

# TECH TITANIUM

RAJASTHAN POLICE HACKATHON 1.0

**GROUND PERSONNEL  
TRACKING SYSTEM**

# Motivation

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## 20 police personnel suspended for skipping Rayalaseema Garjana bandobast duty

They arrived in Kurnool from Anantapur and Nandyal districts, but were absent from the ‘call’ conducted by Kurnool Superintendent of Police

December 06, 2022 07:37 pm | Updated 07:37 pm IST - KURNOOL

RAMESH SUSARLA

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## Bandobast duty leaves policemen reeling

They feel stressed out since the work is in addition to crime prevention and law and order maintenance

October 08, 2015 12:00 am | Updated 05:33 am IST

Jan 17, 2024 10:12 am

THE NEW  
**INDIAN EXPRESS**

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Chennai

### Women cops on bandobast duty in Chennai suffer due to lack of toilet facilities

In 2021, the State government sanctioned 12 mobile toilets for police personnel on bandobast duty in city, but on Monday none of them were at the scene where they were needed most.

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News / India / Latest News / The bane of bandobast

Premium

## The bane of bandobast

Bandobast means long duty hours without a break, and no food or proper toilet facilities.

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HOME ► PUNE ► CIVIC ► COPING WITH 12-HOUR DUTY TOO TAXING FOR CONSTABLES

## Coping with 12-hour duty too taxing for constables

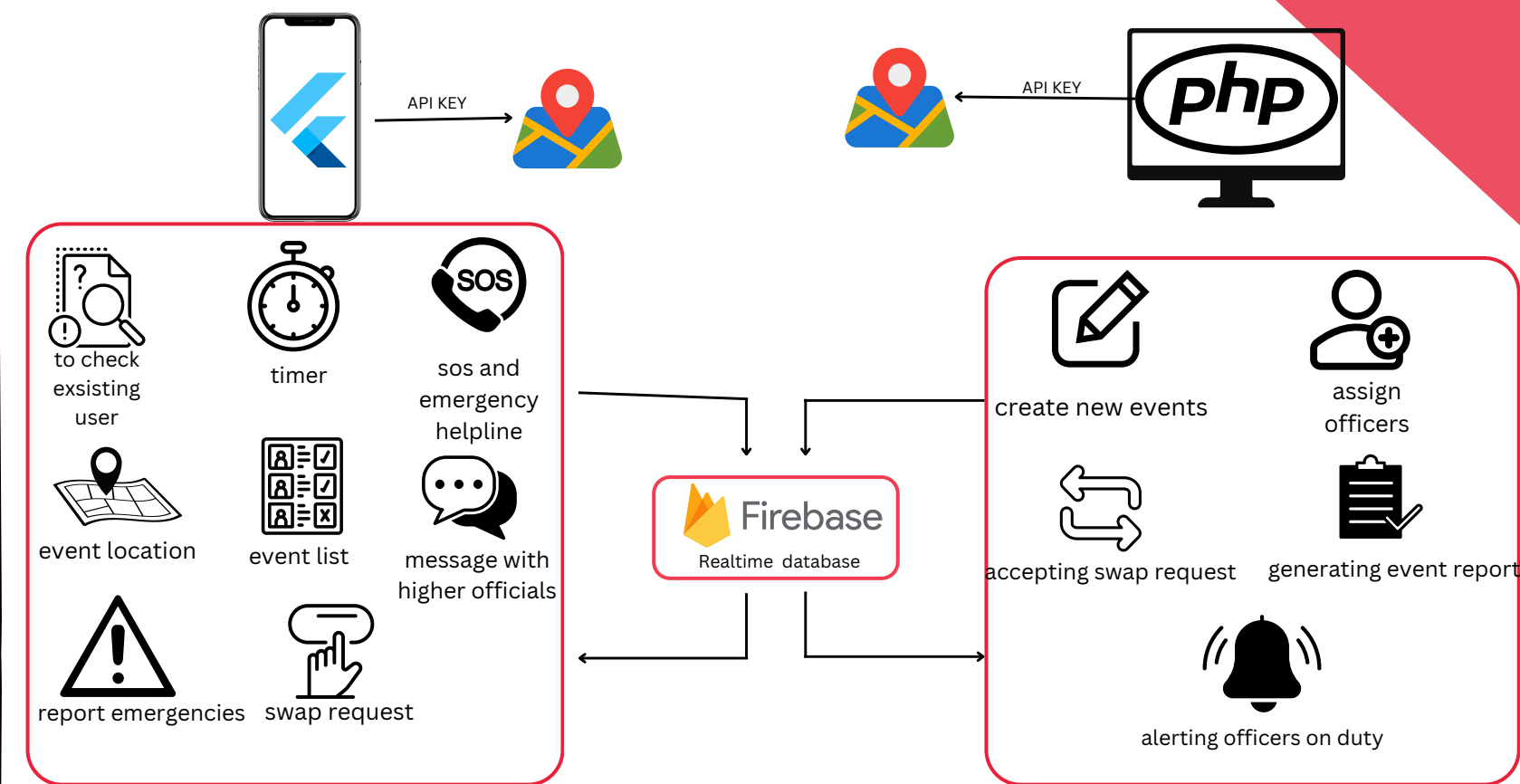
COMPLAINT MADE TO NATIONAL HUMAN RIGHTS COMMISSION RTI activist complains to NHRC and CM, after studying negative impact of long shifts during VIP bandobasts. Police personnel who end up standing for

# Solution

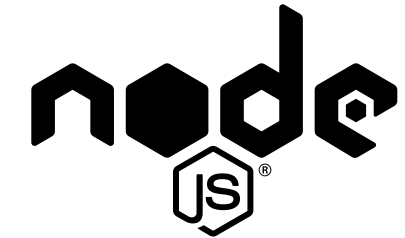
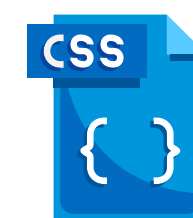
With the use of several algorithms, we aim to create a website and mobile application that will enable the police force to monitor the whereabouts of its officers and make sure they don't leave their posts to go elsewhere while on duty.

- With their latitude and longitude provided by the application, we can quickly identify two police officers who are in the same area.
- Every 40 minutes, the officer must use his biometric to confirm in order to avoid using a proxy while on duty.
- The software inquires about the deployed officer's personal information to make sure he is at the designated area if an officer hands his phone to a stranger while on duty and he hasn't verified with his biometrics.
- When the entered responses do not match, the individual must provide a convincing defence to the higher authority.

## Idea graph



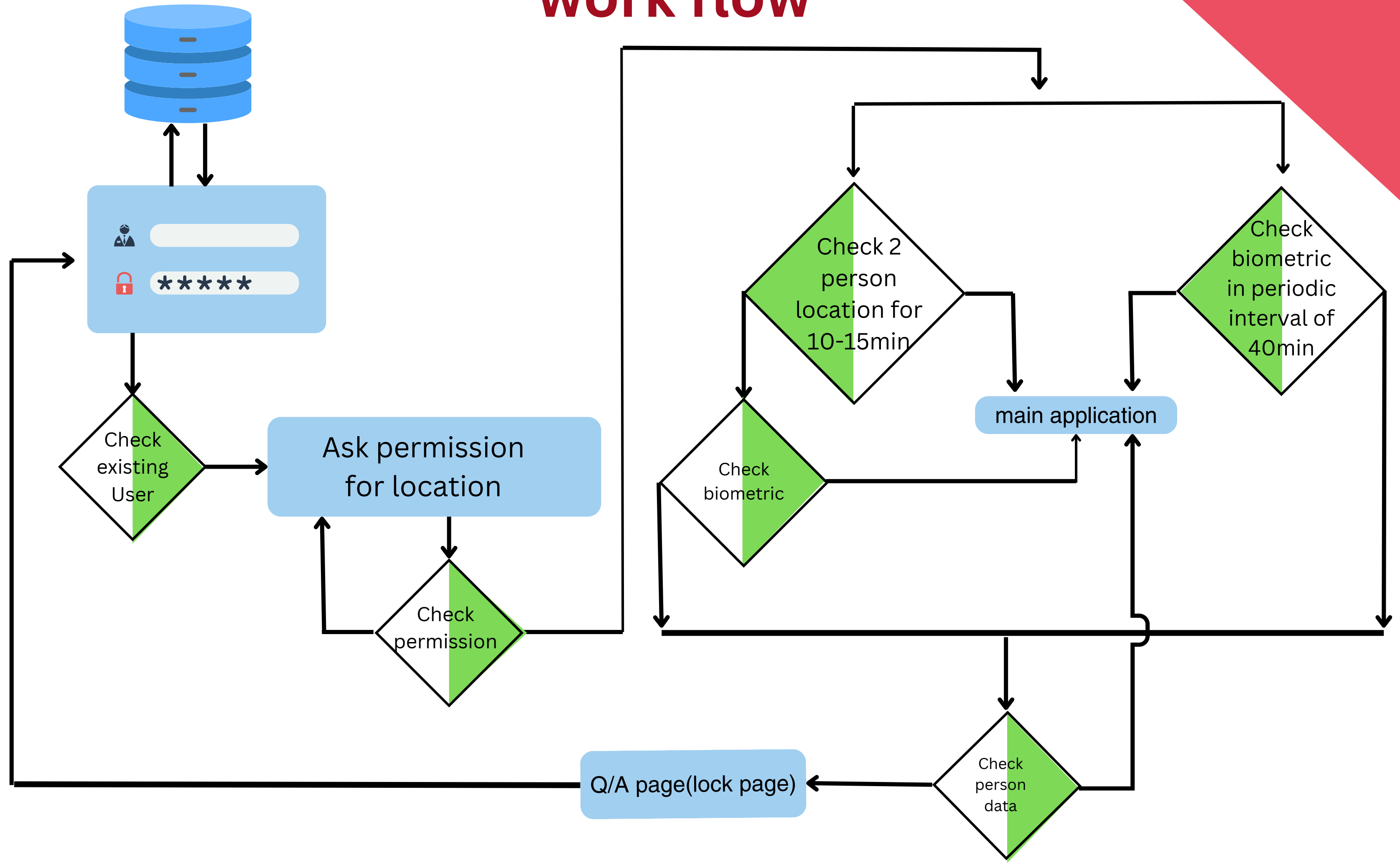
## Stack



## Database



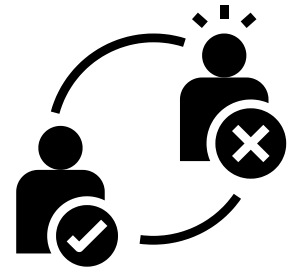
# work flow



# Features



▶ Application to remotely track police officers deployed on bandobast duty



▶ To detect and identify cases of unreported absence or change in duty, application will detect for user confirmation



▶ In case of emergency, the app features hotline numbers and an SOS button.



▶ Police officers have the opportunity to swap out other cops for emergency.



▶ Officers can use the chat box to direct their questions to higher-ranking officials.



▶ Utilizing fingerprints and personal information, identifying the user's existence

# MEMBERS

**Name**

**Roles**

**1**

**MANIKANDAN RM**

**App developer ,database management(team leader)**

**2**

**RAHUL K**

**App developer, Presentation**

**3**

**PRAVEEN A S**

**Frontend developer(website)**

**4**

**LOGESHWAR A**

**Frontend developer, database management**