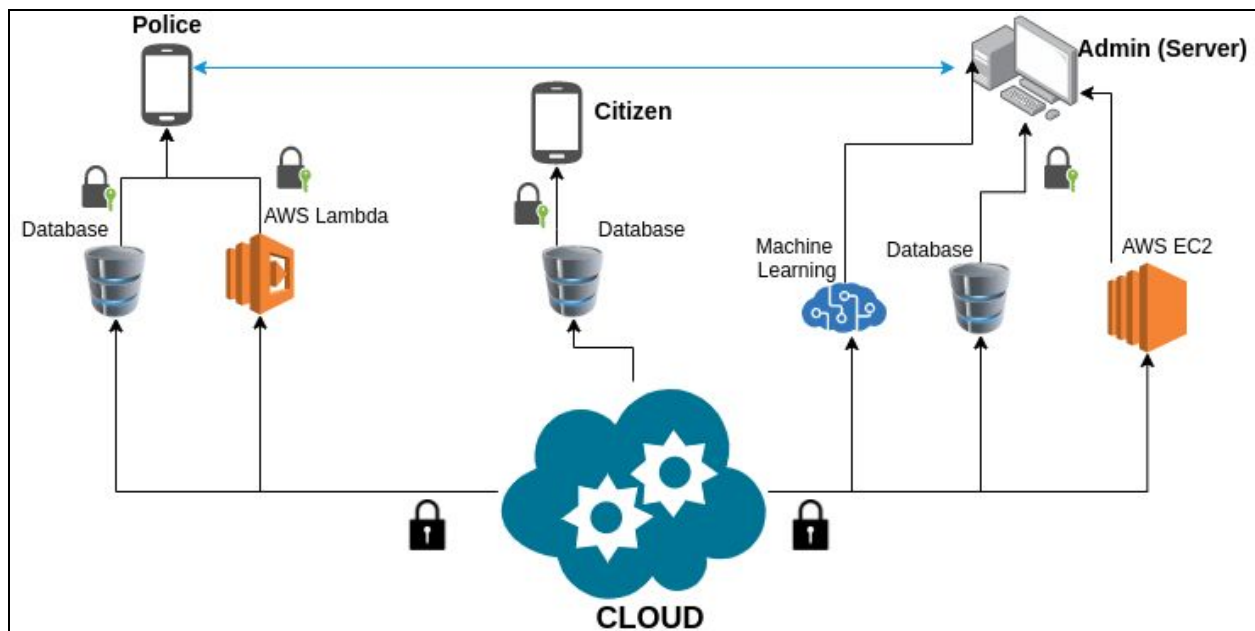


TECH STACK

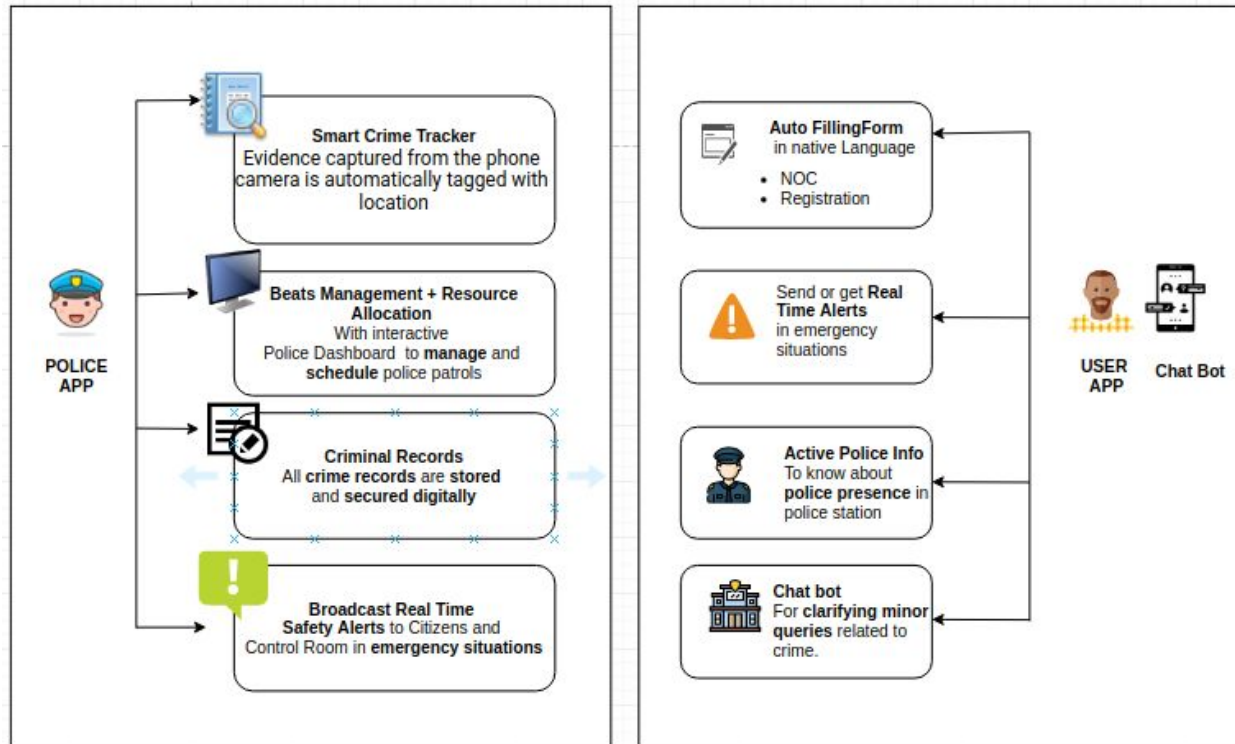
NAME	FOR	USERS
	For app development ADVANTAGE: android + iOS development support	POLICE + CITIZEN
	For making chatbot. ADVANTAGE: Supports many languages.	CITIZEN

 Cloud Vision API	For Autofilling form.	[Backend] 
	For securing criminal records and other important data.	[Backend] 
	For machine learning models.	[Backend] 
	For hosting APIs and backend.	[Backend] 

ARCHITECTURE



USE CASE



Unique Selling Points(USPs)

<p>1. Smart Evidence Reporter and tracker helps the police to take a picture and add description of the evidence and it automatically geotags it and creates a landmark on the map that can be tracked using Google Maps.</p>	<p>2. Auto filling forms from audio and picture. The audio and picture can be in any language and any format. It gets converted into the standard form in the local language for the benefit of the local police.</p>
<p>3. Smart Resource Allocation done taking care of <u>crowd density of areas calculated</u> hour by hour and the area's crime frequency.</p> <p>4. Digital Complaint Lodging allows easily lodging complaints like F.I.R, NOC etc. using chatbot</p>	<p>5. Smart Alerts: Police can send the alert in his/her language in an emergency scenario. Problem: the citizen around may not necessarily know the language. We convert the alert in the language of each and every citizen around with an integrated map making them known of the alert in the best way.</p>

DEPENDENCIES:

ACTIVE INTERNET CONNECTION