

WhistleIt

WhistleIt Corruption Reporting App

BitNBuild'24

Team: 74 - DEV DYNASTY

MEET CHAVAN
DEVANG HARSORA
DHRUV MEHTA
SMIT PATEL

Problem Statement

Title: CorruptionWatch – Secure Reporting and Investigation Platform

Problem Statement: Creating a robust anti- corruption reporting web/app solution with advanced features requires careful consideration of various factors including security, anonymity, efficiency, and usability.

Features such as anonymous reporting, secure communication channels, multiple reporting channels, geo-tagging, evidence upload capability, and a comprehensive case management system are essential.

Additionally, incorporating an anonymous messaging system for communication between investigators and whistleblower

Tools Used for Development



Flutter

The client app for whistleblowers and the app for investigators was developed using Flutter.



ReactJS

The admin panel for the management of the reported cases was developed using ReactJS



Figma

The initial UI design for the mobile applications was created in Figma for maintaining uniformity of the designs.



GitHub

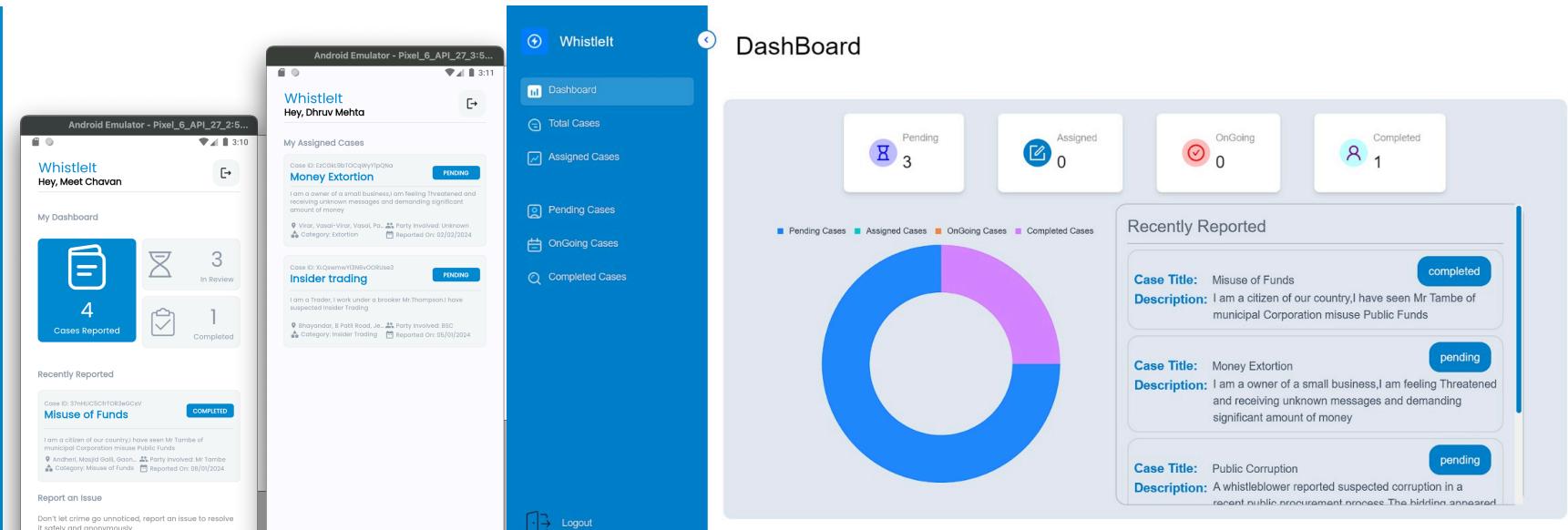
GitHub was used for code collaboration and version control.



Firebase

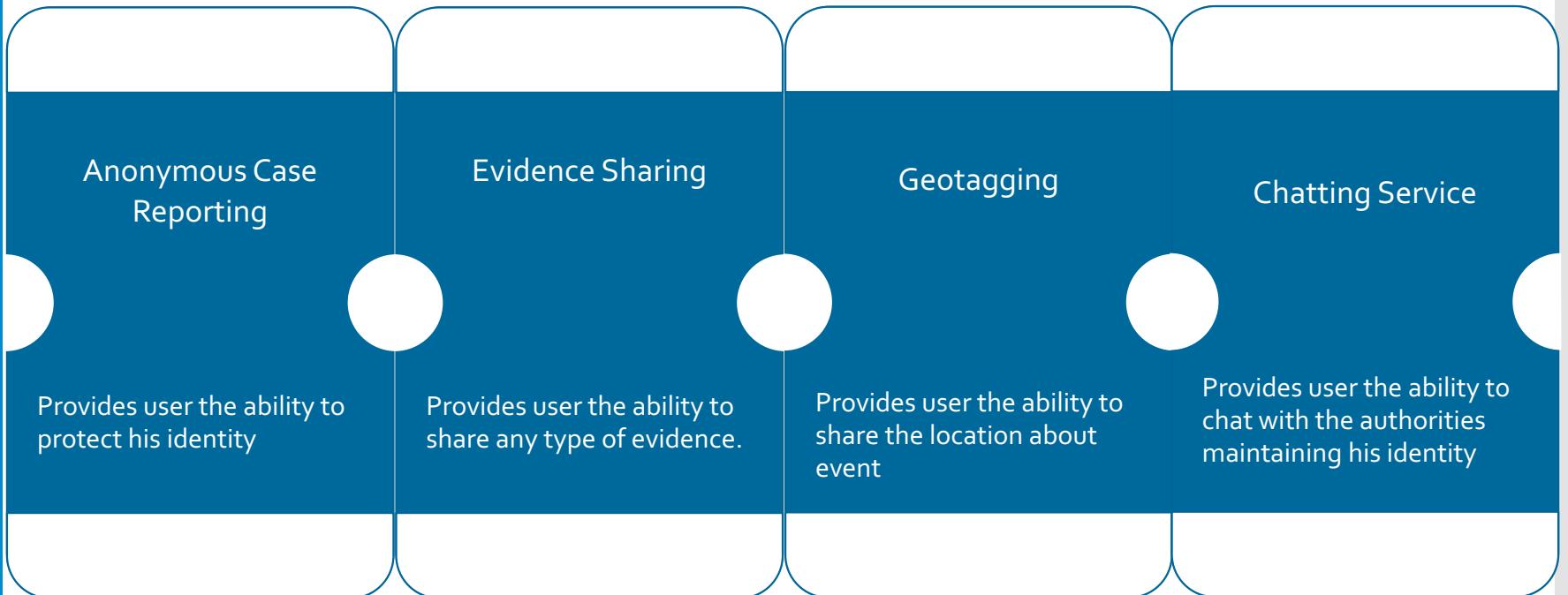
Firebase was used as backend service consisting of its Firestore database, authentication and storage.

Applications Developed



1. Flutter App for Whistleblowers - Case Reporting.
2. Flutter App for Investigators – Role Handling.
3. React Web App for Investigator Panel.

Key Features of Application



Figma Design

The screenshot displays the Figma design interface for a team project titled "WhistleIt".

Left Sidebar (Components):

- # iPhone 13 & 14 - 1
- Vector
- Assigned To: Devang Harsora
- Incident Date: 8/02/24
- Phone
- Location on
- Location: Vile Parle, Mumbai
- Report Details
- Username (Input)
- Frame
- Line 3
- Date range
- Vector
- Register (Button)
- Line 10
- Reported On: 17/02/2024
- Party Involved: XYZ
- Location: Vile Parle, Mumbai
- description about the case in abou...

Design View:

- Splash Screen: A blue screen with the "WhistleIt" logo.
- Login Screen: A form with fields for Email and Password, and links for "Forgot Password?", "Login", and "Don't have an account? Sign Up".
- Signup Screen: A form with fields for Username, Email, Password, Confirm password, and "Register" button. It also includes "Already have an account? Sign In" and "Continue Anonymously" buttons.
- Home Dashboard: A dashboard showing "Hello, Meet Chavan", "WhistleIt", and "Welcome to WhistleIt!". It displays statistics: 999 Cases Reported, 99 In Review, and 99 Completed. It also shows "Recently Reported" cases and a "Report on Issue" button.
- Add Report: A form for creating a new report with fields for Case Title, Case Description, Case Category, Date of Occurrence, Involved Party, and Location of Occurrence.
- Reports History: A list of reported cases, each with a "Case Title: Bribery Report" and a "IN REVIEW" status.
- Report Details: A detailed view of a bribery report titled "Case Title: Bribery Report". It shows the case description, category (Bribery), party involved (XYZ), date (8/02/24), location (Vile Parle, Mumbai), and a map of Mumbai with the incident location marked.

Right Sidebar (Tools and Options):

- Design, Prototype
- Page: 1E1E1E, 100%
- Local variables
- Local styles
- Export

Firebase Database

The screenshot shows the Firebase Cloud Firestore interface. The left sidebar has a navigation menu with icons for Home, Settings, Users, and a highlighted 'Data' tab. The main header says 'Cloud Firestore' and shows a dropdown for 'DevDynasty-BitNBuild'. The top bar includes standard browser controls and a lock icon for 'console.firebaseio.google.com'.

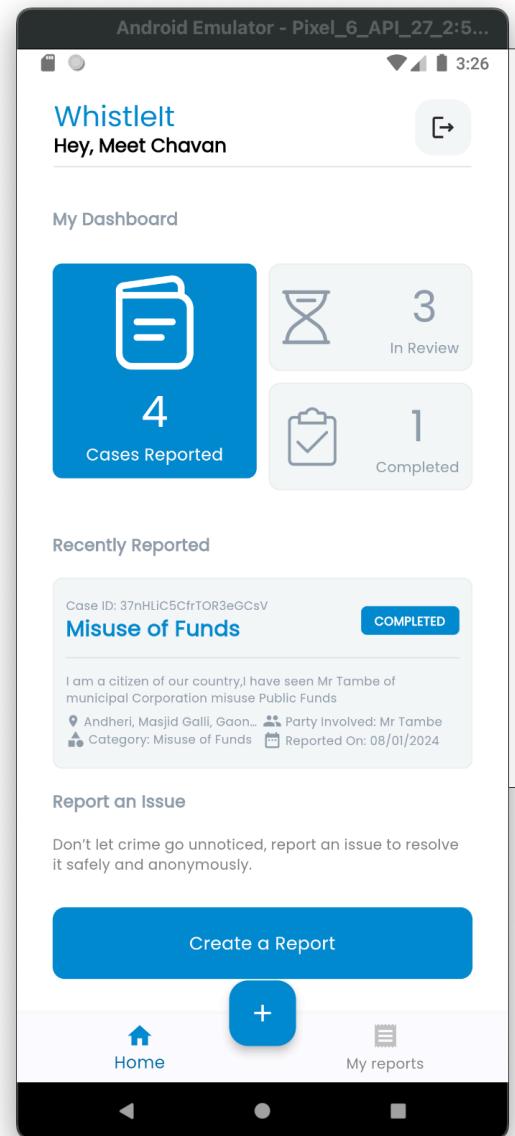
In the center, there's a warning message: 'Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing' with a shield icon, and a 'Configure App Check' button. Below this are 'Panel view' and 'Query builder' buttons.

The main area shows a hierarchical path: Home > cases > HqSLhMnuq1iPvAOGwIDX. On the right, there are buttons for 'More in Google Cloud' and a three-dot menu. The left sidebar shows collections: '(default)', 'cases' (selected), 'investigators', and 'users'. The 'cases' collection has documents: 37nHLic5CfrT0R3eGCsV, EzCGkL9bT0CqWY1pQNa, HqSLhMnuq1iPvAOGwIDX (selected), and XLQswmwYl3N6v0ORuse3.

The selected document 'HqSLhMnuq1iPvAOGwIDX' is expanded, showing fields:

- + Start collection: evidences
- + Add field:
 - assigned_to: ""
 - case_description: "A whistleblower reported suspected corruption in a recent public p"
 - case_id: "HqSLhMnuq1iPvAOGwIDX"
 - case_title: "Public Corruption"
 - category: "Abuse of Power"
 - contact_name: "DhruvMehta"
 - contact_phone: "9654801234"
 - created_time: February 18, 2024 at 1:45:42 PM UTC+5:30

WhistleBlower Application



Android Emulator - Pixel_6_API_27_2:5...

WhistleBl Create New Report

Case Title

Enter Case Title

Case Description

Enter Case Description

Case Category

Fraud

Date of Occurrence

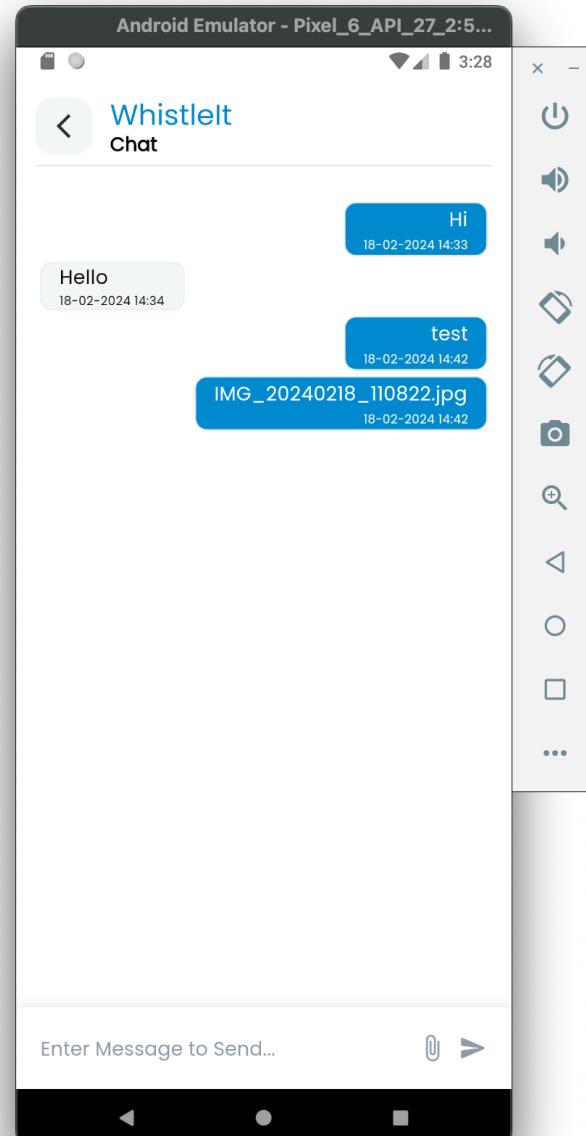
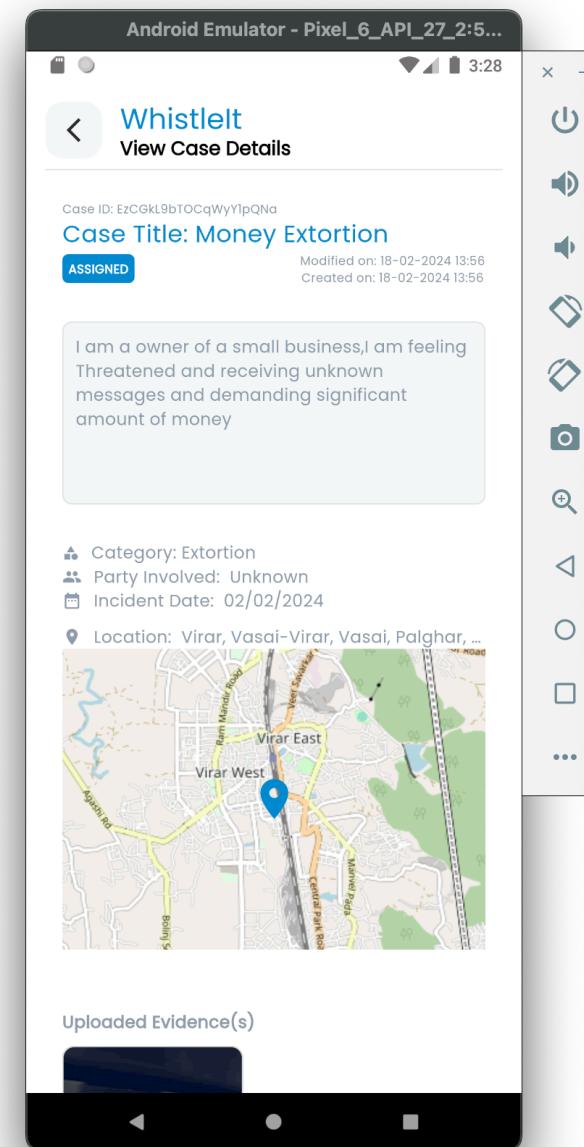
Choose Date of Occurrence

Involved Party

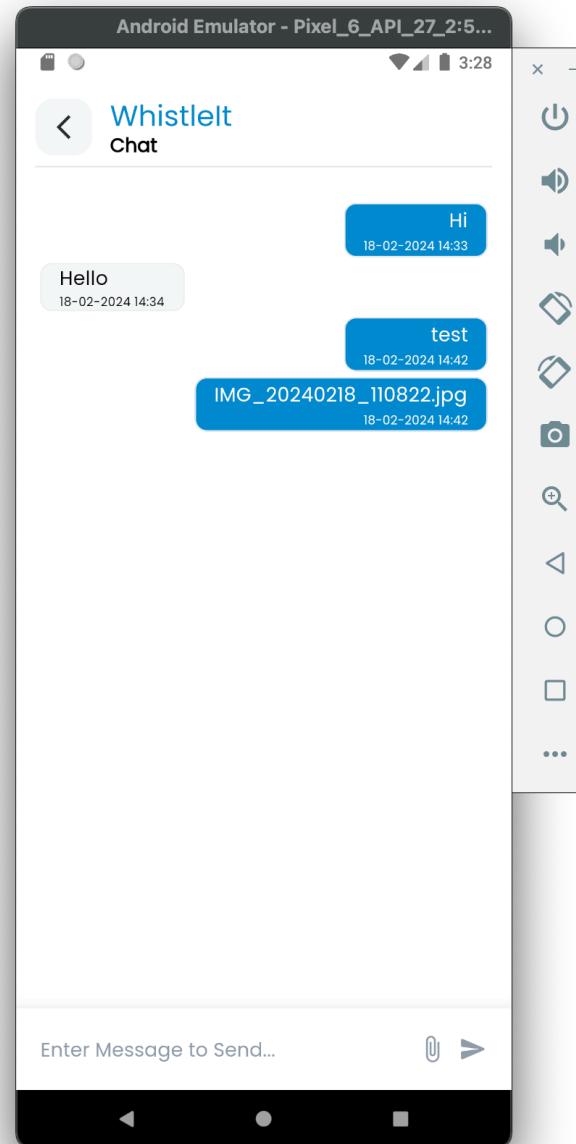
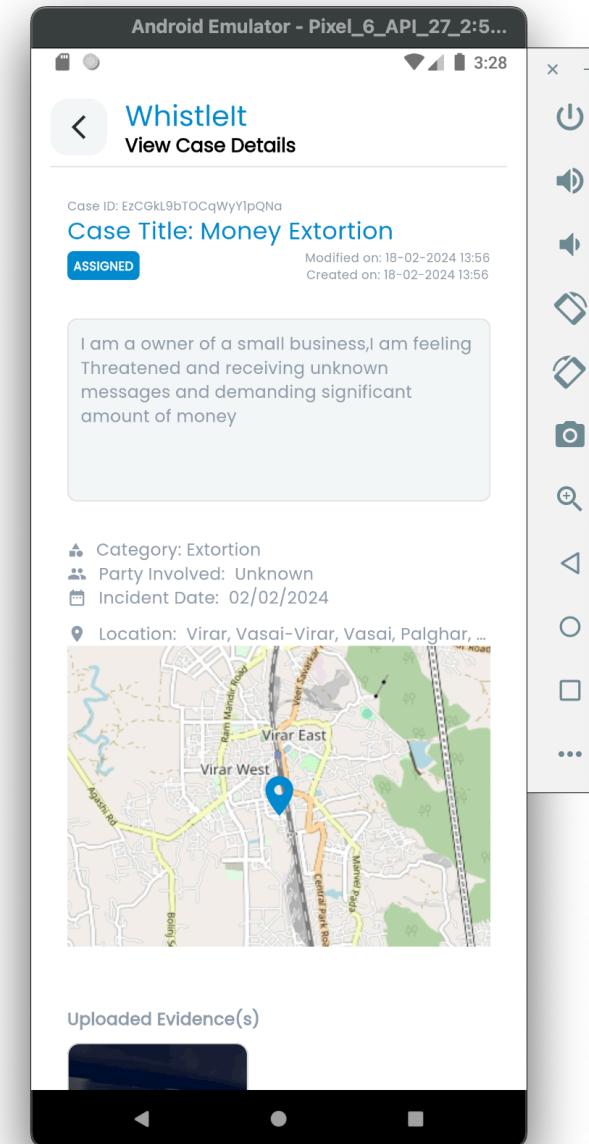
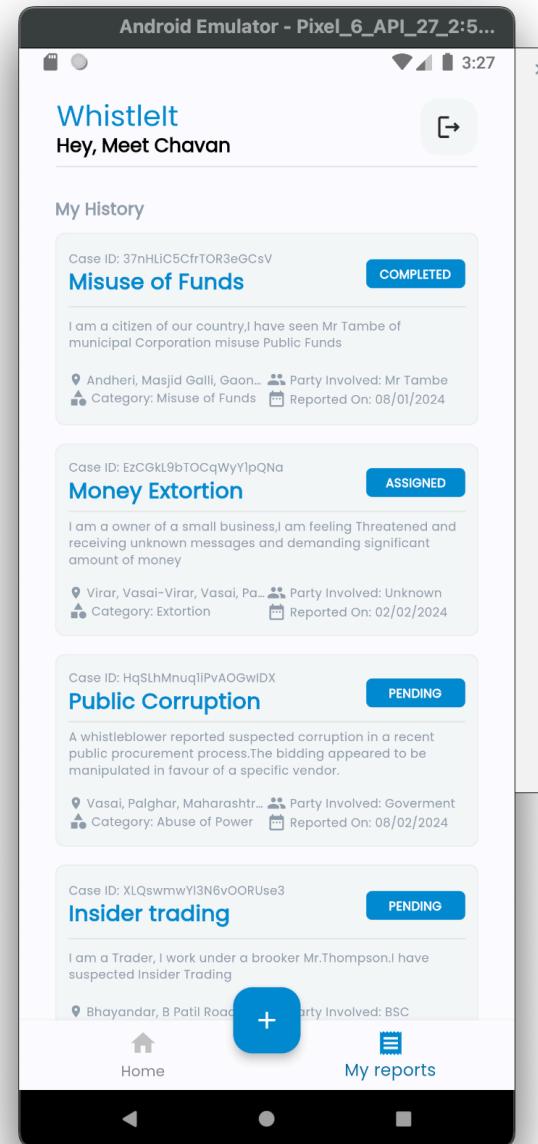
Enter Involved Party

Location of Occurrence

Submit Report



Investigator Application



Investigator Panel

Dashboard



Whistleblotter sidebar menu items include:

- Dashboard
- Total Cases
- Assigned Cases
- Pending Cases
- OnGoing Cases
- Completed Cases

Logout button at the bottom.

Total Cases

Case ID: #37nHLIC5CrTOR3eGCsV

Case Title: Misuse of Funds

Description: I am a citizen of our country, I have seen Mr Tambe of municipal Corporation misuse Public Funds

Location: Andheri, Masjid Galli, Gaondevi Dongri, K/W Ward, Zone 3, Mumbai, Mumbai Suburban, Maharashtra, 400058, India

Category: Misuse of Funds

Reported On: 18/02/2024, 14:03:06

Party Involved: Mr Tambe

Case ID: #EzCGkL9bTOCqWY1pQNa

Case Title: Money Extortion

Description: I am a owner of a small business, I am feeling Threatened and receiving unknown messages and demanding significant amount of money

Location: Virar, Vasai-Virar, Vasai, Palghar, Maharashtra, 401303, India

Category: Extortion

Reported On: 18/02/2024, 13:56:14

Party Involved: Unknown

Case ID: #hQSLhMnuq1iPvAOGwIDX

Case Title: Public Corruption

Description: A whistleblower reported suspected corruption in a recent public procurement process. The bidding appeared to be manipulated by a specific vendor.

Investigator Panel

Case ID: #37nHIC5CfrTOR3eGCsV

Case Title: Misuse of Funds

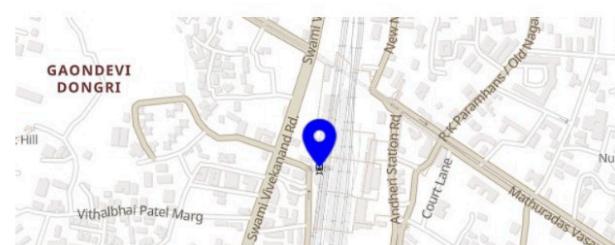
Modified on: 18/02/2024, 14:03:06
Created On: 18/02/2024, 14:03:06

Description: I am a citizen of our country,I have seen Mr Tambe of municipal Corporation misuse Public Funds

Category: Misuse of Funds Reported On: 18/02/2024, 14:03:06

Party Involved: Mr Tambe Assigned To: Meet

Location: Andheri, Masjid Galli, Gaondevi Dongri, K/W Ward, Zone 3, Mumbai, Mumbai Suburban, Maharashtra, 400058, India



Description: A whistleblower reported suspected corruption in a recent public procurement process. The bidding appeared to be manipulated in favour of a specific vendor.

Whistleblt

- Dashboard
- Total Cases
- Assigned Cases
- Pending Cases
- OnGoing Cases
- Completed Cases

Logout

Case ID: #37nHIC5CfrTOR3eGCsV

Case Title: Misuse of Funds

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Created On: 18/02/2024, 14:03:06

Location: Andheri, Masjid Galli, Gaondevi Dongri, K/W Ward, Zone 3, Mumbai, Mumbai Suburban, Maharashtra, 400058, India



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Contact Details:
MitaliShah, 8080890845

Uploaded Evidence(s)

images (1) (2).jpeg

Description: A whistleblower reported suspected corruption in a recent public procurement process. The bidding appeared to be manipulated in favour of a specific vendor.

THANK YOU!