



Rajasthan
Police

RAJASTHAN POLICE HACKATHON

1.0

Problem Statement #1 – Developing a police feedback system.



OUR TEAM



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Team Lead



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Team Co Lead

User-Centric Interface Design:

- Implementing visually appealing dark mode with high contrast and customization.

API Development:

- Developing secure APIs with clear documentation and optimized performance.

Social Media Feed Logic:

- Create real-time feed with diverse content and user interactions for enhanced engagement.

Geolocation distress help API creation:

- Creating a distress signal geolocation tagging API to detect closest policeman's location.

Sentiment Analysis API:

- Added the sentiment analysis api to the feedbacks to provide deeper insight.

WebApp Creation:

- Working simultaneously on Frontend and Backend Creation.

INTRODUCTION

- Taking a look at the needs of the problem statement we found that there exists a gap between technologically growing society and our existing police system.
- Our team has built a comprehensive feedback system to assess this need, grow user engagement and make people more in touch with the police.
- We've incorporated various elements to enhance our solution's effectiveness, ensuring a versatile and robust approach.

"PROBLEM #1"



Kavacch

In service to your service

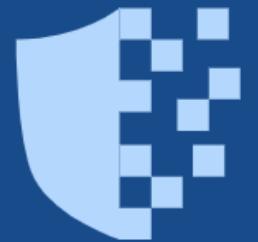
KAVACCH

- Taking into account all these factors we have developed a social media based multi frontal solution.
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Methodology:

- We've incorporated various elements to enhance our solution's effectiveness, ensuring a versatile and robust approach.
- PWA: Progressive Web App is used to reduce the cost of development and provide seamless functionality across any device
- Pwa is supported by every OS, devices with inbuilt hardware functionality which make him perfect alternative of native apps

"PROBLEM #1"



Kavacch

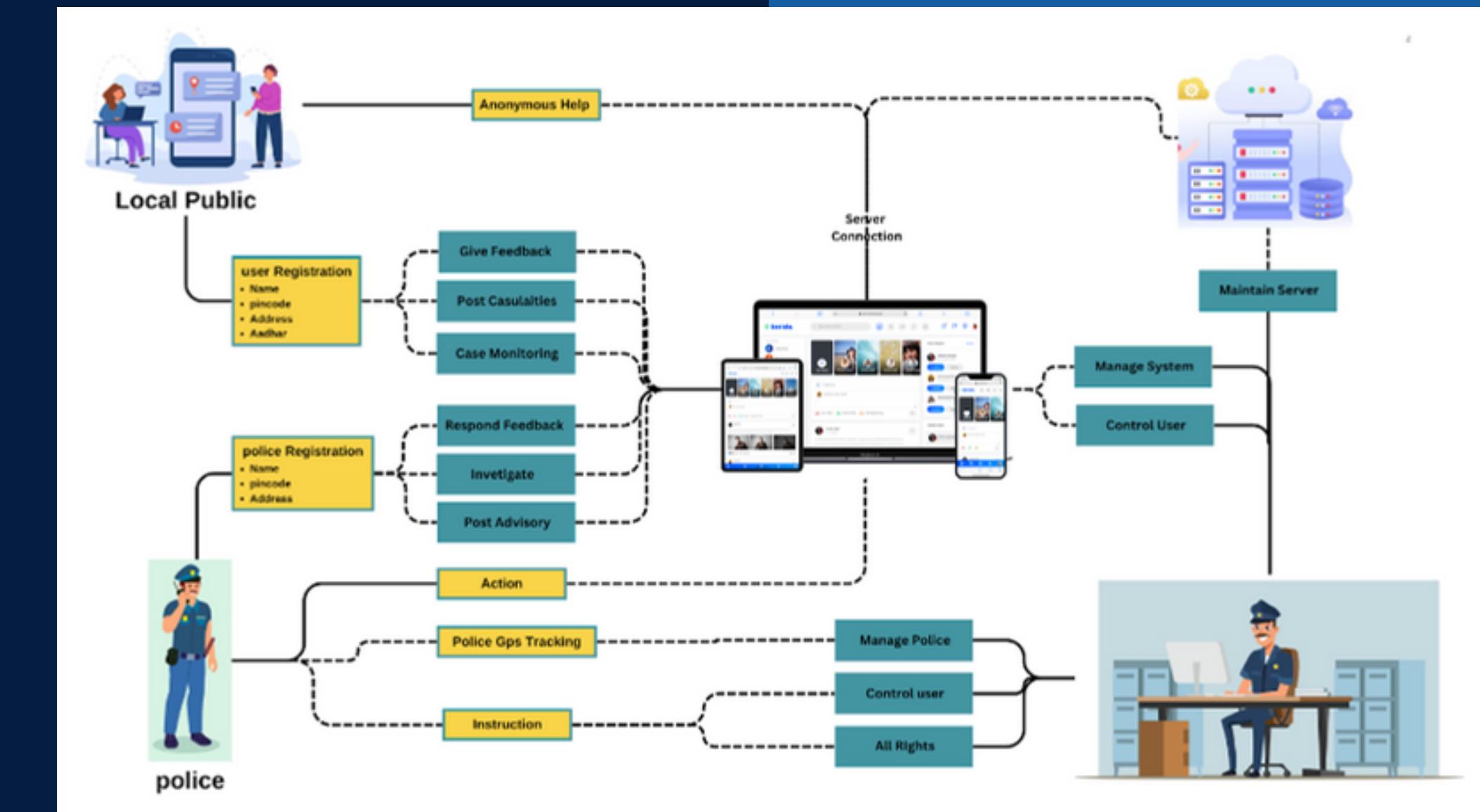
In service to your service

OUR IMPLEMENTATION

- These are the key features we have managed to implemented on our application.

Key Features:

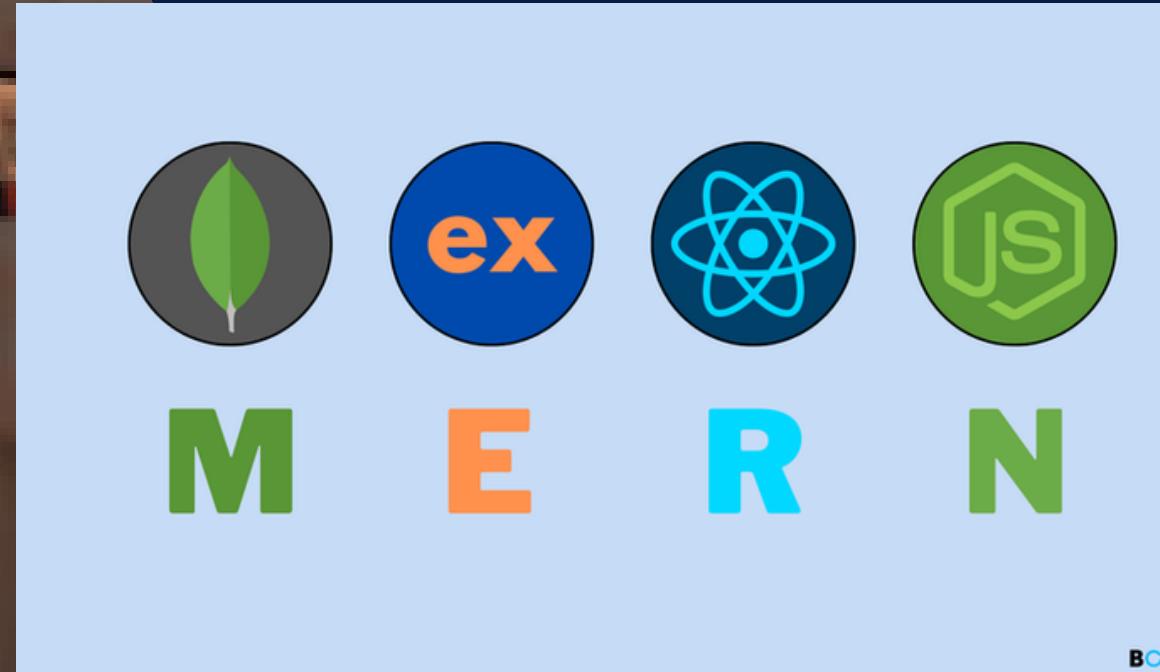
- Multi Device support.
- Online Data Management.
- Anonymous Feedback.
- Social Media-Like Platform.
- Automatic Data Entry.
- Cost-Effective Development.
- Police GPS Tracker.





WORKING MODEL

- Smart devices and computer devices usually require the developer to develop a separate system for same or similar functionality.
- By using PWA in our project our MERN App becomes downloadable and functions like a real App.
 - We have used MERN Stack along with NextJs, tailwind to design our UI and develop APIs.



OUR APPROACH

Approach:

- Our approach was to create a way for our different users to interact with each other and help police understand how our app works.

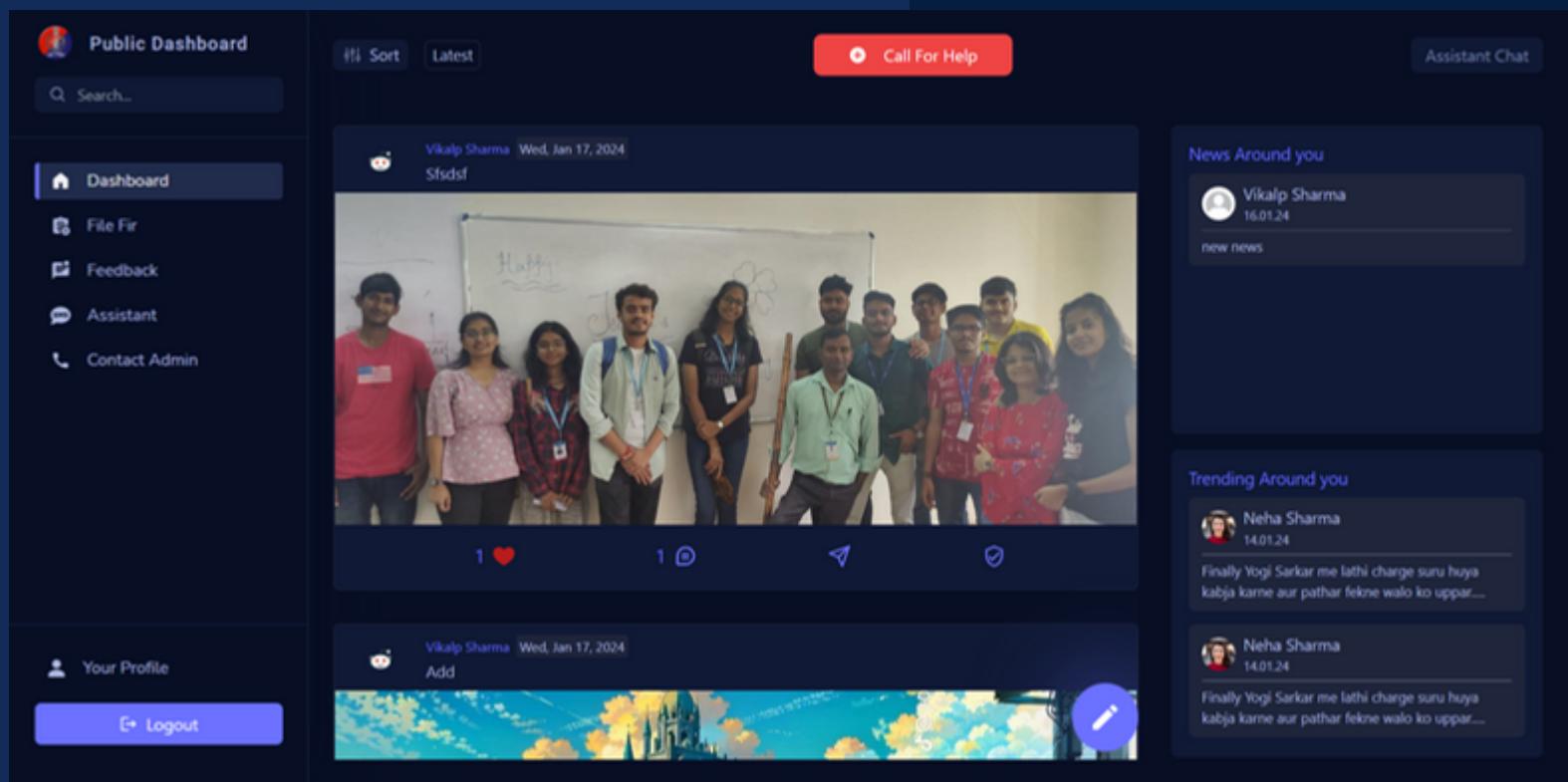
Policemen Role:

1. Centralized Dashboard:

We aimed to make a centralized dasboard for the Police to provide key insights at their finger tips using different technologies.

2. Online Record Maintenance:

A way to create, store and maintain online records.



User Role:

1. Current Feed:

- Displays feedback, Social media posts and interactable that user can interact with.

2. Report and Help:

- Call policemen to your help and let them know about your distress through various means anonymously or immediately by gps help.

Admin Role:

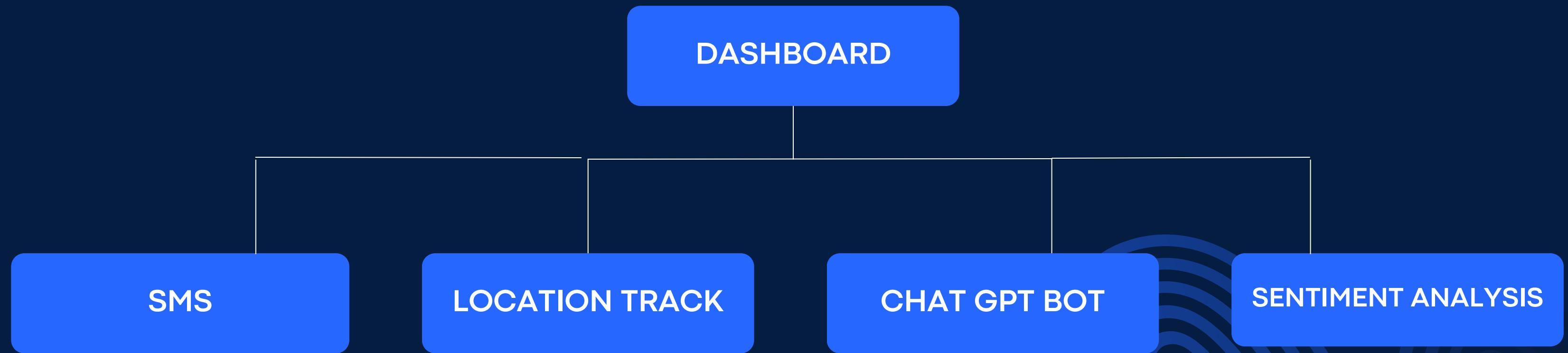
- Hosted above and over Police and user Roles
- Similar to Police dashboard but has multiple extra features that help in managing the police accounts.

The screenshot shows a "Public Dashboard" interface. On the left, a sidebar includes links for Dashboard, File FIR, Feedback (which is highlighted in blue), Assistant, Contact Admin, Your Profile, and Logout. The main area is titled "Recent Feedback" and displays a list of entries. Each entry includes the user's name (Waja or Vikalp), age (18 years or 20 years), the feedback text, the officer's name (Abhiney Singh), the date (e.g., 14.1.24 Sunday), and a rating (e.g., Slightly Positive). There are also "File Feedback" and "Sort" buttons at the top right.

The screenshot shows a "Police Dashboard" interface. The left sidebar includes links for Dashboard, FIR reports, Feedback, Social Media, Our Teams (which is highlighted in blue), Contact Admin, Your Profile, and Logout. The main area displays a grid of 12 circular icons, each representing an officer named "Kamla Prasad Tiwari". Each icon has a green "Available" button below it. A "Sort" button and a search bar are at the top right, and a "I am Available" toggle switch is also present.

Sub Feature List

Major features that we have developed on our site



SMS

Using twilio to send out bulk messages to user

LOCATION TRACK

Creating a call for sending out distress signal from user location

CHAT GPT BOT

Using gpt directly in our system to address user queries

SENTIMENT ANALYSIS

Running sentiment analysis on the data to gain deeper and effective insights.

CURRENT PROGRESS



Social Media Dashboard.



Simple/ Anonymous feedback is implemented



GPS Call for help emergency routing service is enabled



Pwa App is ready to be installed



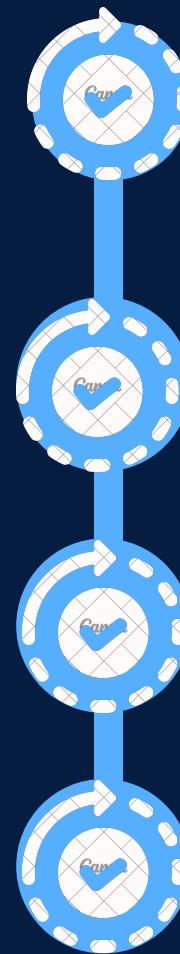
Pwa App is ready to be installed

The screenshot shows a dark-themed chat interface titled "Police Bot". On the left, there's a sidebar with a "user" section containing the message "Hello What can you do?". On the right, the "Police bot" responds with: "Hello! I am a police advisor chatbot. I can assist you with queries related to Indian law, police procedures, legal definitions, and other law enforcement-related topics. Feel free to ask me anything related to law and I'll be happy to help!". At the bottom, there's an "Enter Query" input field and a "+" button.

The screenshot shows a web-based application for managing feedback. It features a header with "File Feedback" and a search bar. Below is a table titled "Recent Feedback" with columns for "User Details", "Feedback", "Hero", "Posted at", and "Rating". The table lists several entries from a user named "Waja" and one entry from "Vikalp". The feedback entries are mostly positive, with some users thanking officers for cooperation. The last entry from "Vikalp" is marked as "Very Negative".

User Details	Feedback	Hero	Posted at	Rating
Waja 18 years	I would like to thank officer Abhiney Singh for his cooperation with me.	Abhiney Singh	14.1.24 Sunday	Slightly Positive
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Waja 18 years	I would like to thank officer Abhiney Singh for his cooperation with me.	Abhiney Singh	14.1.24 Sunday	Slightly Positive
Vikalp 20 years	Added a lot of stuff		17.1.24 Wednesday	Very Negative

FUTURE ROADMAP



Thread based Flr System.

Auto Location Social media posts / detection.

Custom Bulk SMS server to reduce cost

Location-based tagging on social media

Thank's For Watching

Connect with us.



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