FEMZO

A

Project Report

Submitted in partial fulfilment of the

Requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

K.KRISHNA (1602-19-737-077)

KALERU RUSHITHA (1602-19-737-090)

UVRAJANA SNEHA (1602-19-737-107)

Under guidance of

HASEEBA YASEEN

Professor

Department of Information Technology

Vasavi College of Engineering (Autonomous)

(Affiliated to Osmania University) Ibrahimbagh,

Hyderabad-31 2021-2022 Vasavi College of Engineering (Autonomous)

DECLARATION BY THE CANDIDATES

We, **K.KRISHNA , KALERU RUSHITHA,UVRAJANA SNEHA** bearing hall ticket numbers, **1602-19-737-077, 1602-19-737-090, 1602-19-737-107** hereby declare that the project report entitled "**FEMZO**" under the guidance of **Haseeba Yaseen** Mam, Department of Information Technology, Vasavi College of Engineering, Hyderabad, is submitted in partial fulfilment of the requirement of MINI PROJECT of V semester of **Bachelor of Engineering in Information Technology**.

This is a record of bonafide work carried out by us and the results embodied in this project report have not been submitted to any other university or institute for the award of any other degree or diploma.

K.KRISHNA:1602-19-737-077

K.RUSHITHA: 1602-19-737-090

U.SNEHA: 1602-19-737-107

Vasavi College of Engineering (Autonomous)

(Affiliated to Osmania University) Ibrahimbagh, Hyderabad-31
Department of Information Technology

BONAFIDE CERTIFICATE

This is to certify that the project entitled " **FEMZO**" being submitted by , **K.KRISHNA, KALERU RUSHITHA,UVRAJANA SNEHA** bearing **1602-19-737-077, 1602-19-737-090, 1602-19-737-107** in partial fulfilment of the requirements for the completion of MINI PROJECT of Bachelor of Engineering in Information Technology is a record of bonafide work carried out by them under my guidance.

Internal Guide

HASSEBA YASEEN

Dr. K. RAM MOHAN RAO

HOD, IT

ACKNOWLEDGEMENT

The satisfaction that accompanies that the successful completion of the project would not have been possible without the kind support and help of many individuals. We would like to extend my sincere thanks to all of them. We would like to take the opportunity to express our humble gratitude **HASEEBA YASEEN Mam**(Professor) under whom we executed this project. We would also use this opportunity to thank our Head Of Department Dr. K.Ram Mohan Rao. We would also like to thank all faculty members and staff of the Department of Information Technology for their generous help in various ways for the completion of this project.

Finally, we would like to express our heartfelt thanks to our senior **Benitha Tripuraneni (1602-18-737-014)**. We are grateful to her guidance, and constructive suggestions that helped us in the preparation of this project. Her constant guidance and willingness to share her vast knowledge made us understand this project and its manifestations in great depths and helped us to complete the assigned tasks.

ABSTRACT

The safety of women is a concern of increasing urgency in all the countries across the world. The primary issue in the handling of these cases by the police lies in constraints preventing them from responding quickly to calls of distress. These constraints include not knowing the location of the crime, and not knowing the crime is occurring at all: at the victim's end, reaching the police assuredly and discreetly is a challenge. The atrocities against the women can be brought to an end with the help of our product "**FEMZO**". This device is a security system, specially designed for women in distress.Our product basically helps the victim to file a complaint and immediately she will be assisted by the organizations. To verify the gender of the user the system inquires them to upload any Government Identity Proof. Also, on an emergency note the victim can have a conversation with the organization. Users can list out all the tactics shown in the website, which will be helpful for them in uncertain times. They can locate the help centres and can get the details of them. Chat feature is provided in the system for user's queries with the organization. The system consists of this special feature where the user can enter the destination and it will predict and will intimate whether the place is safe or not. Once the victim files the complaint a confirmation message will sent to the victim's registered email address.

Table of Contents

CHAPTER 1

INTRODUCTION

Femzo is a web application which we have developed to provide a platform for women/girls who get threating calls and face physicals and mental abuses in day-to-day life and social media. Our project helps them to approach the nearby help centres and she teams in case of emergency. The victims can file a complaint to resolve their issue, this whole process happens without the victim's name unrevealed.

1.1 Motivation

A Woman is not much powerful when compared to men physically, in a crisis situation and needs a helping hand to relieve them. The best way to minimize chances in becoming a victim of violent crime (robbery, sexual assault, rape, domestic violence) is to identify and call on resources to help you out of unsafe situations. Whether you are in instant trouble or got separated from friends during night and do not know how to get home, having this website **"FEMZO"** on your phone can diminish your risk and bring assistance when you require it.

A swarm of new websites have been developed to provide security systems to women on their phones. Here, we introduce FEMZO that ensures the safety of women. It reduces the risk and helps us in need by identifying the details of person who is in danger. We ensure the fastest safety measures are provided to rescue her.

1.2 Problem Statement

Women are accomplished at mobilizing diverse groups for frequent causes. They often work across racial, sacred, opinionated, and intellectual divides on basis of sexual mental and physical harassment. We are aware of importance of women's security, but we must recognize that they should be well secured and saved from abusive situations. This problem should be considered as a serious issue and where it can strengthen them to travel anywhere at anytime and complaint about the accused.

1.3 Project Objectives

Most Of the girls fear of confronting the abuses, threats which they go through endlessly. So this project provides a number of solutions to it:

- ➔ Empower them by giving the outline to face the problems.
- ➔ Encouraging them to address their issues.
- ➔ Immediate actions on the accused will be taken by not revealing the identity of the victim by the women safety organizations.
- ➔ Suggesting whether the destination place is safe or not before hand .
- ➔ Women abuse is halted.

CHAPTER 2

Technical Literature

https://ieeexplore.ieee.org/document/7373171

The Women Safety App 'WOSAPP' is the first mobile application launched targeting the female citizens for their utmost protection and security. This application provides women with a reliable way to place an emergency call to the police. The user can easily and discreetly trigger the calling function by shaking her phone, or by explicitly interacting with the user interface of the application via a simple press of a PANIC button on the screen.

This was basically a hardware based app ,after seeing this we developed this idea of 'Femzo' . This includes the feature of sending location to the emergency contacts, rather than to the police station.

Areas our project can be improved in:

An efficient platform to punish the accused irrespective of their age.

Generally, girls fear to travel at night and this is the major area which should be looked at in the project.

Also, many of them don't want to reveal their identity by choice, these details must be kept more confidential.

Alarms can be included when the user is in trouble or unsafe and this can be sent to the nearest police stations.

If the user is an unsafe situation on a single click photos and instant location should be sent to the emergency contacts

CHAPTER 3

Existing Method/System

3.1 Existing Apps:

WOMEN'S SECURITY: This app is developed by AppSoftIndia. The key features of the app are: the user has to save some details. These details include: Email address and password of the user, Email address and mobile number of the recipient and a text message. . The user can easily and discreetly trigger the calling function by shaking her phone, or by explicitly interacting with the user interface of the application via a simple press of a PANIC button on the screen.

The Smart24x7 app is supported by the various states' police just to ensure the safety of women and senior citizens. The app sends panic alerts to emergency contacts in a problematic situation. It also records voices and also takes photographs during the panic situation and transfers these to the police as well

3.2 Drawbacks

- Safe location is done only on few places across India ,but should be identified on all places across India .
- If the mentioned place is not safe application doesnot show top safest places

CHAPTER 4

Proposed System

4.1 System Requirements and Specifications

4.1.1 Software Specifications

- **VISUAL STUDIO CODE 1.63:**

Visual Studio Code is a source-code editor made by Microsoft for Windows, Linux and macOS.[9] Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality..

- **INTERPRETER:**

Visual Studio Code- It features a lightning-fast source code editor, perfect for day-to-day use. With support for hundreds of languages, VS Code helps you be instantly productive with syntax highlighting, bracket-matching, auto indentation, box-selection, snippets, and more.

- **PYTHON-DJANGO:**

Django Framework:

Django is a Python-based free and open-source web framework that follows the model–template–views (MTV) architectural pattern. Django's primary goal is to ease the creation of complex, database-driven websites. The framework emphasizes reusability and "pluggability" of components, less code, low coupling, rapid development, and the principle of don't repeat yourself.[9] Python is used throughout, even for settings, files, and data models. Django also provides an optional administrative create, read, update and delete interface that is generated dynamically through introspection and configured via admin models.

- **BOOTSTRAP- WEB DESIGNING:**

Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.

4.1.2 Functional Requirements

R1 User Registration

R 1.1 The Femzo Application allows the user to enter the login credentials and validates them.

R 1.2 The user can now access all the modules like Complaint form ,safe location prediction and can chat with help centres if the credentials are valid.

R 1.3 Once the user fills the complaint form , all the details of the victim will be sent to the organization .

R 1.4 The user can enter the details of the place and can know whether the place is safe or not.

R 1.5 Also, profile will be updated to the user logged in and can keep track of the complaints she/he filed.

R 1.6 The user can check out the police station details by sharing the police station address.

R2 Un-Registered User

R 2.1 The Un-Registered User can only check the tactics page which gives the details of self-defence and related blogs.

R2.2 Also, they can find out the safe place by giving the location and similarly police details.

R3 Data Update by Admin

List of Police station details information management

R3.1.1 Add new police station .

R3.1.3 Displaying details of them

.

R4 Organization Registration

R4.1 The organization have to login to the website or sign in .

R 4.2 They can take up the cases of the victims which will be displayed in the profile if the credentials are valid.

R 4.3 The organization can directly conversate with the victim.

4.1.3 Non-Functional Requirements

R5 Security.

The security requirements are concerned with security and privacy issues. All users information is required by law to be kept private

R 5.1 The Femzo Application shall support different user access privileges.

R 5.2 The Femzo Application shall protect every user's information.

R6. Maintainability

The maintainability requirements are concerned with the maintenance issues of the system.

R 6.1 The maintenance time of Femzo Application shall be done regularly.

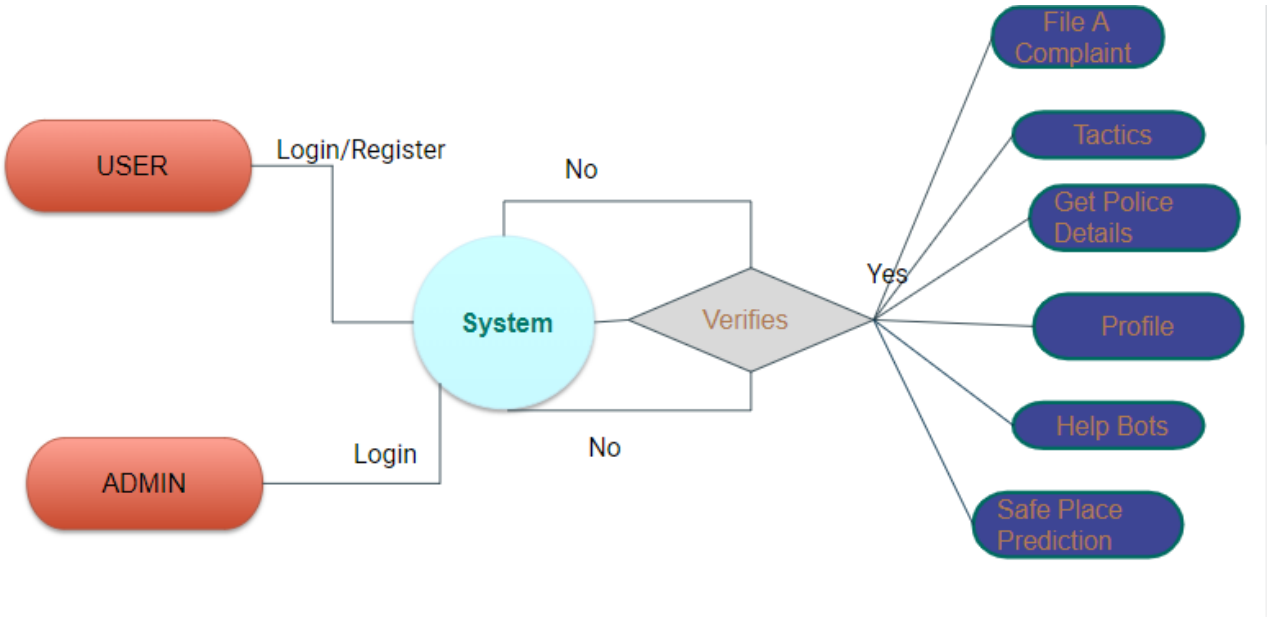
R 6.2 System down time for maintenance should be less than 6 hours per quarter of a year.

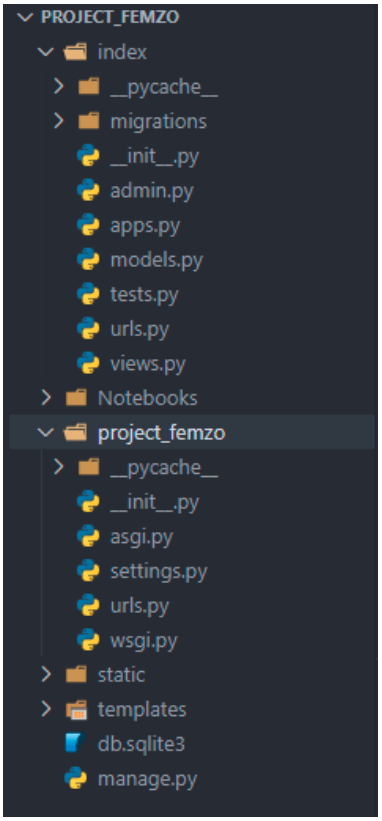
R7. Scalability

The scalability requirements are concerned with the scalable issues of the system.

R 7.1 The Femzo Application shall be able to scale up to support more workstations. System performance shall not degrade if up to twenty percent (20%) more workstations are added.

4.2 Architecture





CHAPTER 5

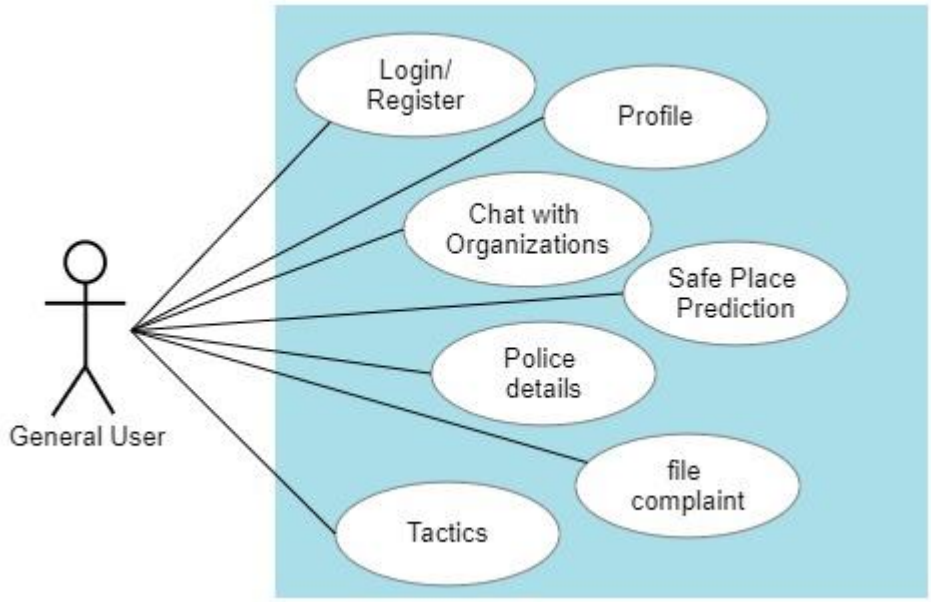
Design

5.1 UML diagrams / UX diagrams

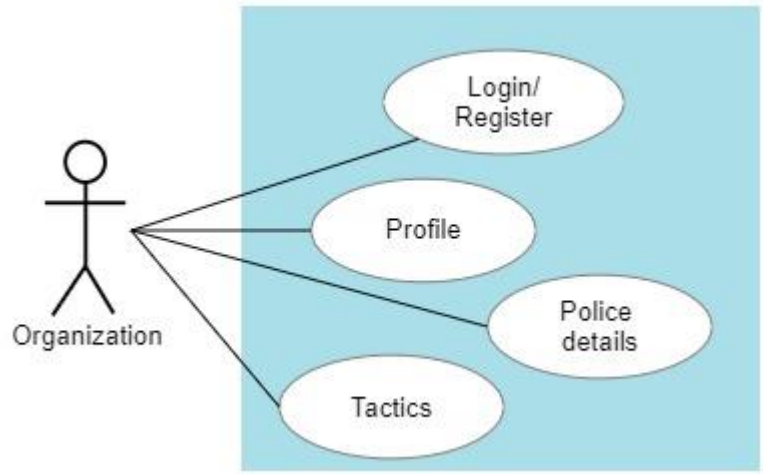
5.1.1 **USE CASE DIAGRAM** :

Use case diagrams are the diagrammatic representations depicting users' interactions with the system. This diagram shows different types of users and various ways in which these users interact with the system.

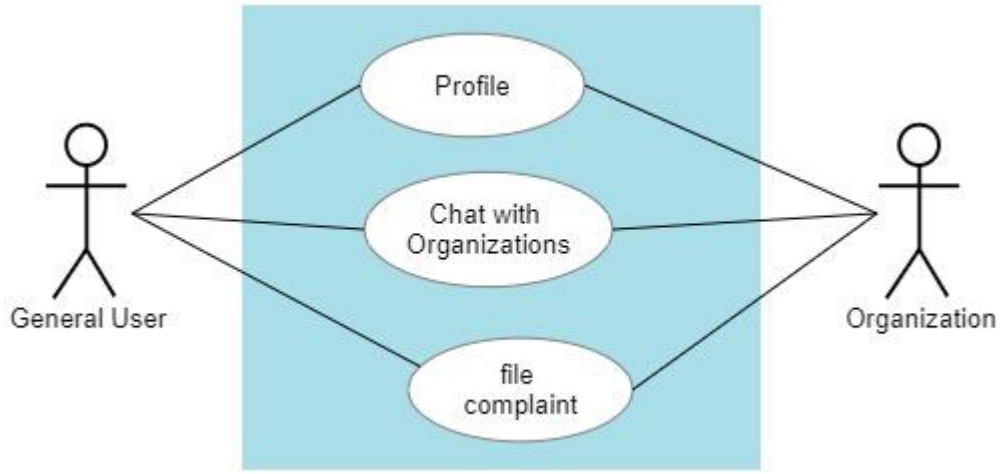
Registered User:



Organization:

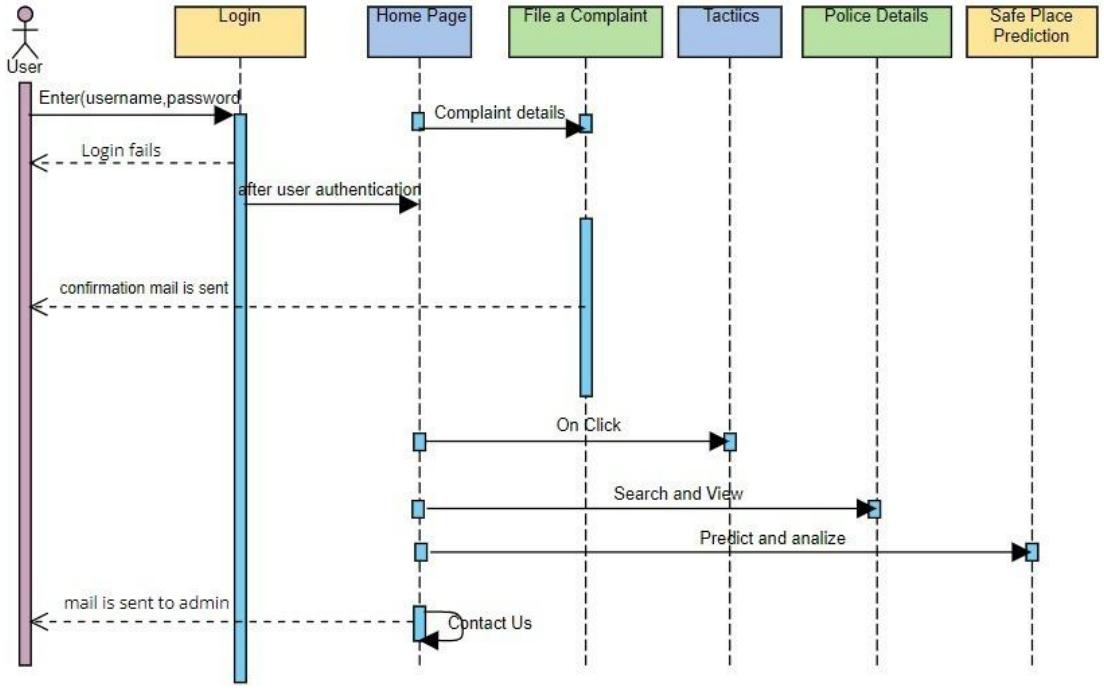


Registered User with Organization :



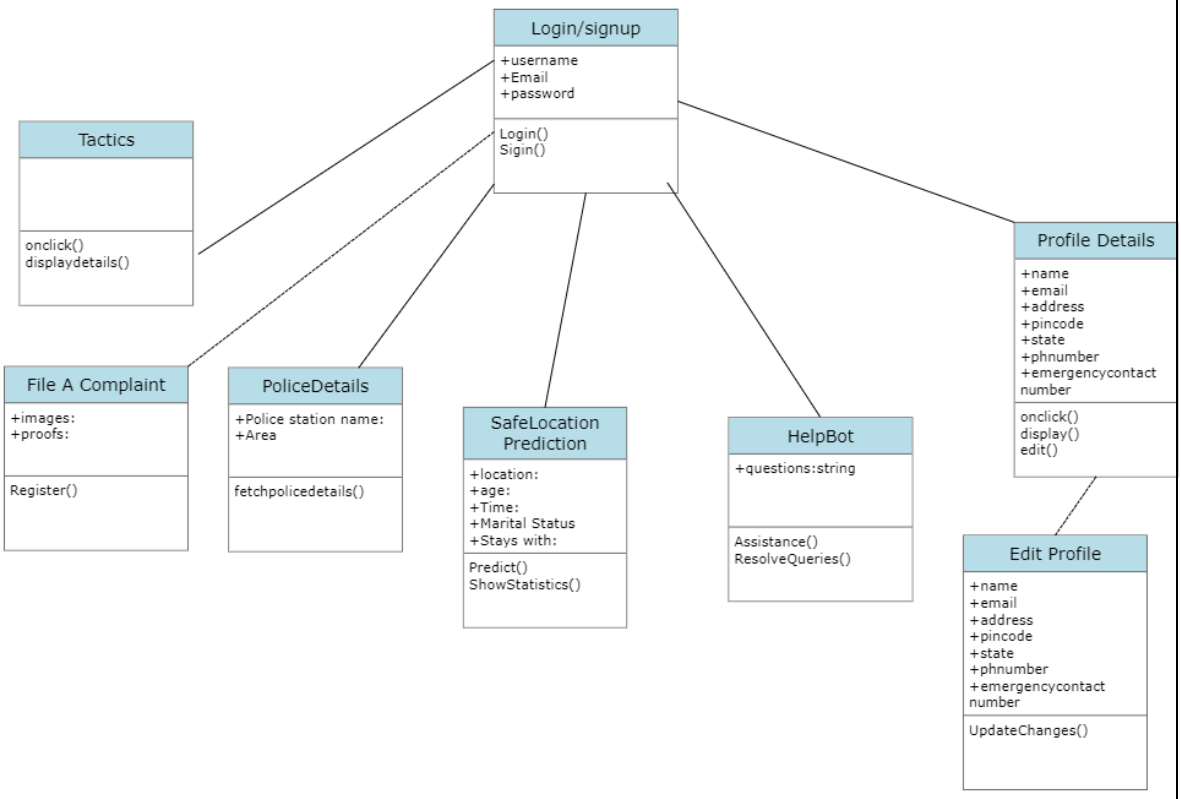
5.1.2 Sequence Diagram:

A sequence diagram simply depicts interaction between objects in a sequential order i.e., the order in which these interactions take place. We can also use the terms event diagrams or event scenarios to refer to a sequence diagram. Sequence diagrams describe how and in what order the objects in a system function

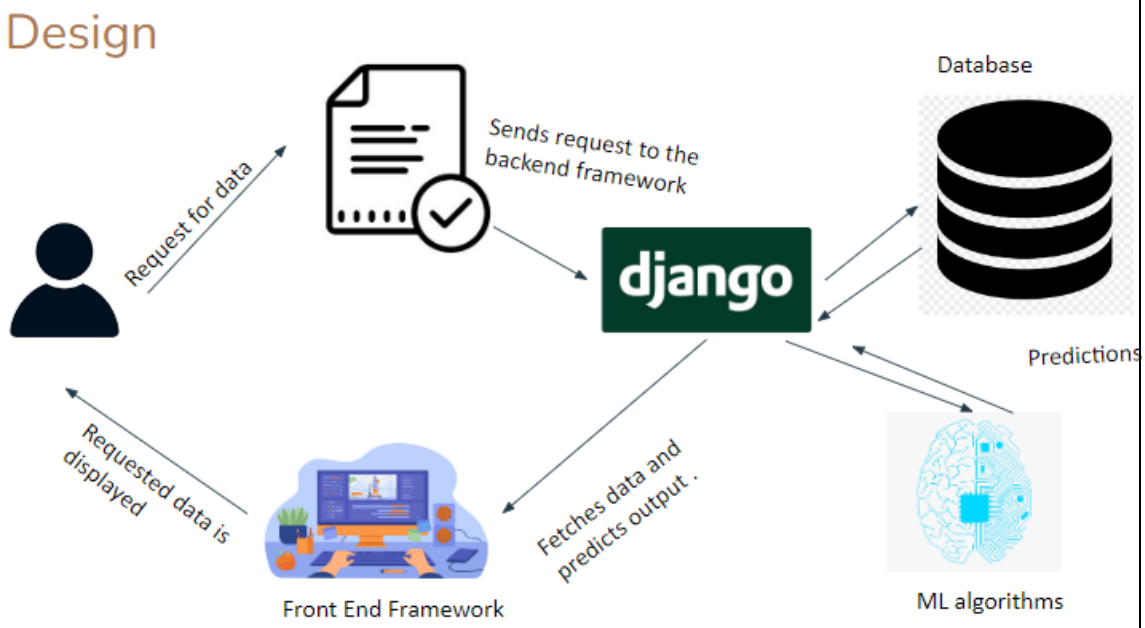


5.1.3 Class Diagram:

Class diagram is a static diagram. It represents the static view of an application.


Login/signup
+username
+Email
+password
Login()
Sigin()
Tactics
onclick()
displaydetails()
Profile Details
+name
+email
+address
+pincode
+state
+phnumber
+emergencycontact number
onclick()
display()
edit()
File A Complaint
+images:
+proofs:
Register()
PoliceDetails
+Police station name:
+Area
fetchpolicedetails()
SafeLocation Prediction
+location:
+age:
+Time:
+Marital Status
+Stays with:
Predict()
ShowStatistics()
HelpBot
+questions:string
Assistance()
ResolveQueries()
Edit Profile
+name
+email
+address
+pincode
+state
+phnumber
+emergencycontact number
UpdateChanges()

Design:


Design
Database
Sends request to the backend framework
Request for data
django
Predictions
Requested data is displayed
Fetches data and predicts output .
Front End Framework
ML algorithms

5.2 Database schema

Profile:
User(One-to-One), cid number, username, email, mobile, emergency contact details

ProfileDetails:
User(One-to-One relation)

EmergencyContacts :
User(One-to-One), phnumber, holdersname

ContactUs:
name,email,mssg,subject

Complaint:
cid(Primary
key),user_name,victims_fname,victims_lname,contact_no,email,location,subject,idproof,idpr
oofno,vedio,image,mssg,gender

PoliceDetails:
psname, address ,psemail, psnumber

Organization:
Orgname, phone number, address, complaints solved ,complaints pending,summary images.

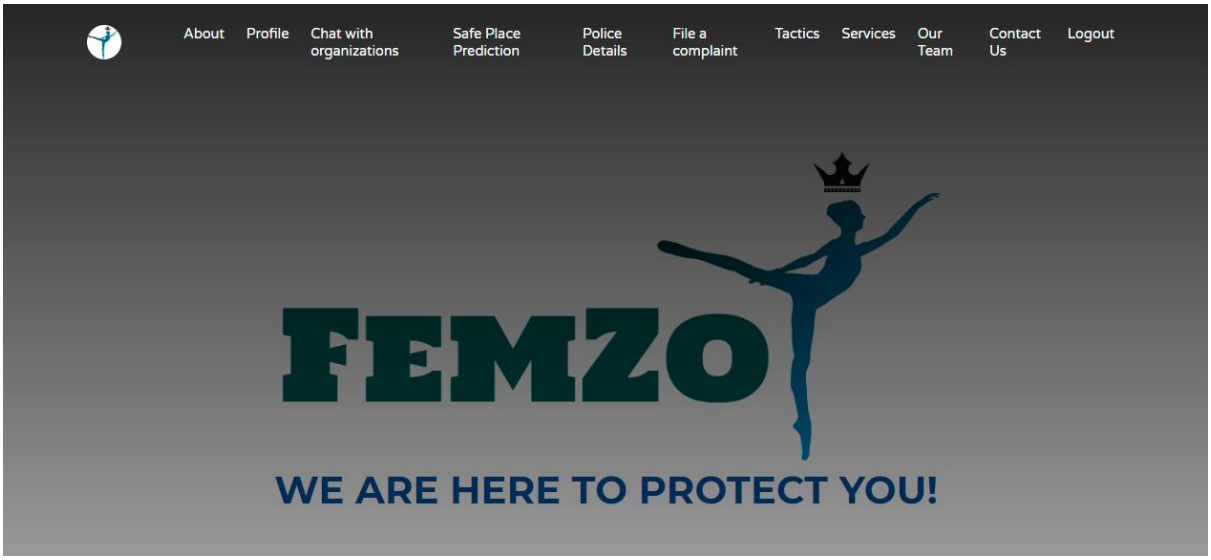
CHAPTER 6

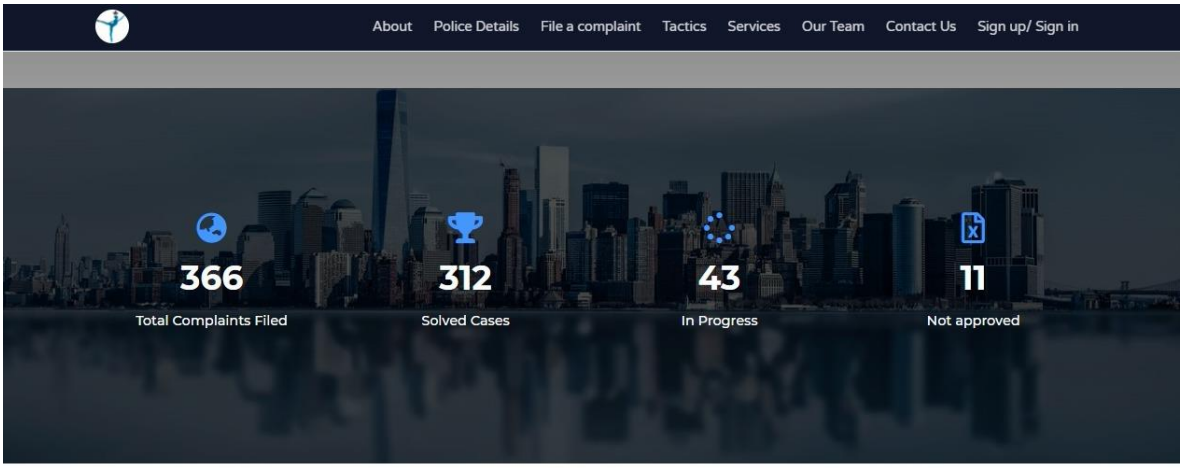
Implementation and Testing

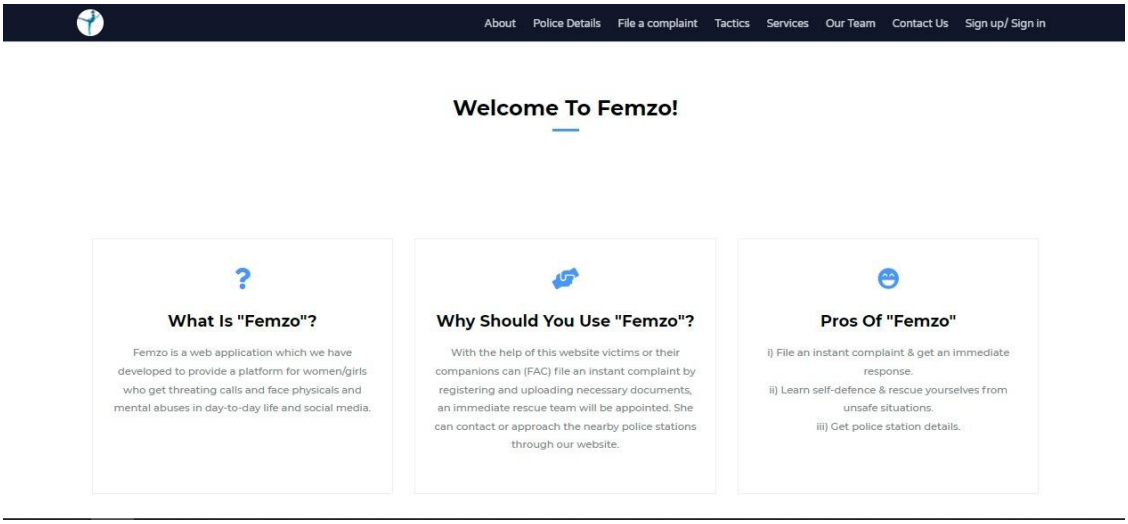
6.1 Screenshots and Test cases

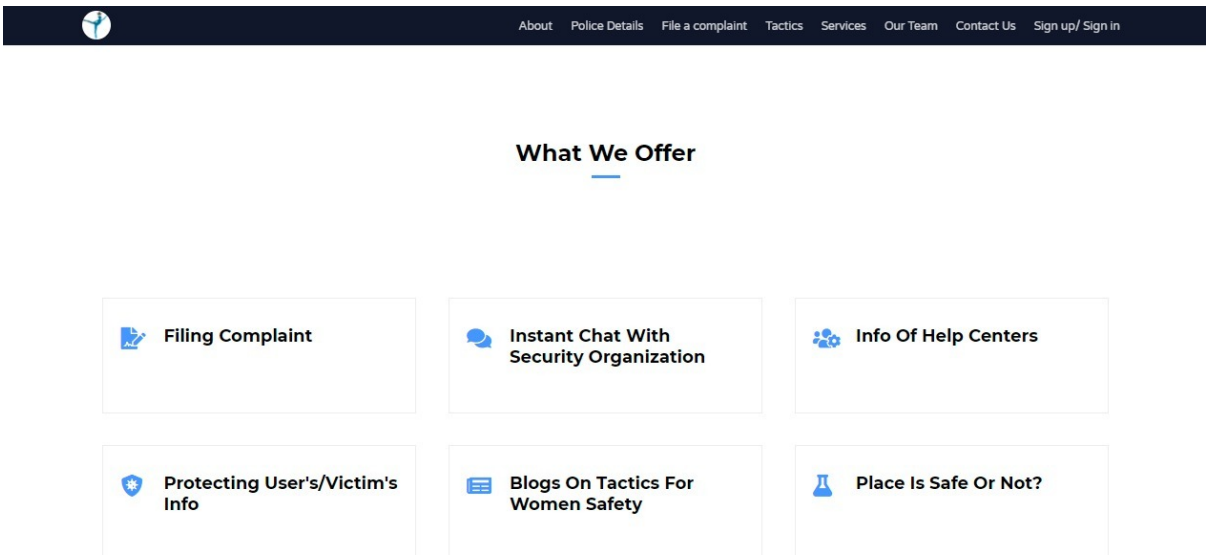
Home Page:

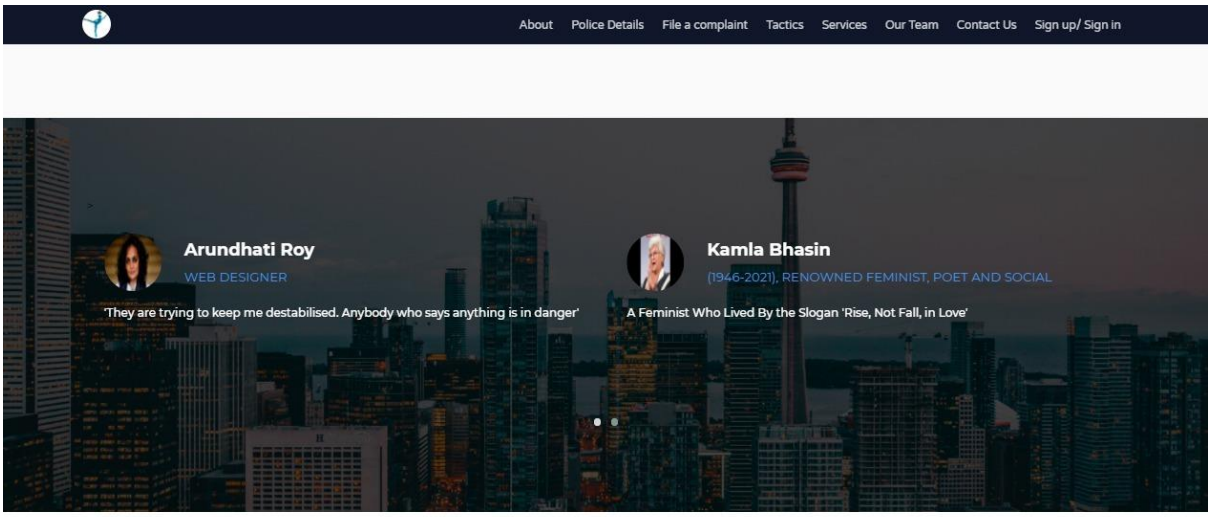
'FEMZO' application includes modules like About, FAC, Tactics, Services, Profile, CAO.SPP

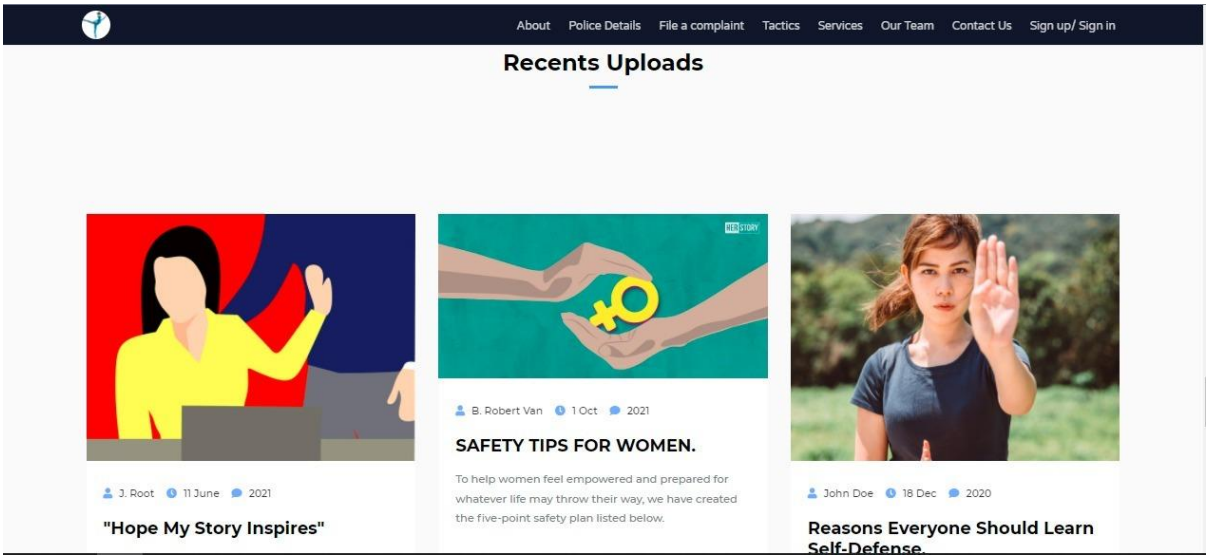




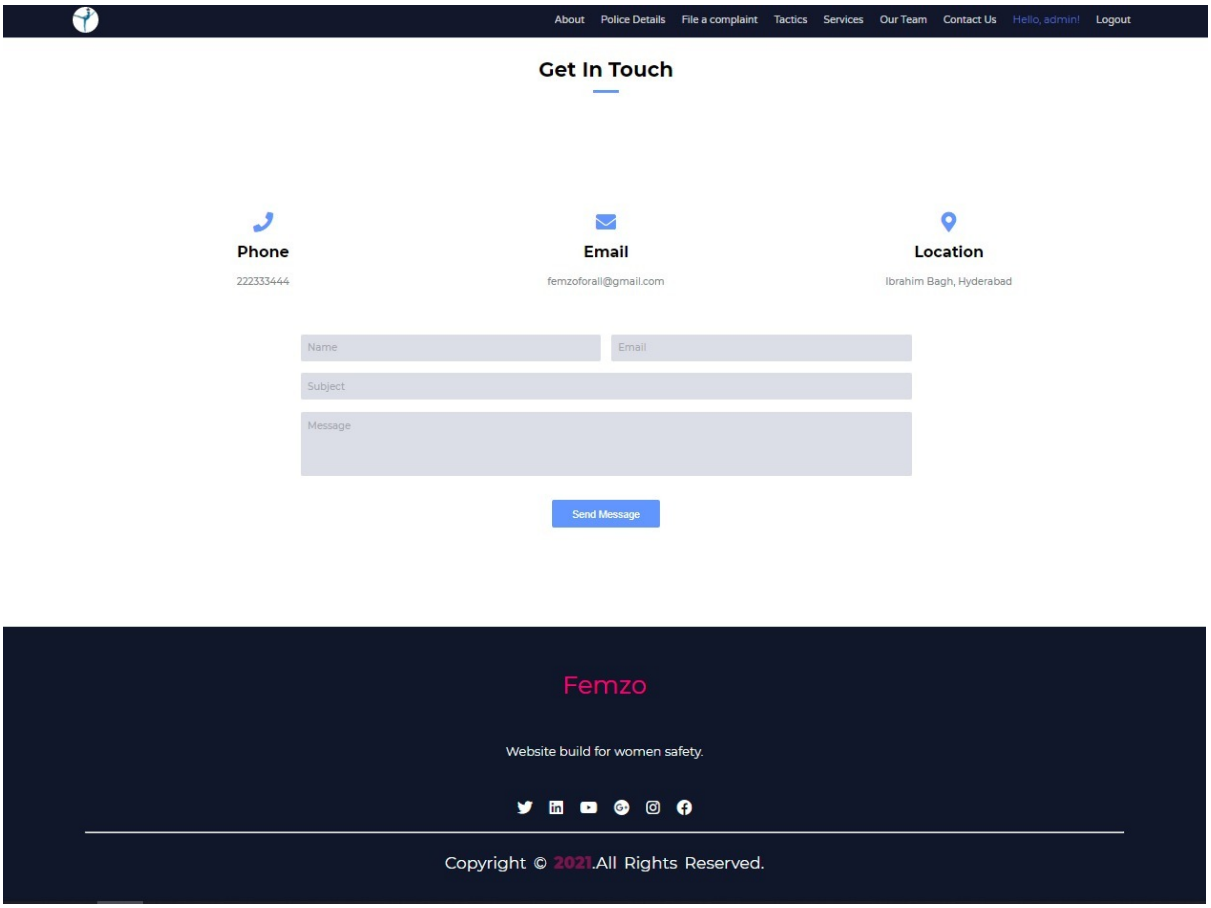

About
Police Details
File a complaint
Tactics
Services
Our Team
Contact Us
Sign up/ Sign in
Welcome To Femzo!
What Is "Femzo"?
Femzo is a web application which we have developed to provide a platform for women/girls who get threating calls and face physicals and mental abuses in day-to-day life and social media.
Why Should You Use "Femzo"?
With the help of this website victims or their companions can (FAC) file an instant complaint by registering and uploading necessary documents, an immediate rescue team will be appointed. She can contact or approach the nearby police stations through our website.
Pros Of "Femzo"
i) File an instant complaint & get an immediate response.
ii) Learn self-defence & rescue yourselves from unsafe situations.
iii) Get police station details.


About
Police Details
File a complaint
Tactics
Services
Our Team
Contact Us
Sign up/ Sign in
What We Offer
Filing Complaint
Instant Chat With Security Organization
Info Of Help Centers
Protecting User's/Victim's Info
Blogs On Tactics For Women Safety
Place Is Safe Or Not?


About
Police Details
File a complaint
Tactics
Services
Our Team
Contact Us
Sign up/ Sign in
Arundhati Roy
WEB DESIGNER
'They are trying to keep me destabilised. Anybody who says anything is in danger'
Kamla Bhasin
(1946-2021), RENOWNED FEMINIST, POET AND SOCIAL
A Feminist Who Lived By the Slogan 'Rise, Not Fall, in Love'



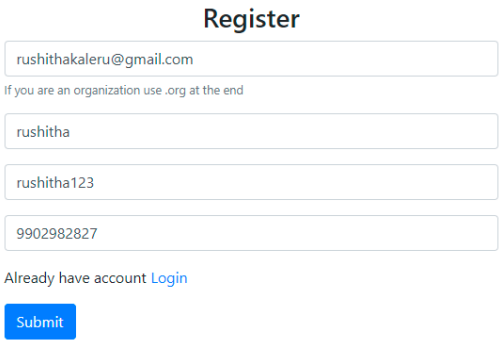
- At the footer a Contact Page is available to send an email to femzo admin to resolve queries and to resolve issue



Login/SignUp:

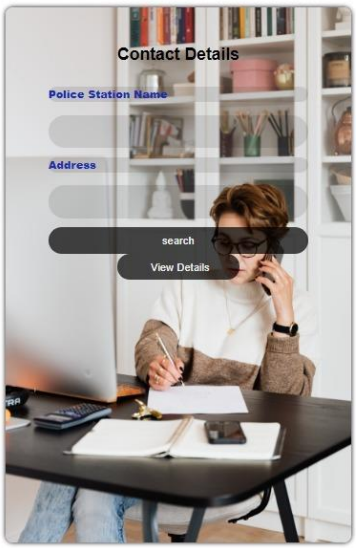
At the time of Login the user or the organization should use their respective credentials like user:ruhsithakaleru@gmail.com

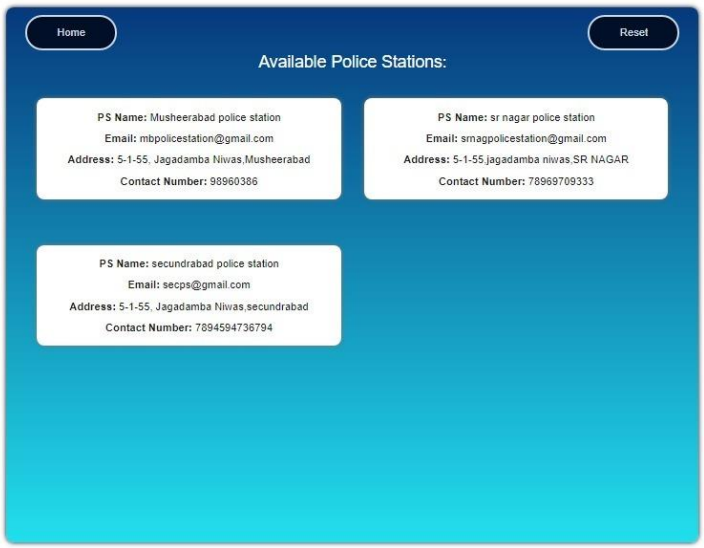
Organization: womenservice@atu.org



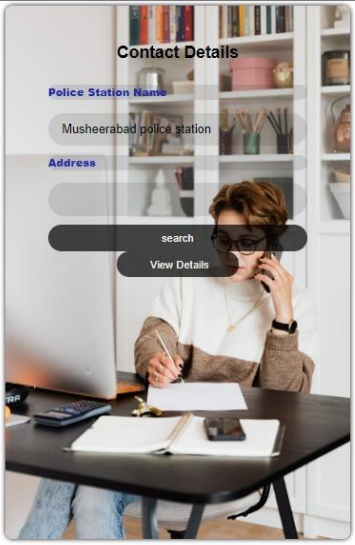
Police Details:

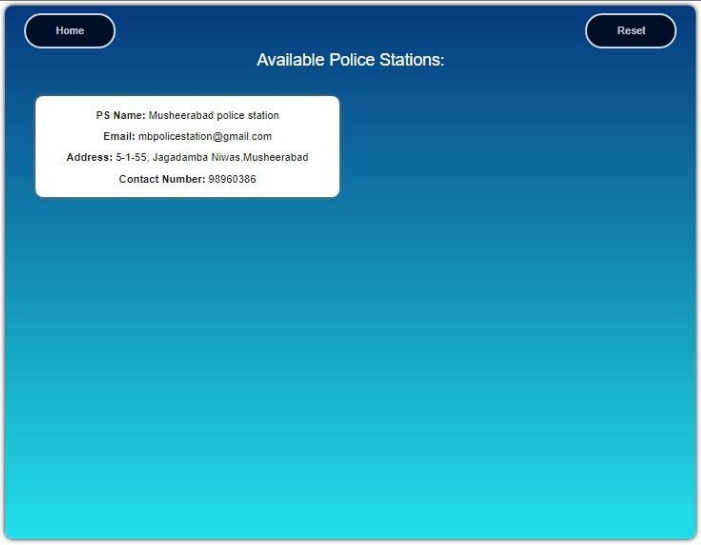
On entering the ps name and place. All the details of the police station are displayed.



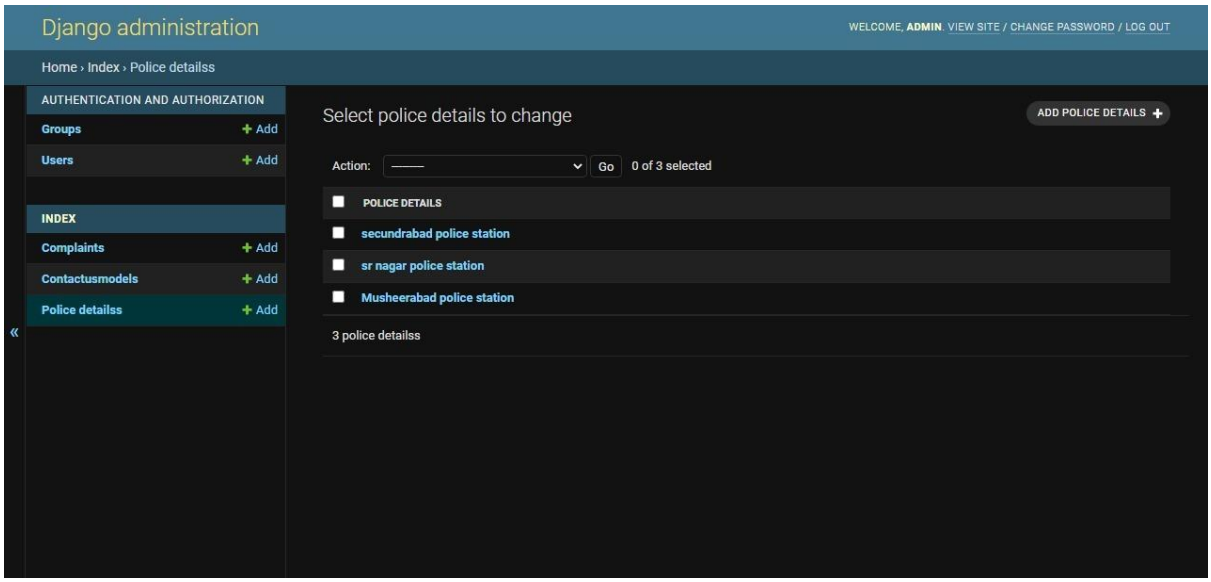


Search-



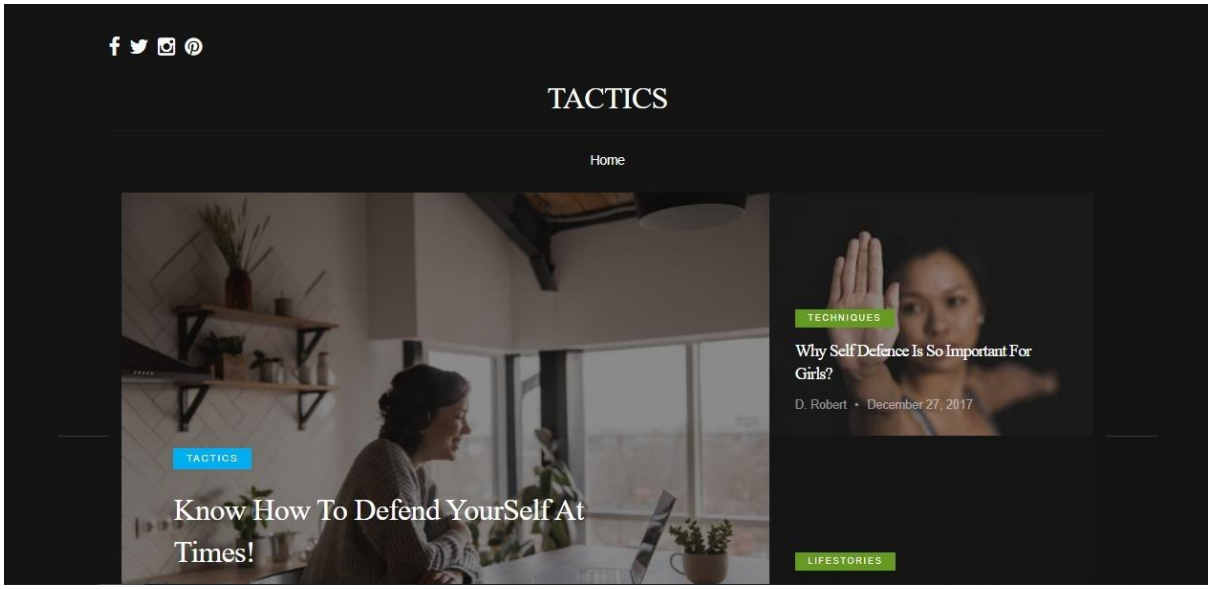


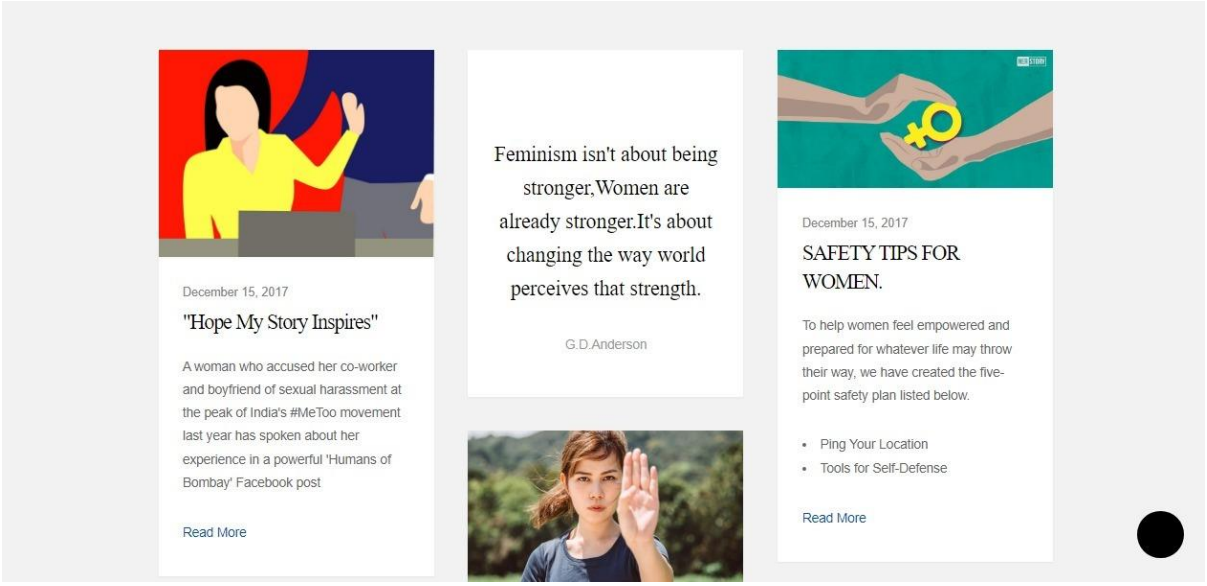
DATA BASE FORMAT Of Police stations:



Tactics :

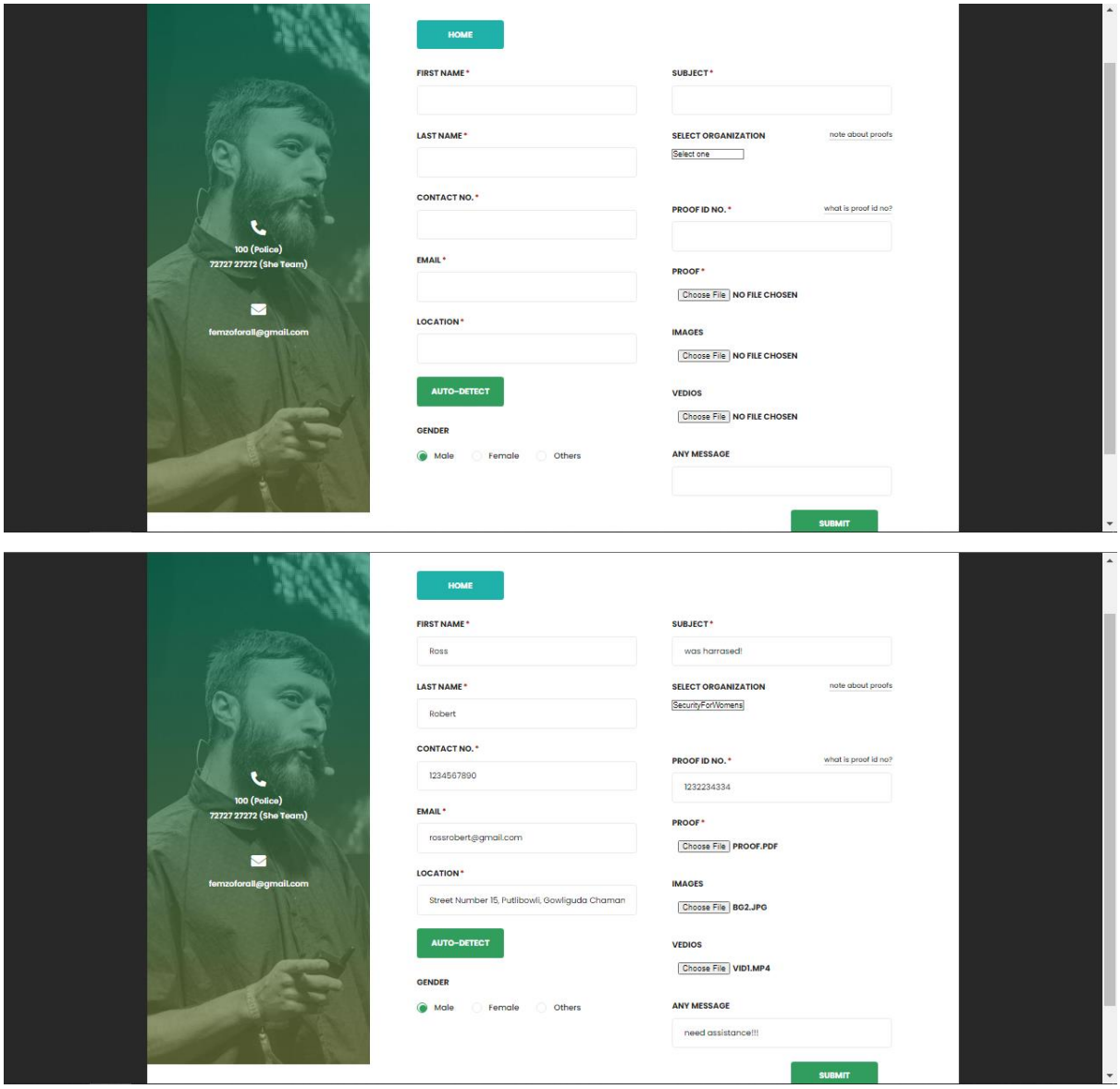
Blogs of the women harassment warriors and leaders are displayed to motivate and guide the users and also self defence techniques are mentioned.





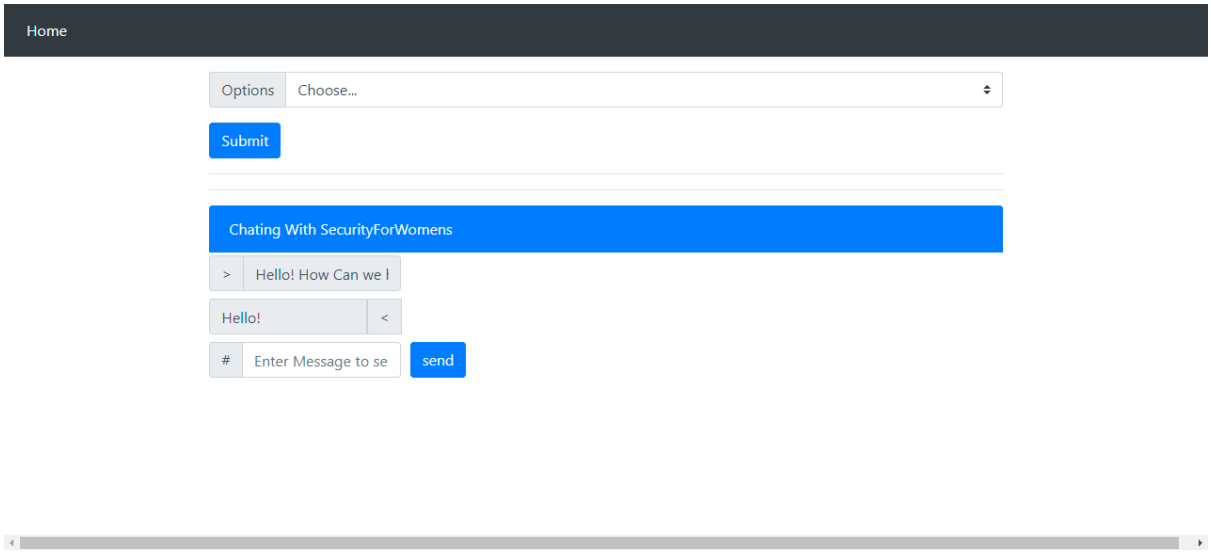
File A Complaint:

This feature allows users to file a complaint on the accused without revealing her identity she get justice through this website



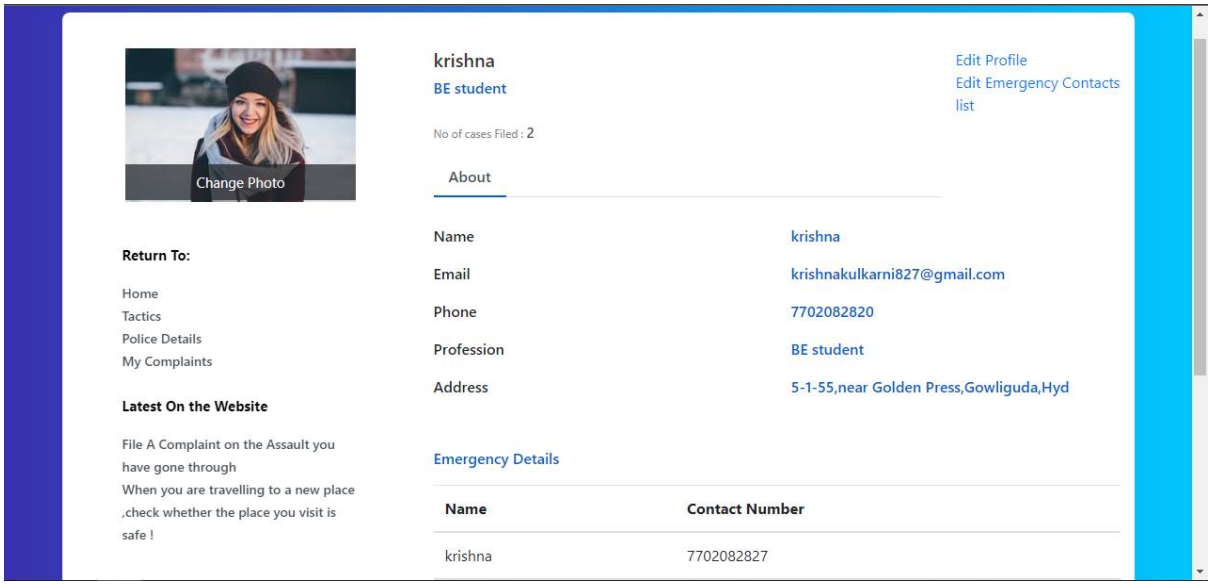
Chat With Organization:

The user can communicate with the organization at any time for any queries and to resolve her issues.



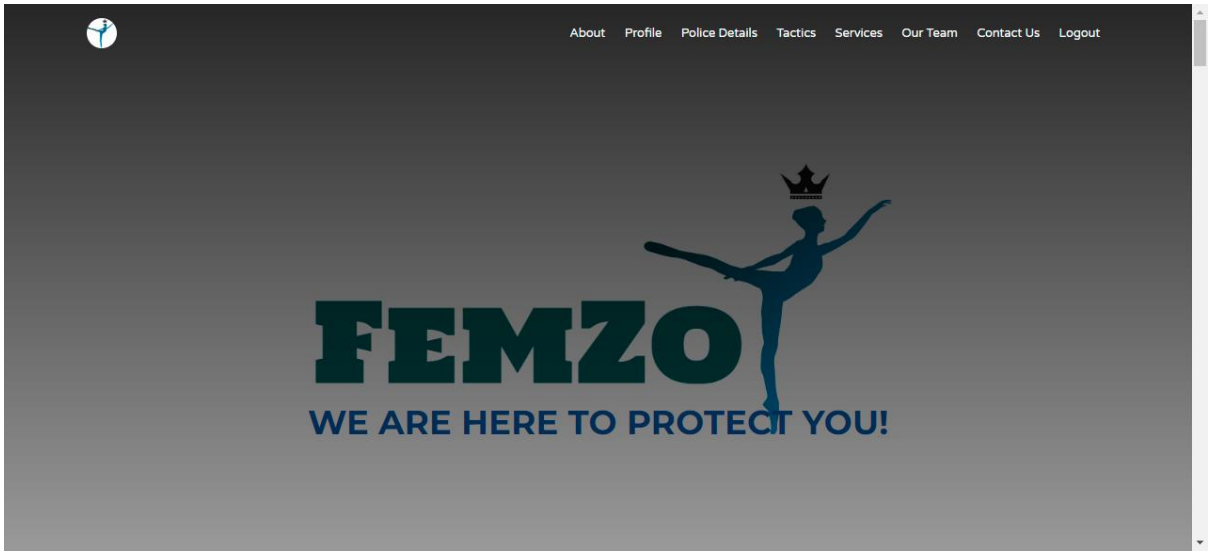
User Profile :

User Profile consists of my complaints and emergency contacts, where she can update the contacts and can view all the complaints status user filed.

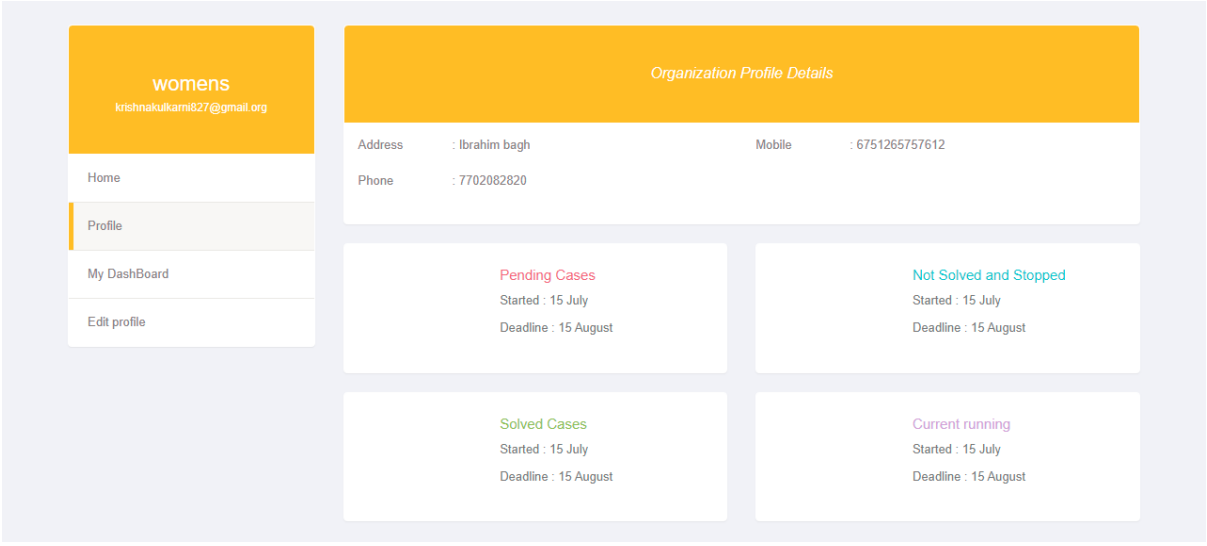


Organization Login:

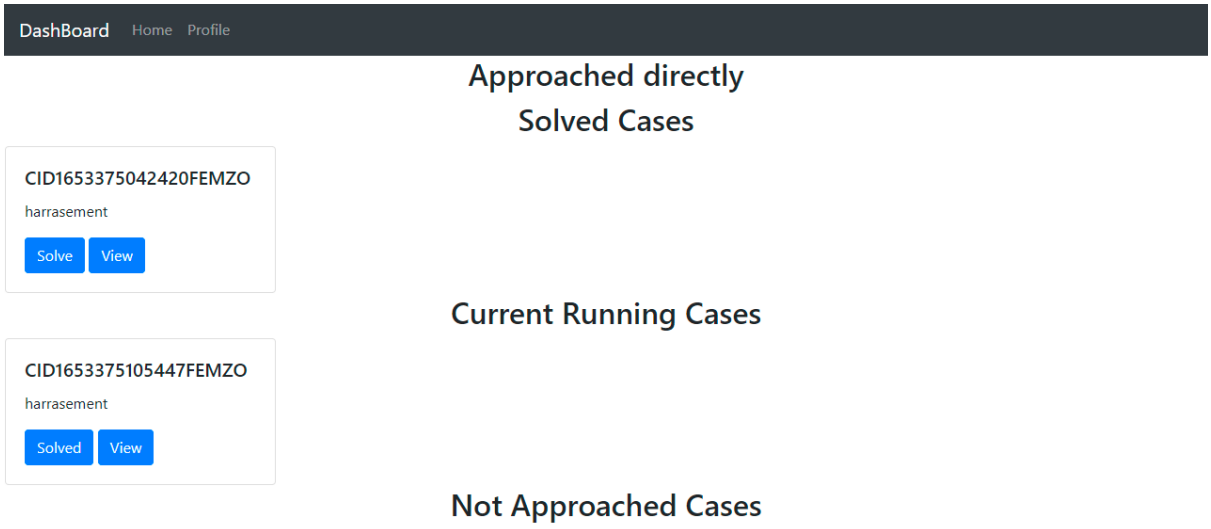
Organization can only access few modules like profile and police details.



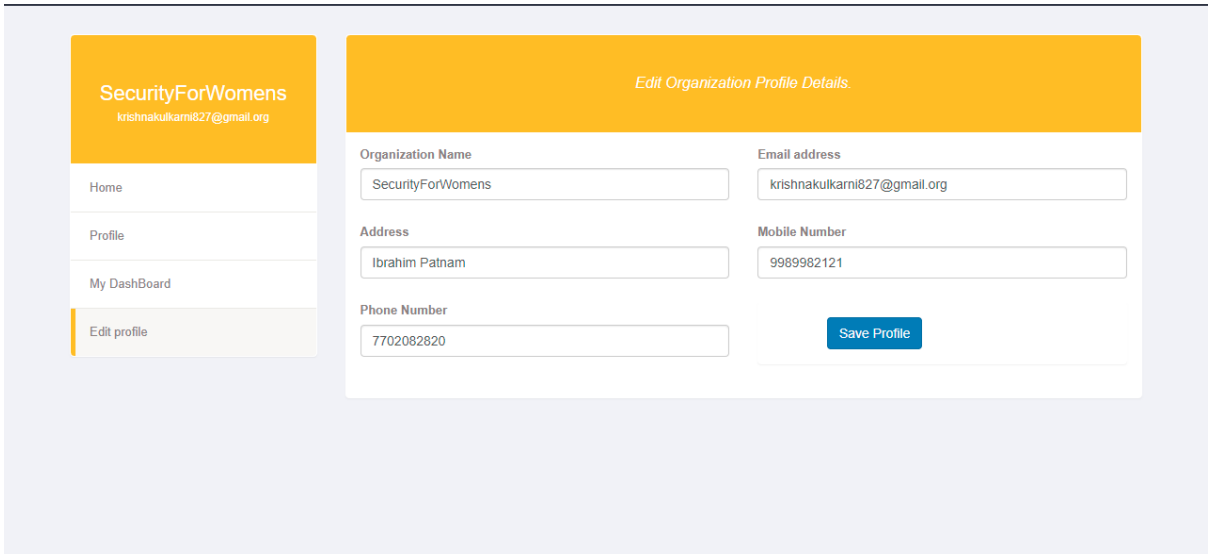
This is the organization profile with unique username and can see the no of cases they solved and pending.

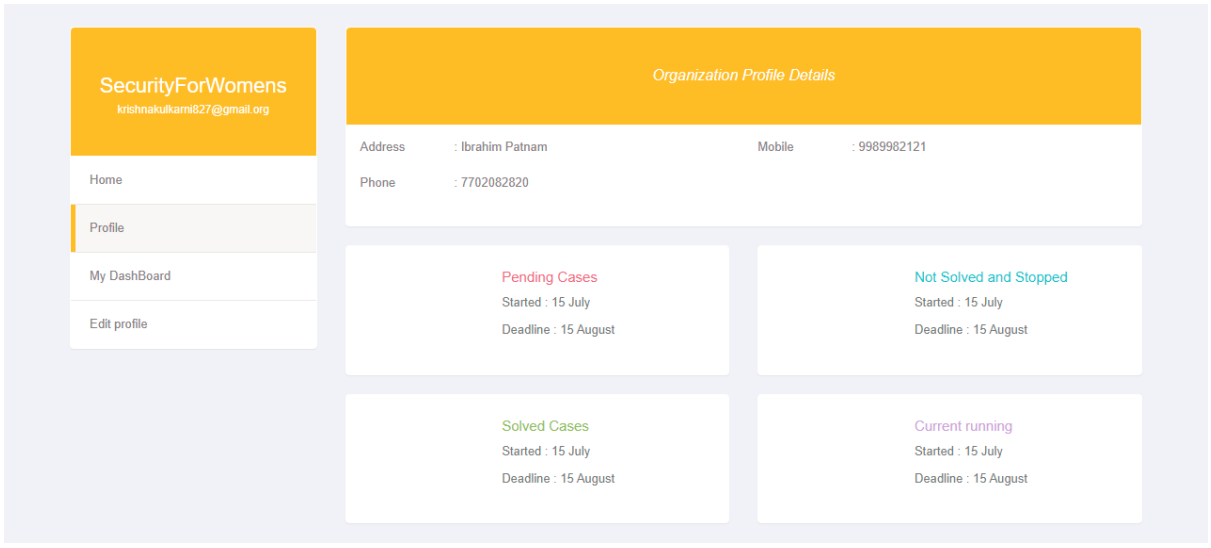


Organization dashboard:

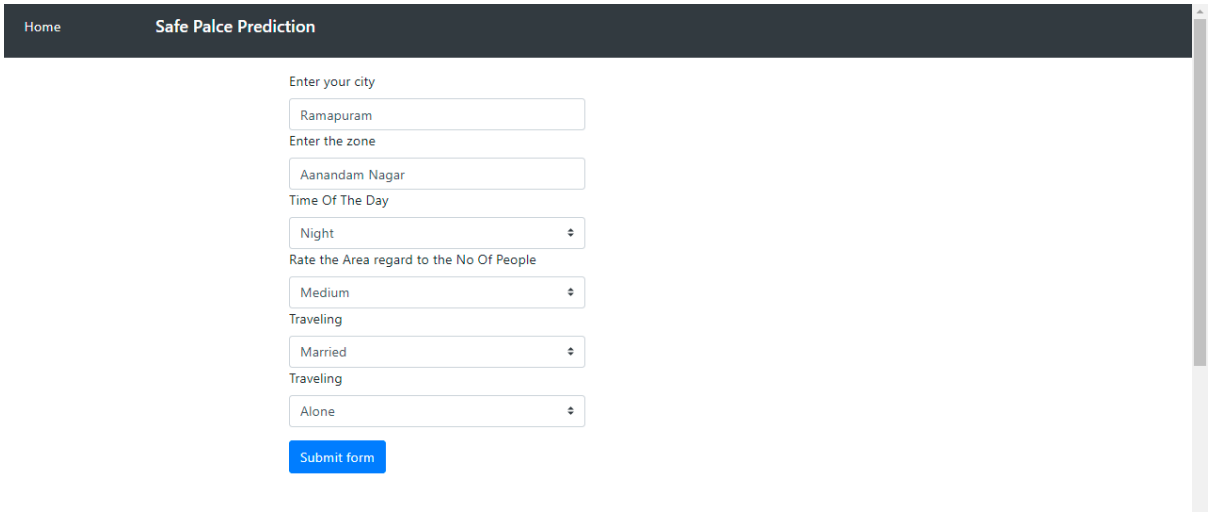


Organization Edit Profile:





Safe Place Prediction: There will be few details given by the user to know location is safe or not, like city ,zone ,time of the day etc.



6.1.2 HIGHLIGHTED CODE

1) **Confirmation Response Mail:**

```
@login_required(login_url='signinupform')
def filecomplaintform(request):
    if request.method == 'POST':
        context = {
            'firstName':request.POST.get('firstName'),
            'lastName':request.POST.get('lastName'),
            'contactNo':request.POST.get('contactNo'),
            'email':request.POST.get('email'),
            'location':request.POST.get('location'),
            'subject':request.POST.get('subject'),
            'idno':request.POST.get('idno'),
            'image':request.FILES.get('image'),
            'vedio':request.FILES.get('vedio'),
            'message':request.POST.get('message'),
            'id':request.FILES.get('id'),
            'gen':request.POST.get('Gender')
```

```
        }
        comp = complaint(
            user_name=request.user,
            victims_fname=context['firstName'],
            victims_lname=context['lastName'],
            contact_no = context['contactNo'],
            email =context['email'],
            location = context['location'],
            subject = context['subject'],
            idproof_number = context['idno'],
            message = context['message'],
            idprooof = context['id'],
            image = context['image'],
            vedio = context['vedio'],
            gender=context['gen']
        )

        e=EmailMessage('complaint filed successfully!',
            'Your form was submitted successfully, our organization will reach to ASAP. Kindly be patience. Thank you for using our website. -- team FEMZO ',
            settings.EMAIL_HOST_USER,
            [context['email']]
        )
        e.content_subtype='html'
        temp=get_template('responses.html')
        html=temp.render(context)
        res=BytesIO()
        pdf = pisa.pisaDocument(BytesIO(html.encode("ISO-8859-1")), res)
        pdf = res.getvalue()
        filename = 'Responses_' + context['firstName'] + '.pdf'
        e.attach(filename,pdf,'application/pdf')
        e.attach(context['id'].name,context['id'].read(),context['id'].content_type)
        e.attach(context['vedio'].name,context['vedio'].read(),context['vedio'].content_type)
        e.attach(context['image'].name,context['image'].read(),context['image'].content_type)
        e.send()
        comp.save()
        return redirect("filecomplaintform")
```

```
    return render(request,'filecomplaint.html')
```

2) Response PDF Format:

```
from io import BytesIO
from django.http import HttpResponse
from django.template.loader import get_template
from xhtml2pdf import pisa
import os
def fetch_resources(uri, rel):
    path = os.path.join(uri.replace(settings.STATIC_URL, ""))
    return path

def render_to_pdf(template_src, context_dict={}):
    template = get_template(template_src)
    html  = template.render(context_dict)
    result = BytesIO()
    pdf = pisa.pisaDocument(BytesIO(html.encode("ISO-8859-1")), result)#,
link_callback=fetch_resources)
    if not pdf.err:
        return HttpResponse(result.getvalue(), content_type='application/pdf')
    return None
@login_required(login_url='signinupform')
def filecomplaintform(request):
    if request.method == 'POST':
        context = {
            'firstName':request.POST.get('firstName'),
            'lastName':request.POST.get('lastName'),
            'contactNo':request.POST.get('contactNo'),
            'email':request.POST.get('email'),
            'location':request.POST.get('location'),
            'subject':request.POST.get('subject'),
            'idno':request.POST.get('idno'),
            'image':request.FILES.get('image'),
            'vedio':request.FILES.get('vedio'),
            'message':request.POST.get('message'),
            'id':request.FILES.get('id'),
```

```
        'gen':request.POST.get('Gender')
    }
    comp = complaint(
        user_name=request.user,
        victims_fname=context['firstName'],
        victims_lname=context['lastName'],
        contact_no = context['contactNo'],
        email =context['email'],
        location = context['location'],
        subject = context['subject'],
        idproof_number = context['idno'],
        message = context['message'],
        idprooof = context['id'],
        image = context['image'],
        vedio = context['vedio'],
        gender=context['gen']
    )

    e=EmailMessage('complaint filed successfully!',
        'Your form was submitted successfully, our organization will reach to ASAP. Kindly
be patience. Thank you for using our website. -- team FEMZO ',
        settings.EMAIL_HOST_USER,
        [context['email']]
    )
    e.content_subtype='html'
    temp=get_template('responses.html')
    html=temp.render(context)
    res=BytesIO()
    pdf = pisa.pisaDocument(BytesIO(html.encode("ISO-8859-1")), res)
    pdf = res.getvalue()
    filename = 'Responses_' + context['firstName'] + '.pdf'
    e.attach(filename,pdf,'application/pdf')
    e.attach(context['id'].name,context['id'].read(),context['id'].content_type)
    e.attach(context['vedio'].name,context['vedio'].read(),context['vedio'].content_type)
    e.attach(context['image'].name,context['image'].read(),context['image'].content_type)
    e.send()
    comp.save()
```

```
            return redirect("filecomplaintform")
        return render(request,'filecomplaint.html')
```

3) **Auto Detect Current Location**:

```
function getLocation(){
    if(navigator.geolocation){
        document.getElementById("location").placeholder = "Allow to detect location";
        navigator.geolocation.getCurrentPosition(onSuccess,
onError,{enableHighAccuracy:true});
    }else{
        document.getElementById("ip_location").placeholder = "Your browser not support";
    }
}

function onSuccess(position){
    var LAT = position.coords.latitude;
    var LNG = position.coords.longitude;
    var key = '7eef4fe5ef9ed661b775afd23eb8608d';
    let
api_link='https://apis.mapmyindia.com/advancedmaps/v1/'+key+'/rev_geocode?lat='+LAT+'
&lng='+LNG;
    console.log(api_link)
    fetch(api_link)
    .then(response => response.json()).then(response =>{
        let allDetails = response.results[0];
        var area, pincode, city, district, locality, state, street, subDistrict, formatted_address;
        area = allDetails.area;
        pincode = allDetails.pincode;
        district = allDetails.district;
        city = allDetails.city;
        locality = allDetails.locality;
        state = allDetails.state;
        street = allDetails.street;
        subDistrict = allDetails.subDistrict;
        formatted_address = allDetails.formatted_address;
        document.getElementById("location").value = formatted_address;
    }).catch(()=>{
```

```
            document.getElementById("location").placeholder = "Something went wrong";
        });
    }

    function onError(error){
        if(error.code == 1){
            document.getElementById("location").placeholder = "You denied the request";
        }else if(error.code == 2){
            document.getElementById("location").placeholder = "Location is unavailable";
        }else{
            document.getElementById("location").placeholder = "Something went wrong";
        }
    }
```

Safe Location Prediction:

Index.html

```
{% load static %}
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <style>
        .container {
            display: block;
            column-gap: 50px;
            justify-content: space-between;
          }
    </style>
    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <nav class="navbar " style="background-color: #1c96ee;">
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
```

```
      <div class="container-fluid">
        <a class="navbar-brand" href="#">Femzo</a>
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation" >
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarNav">
          <ul class="navbar-nav">
            <li class="nav-item">
              <a class="nav-link active" aria-current="page" href="#">Home</a>
            </li>
            <li class="nav-item">
              <a class="nav-link " href="#">About</a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="#">Help</a>
            </li>
          </ul>
        </div>
      </div>
    </nav>
  </nav>
  <img src="{% static 'images/pic1.webp' %}" class="rounded float-left" >
  <img src="../images/pexels-photo-10334838.webp" class="rounded float-right" style="width:
50px;" >
  <div class="container">
  <form action="result" method="post" >
    {% csrf_token %}

    <div class="form-row">
      <div class="col-md-4 mb-3">
        <label for="validationDefault01">Enter your city</label>
        <input type="text" class="form-control" name="textlocn" id="validationDefault01"
placeholder="City"  required>
      </div>
      <div class="col-md-4 mb-3">
        <label for="validationDefault02">Enter the zone</label>
        <input type="text" class="form-control" name="textZone" id="validationDefault02"
placeholder="Zone"  required>
      </div>
      <div class="col-md-4 mb-3">
        <h6>Time Of The Day</h6>
        <label for="validationDefaultUsername"></label>
        <select name="menu_time" id="id_time">
          <option value="">Choose one</option>
          <option value="Morning">Morning</option>
          <option value="Afternoon">Afternoon</option>
```

```
        <option value="Evening">Evening</option>
        <option value="Night">Night</option>
      </select>
    </div>
  </div>
  <div class="form-row">
    <div class="col-md-6 mb-3">
      <!-- <label for="validationDefault03">City</label> -->
      <h6>Rate the Area regard to the No Of People</h6>
          <label for="validationDefault03"> </label>
          <select name="freq" id="freq_id" required>
            <option value="">Choose one</option>
            <option value="Low">Low</option>
            <option value="Medium">Medium</option>
            <option value="High">High</option>
          </select>
    </div>
    <div class="col-md-3 mb-3">
       <h6>Marital Status</h6>
      <label for="validationDefault04"></label>
      <select name="married" id="id_married">
        <option value="">Choose one</option>
        <option value="Married">Married</option>
        <option value="No">Not Yet Married</option>
      </select>
    </div>
    <div class="col-md-3 mb-3">
      <h6>Traveling </h6>
      <label for="validationDefault04"></label>
          <select name="travel" id="id_travel">
            <option value="">Choose one</option>
            <option value="Alone">Alone</option>
            <option value="Family">Family</option>
            <option value="Friends">Friends</option>
            <option value="Others">Others</option>
          </select>
    </div>
  </div>
  <!-- <div class="form-group">
    <div class="form-check">
      <input class="form-check-input" type="checkbox" value="" id="invalidCheck2" required>
      <label class="form-check-label" for="invalidCheck2">
        Agree to terms and conditions
      </label>
    </div>
  </div> -->
  <button class="btn btn-primary" type="submit">Submit form</button>
</form>
```

```
    </div>
    <div class="container" > <img src="https://i.imgur.com/O18mJ1K.png" width="100" class="mb-
4">
        The result is:{{ result }}
    </div>



  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js"
integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js"
integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>
 </body>
</html>
```

VIEWS.PY

```
import re
from django.shortcuts import render
from joblib import load
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import random
import string
from sklearn.svm import SVC
from sklearn.preprocessing import OneHotEncoder
from sklearn.compose import ColumnTransformer
from sklearn.model_selection import train_test_split
# Create your views here.
dataset=pd.read_csv('C:/Users/Rushitha/OneDrive/Desktop/web
dev/safeLocation/Notebooks/safeornot2.csv')
dataset.rename(columns = {'People.Frequency':'People_Frequency'}, inplace = True)
df=dataset.copy()
model= load('./savedModels/model.joblib')
def myinput(request):
  return render(request,'index.html')
```

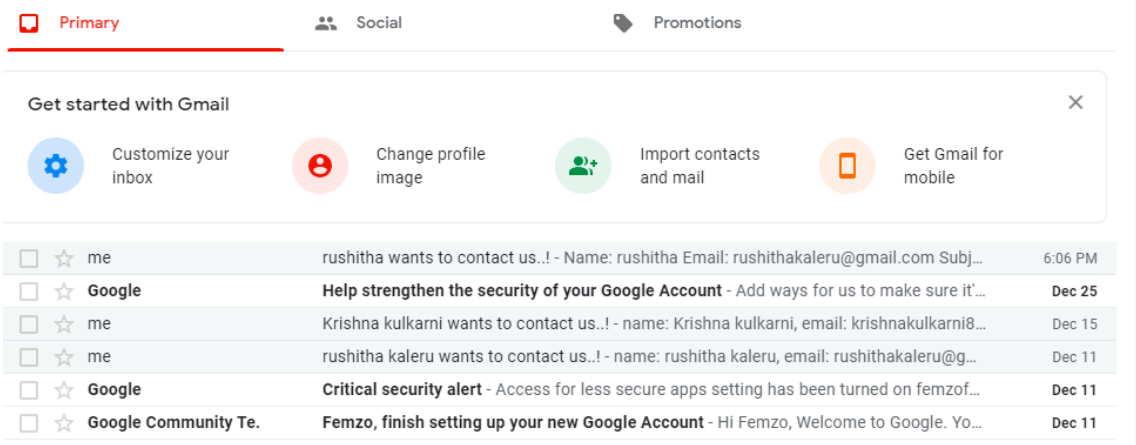
```
def formInput(request):
    if request.method=='POST':
        x=df.iloc[:,:-1].values
        y=df.iloc[:,-1].values
        Area=request.POST['textlocn']
        print(Area)
        Zone=request.POST['textZone']
        print(Zone)
        Time=request.POST['menu_time']
        print(Time)
        People_Frequency=request.POST['freq']
        print(People_Frequency)
        characters = ['Yes','No']
        Police_Station = ''.join(random.choice(characters) for i in range(1))

        print(Police_Station)
        characters = ['Yes','No']
        Is_Bar = ''.join(random.choice(characters) for i in range(1))
        print(Is_Bar)
        characters = ['Middle','Outer']
        Tier = ''.join(random.choice(characters) for i in range(1))
        print(Tier)
        characters = ['Low','Middle','High']
        Residence_Level    = ''.join(random.choice(characters) for i in range(1))
        print(Residence_Level)
        # x=x[:-1]
        sample=np.array([[Area, Zone    ,Time,  People_Frequency,   Police_Station, Is_Bar,
Tier    ,Residence_Level]])
        sample1=np.append(x,sample,0)

        for i in range(8):
            ct = ColumnTransformer(transformers=[('encoder', OneHotEncoder(), [-
1])],remainder='passthrough')
            sample1 = np.array(ct.fit_transform(sample1))
            x = np.array(ct.fit_transform(x))
        t=sample1[-1]
        # print(t)
        x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.25,random_state=0)

        classifier=SVC(kernel='rbf', random_state=0)
        classifier.fit(x_train,y_train)
        y_pred = classifier.predict([t])

        print(y_pred)

        return render(request,'index.html',{'result':y_pred})
    return render(request,'index.html')
```

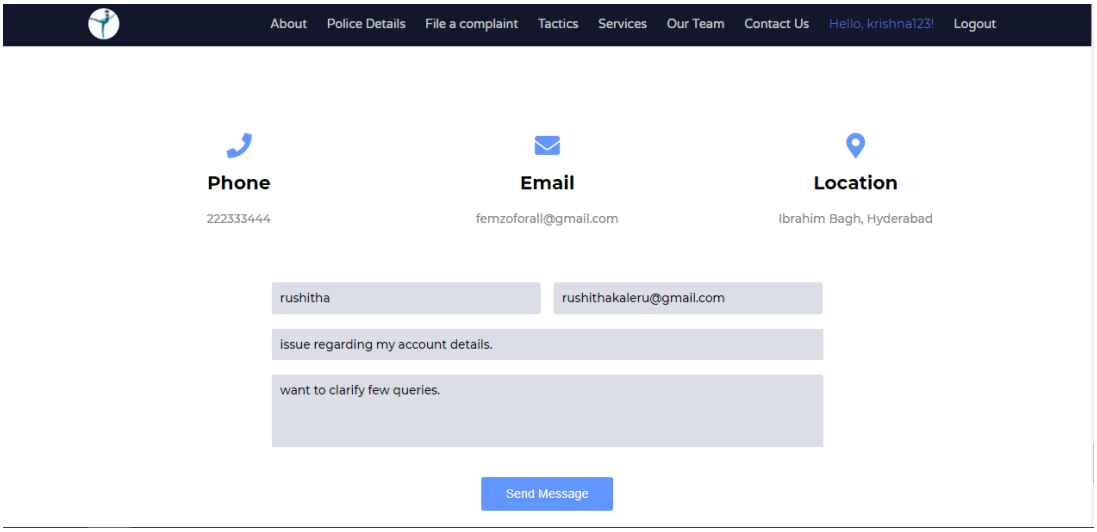
6.2 Results

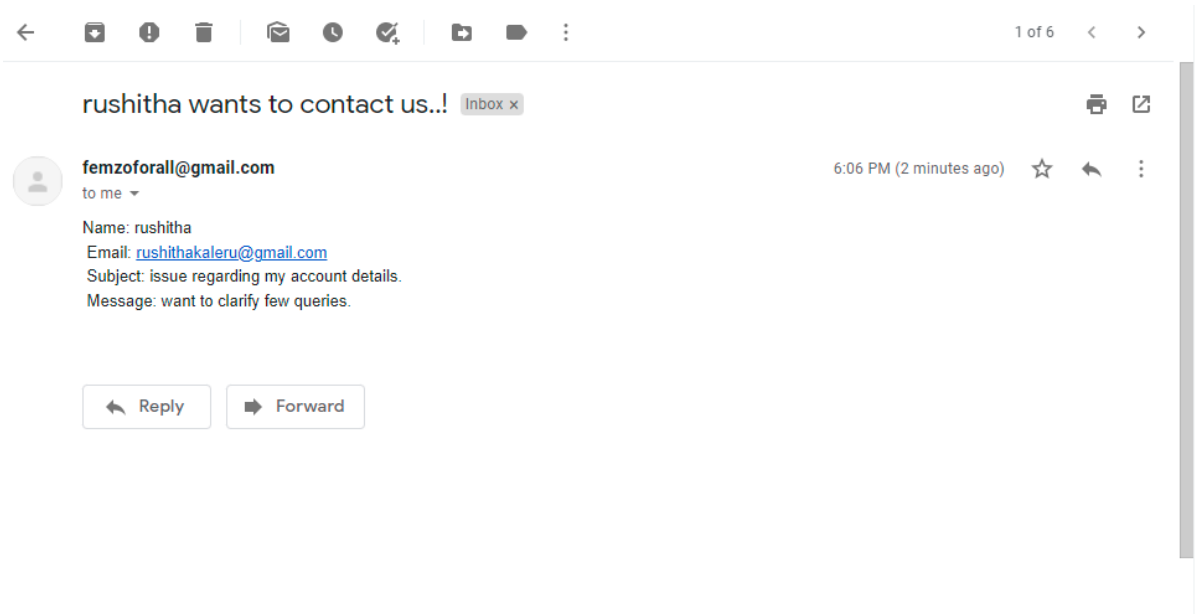
Compared to other devices our website ‘FEMZO’ has this special feature which no other website or application could provide. Safe Place Prediction and Chat with the preferred organization .The victim or related guardians can file a complaint on the accused and an email will be sent to the help centres immediately after the details are authenticated. Also, the user gets a copy of all the details entered to registered email. The mentioned place is predicted as safe or unsafe with 93% accuracy . The preferred organization takes up and solves the case and the victim can directly communicate with the organization at any time. Also on one click the user location will be sent to the emergency contacts.

Email Received:

After filling the details immediate confirmation will be sent to the admin and thereby her case will be resolved.

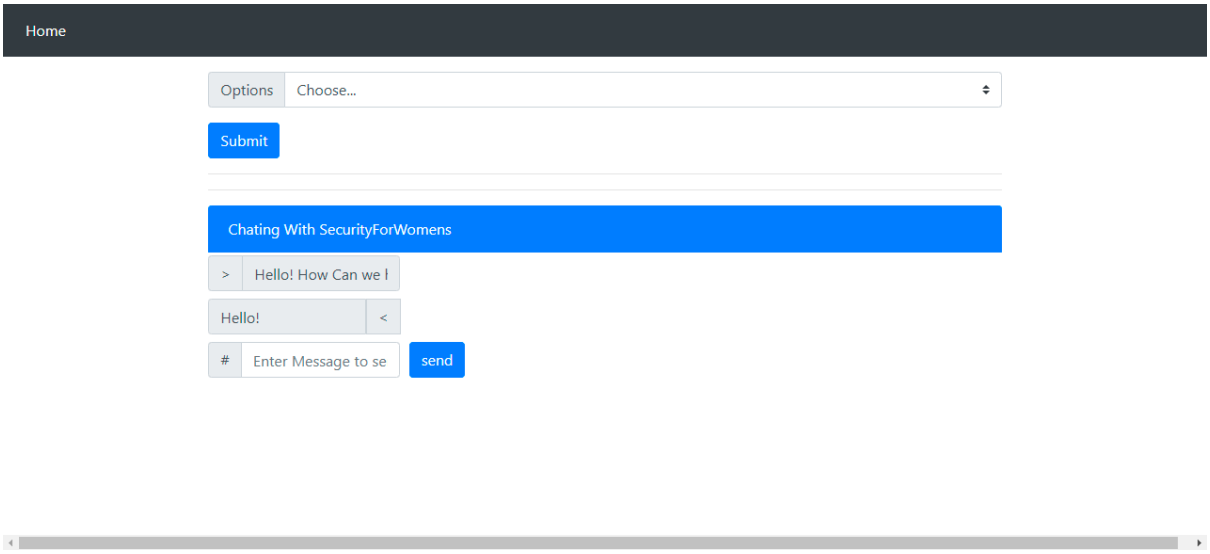






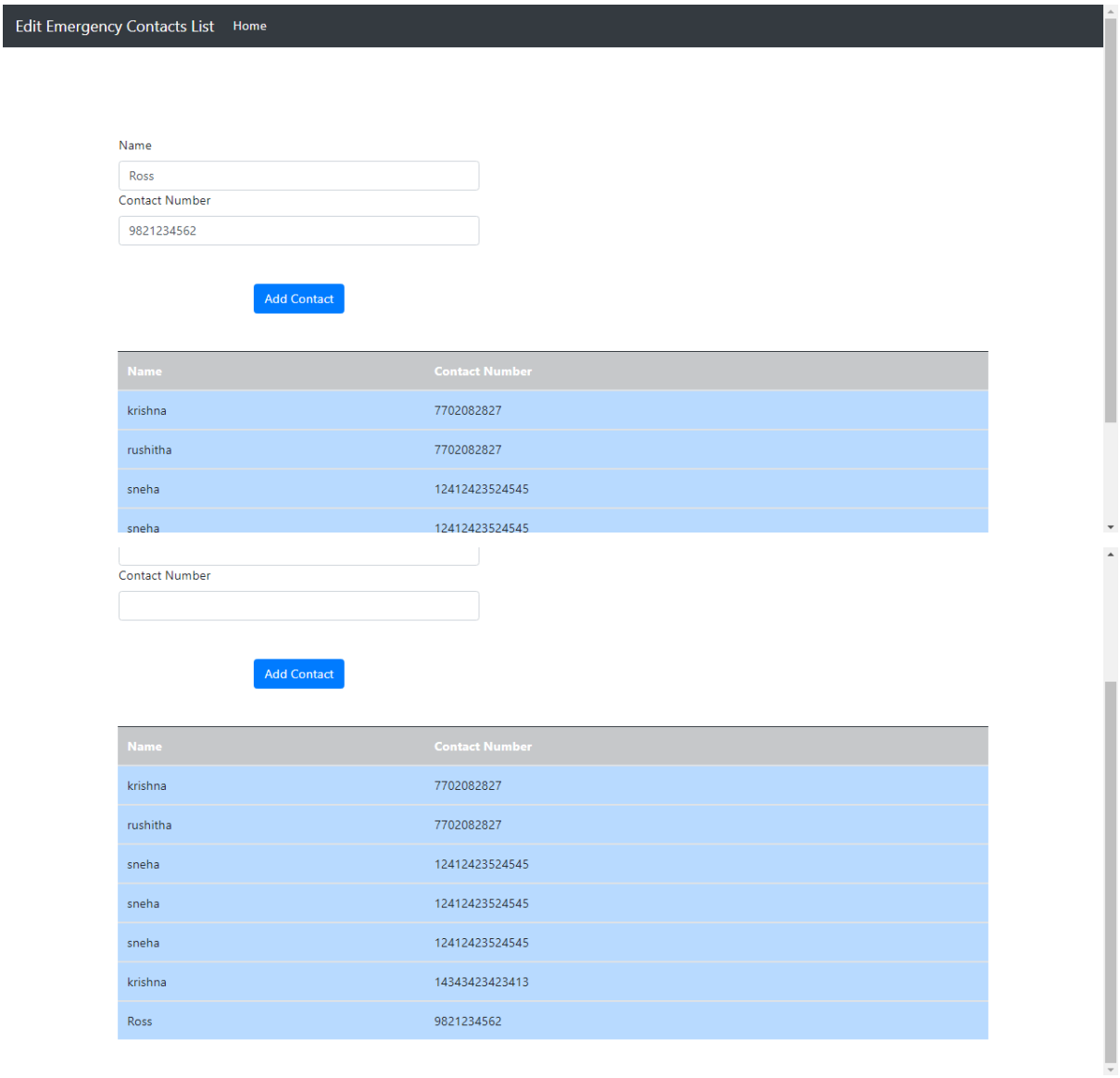
Chat with the organization:

It is a 2 way communication between org and the user.

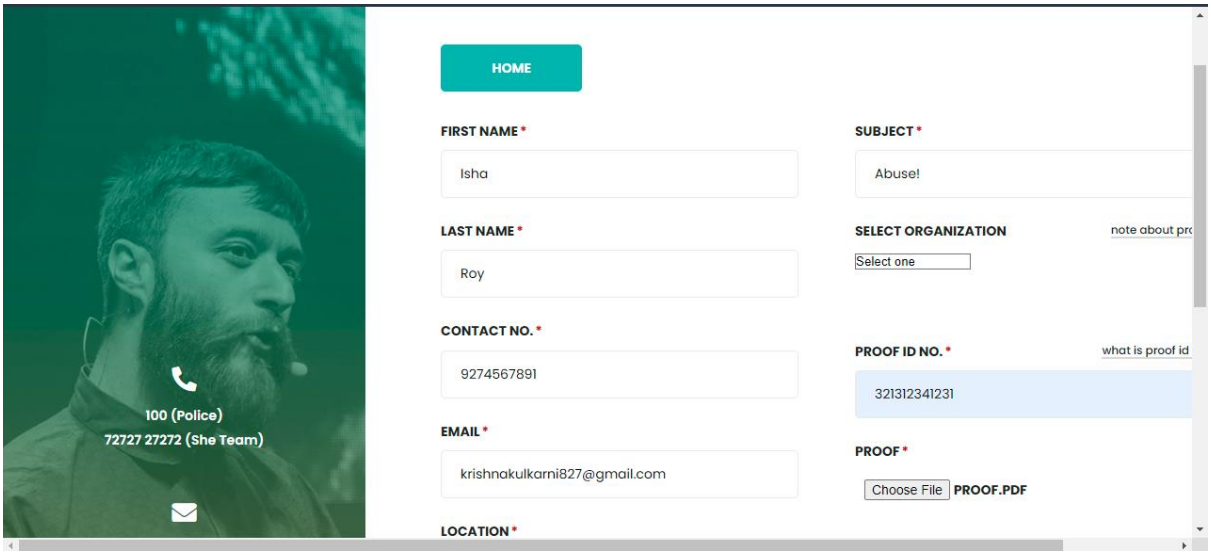


Emergency Contacts:

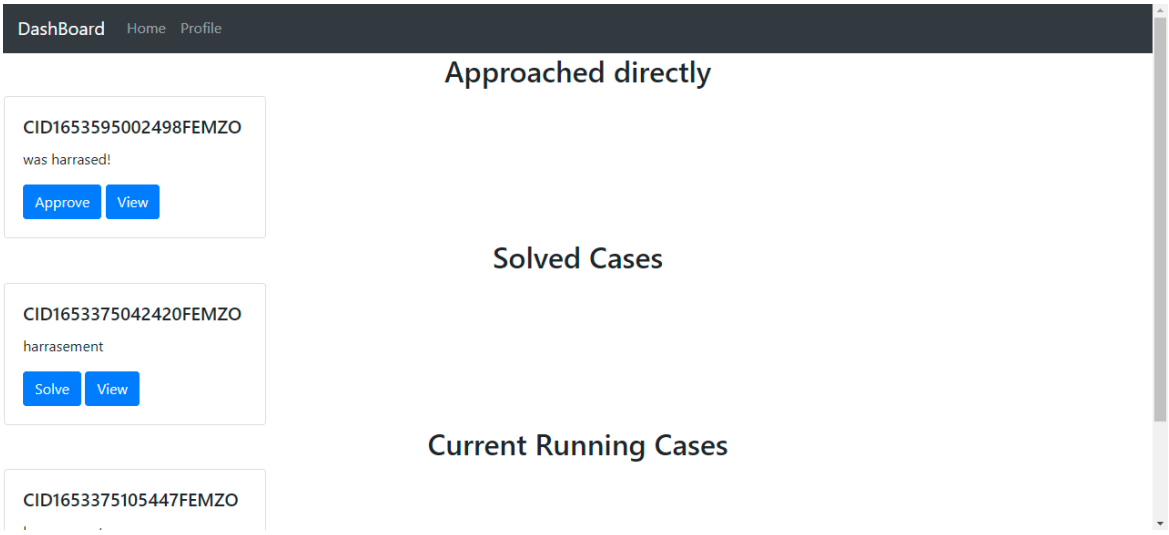
It can be updated at any point of time and immediate location is sent on one go.



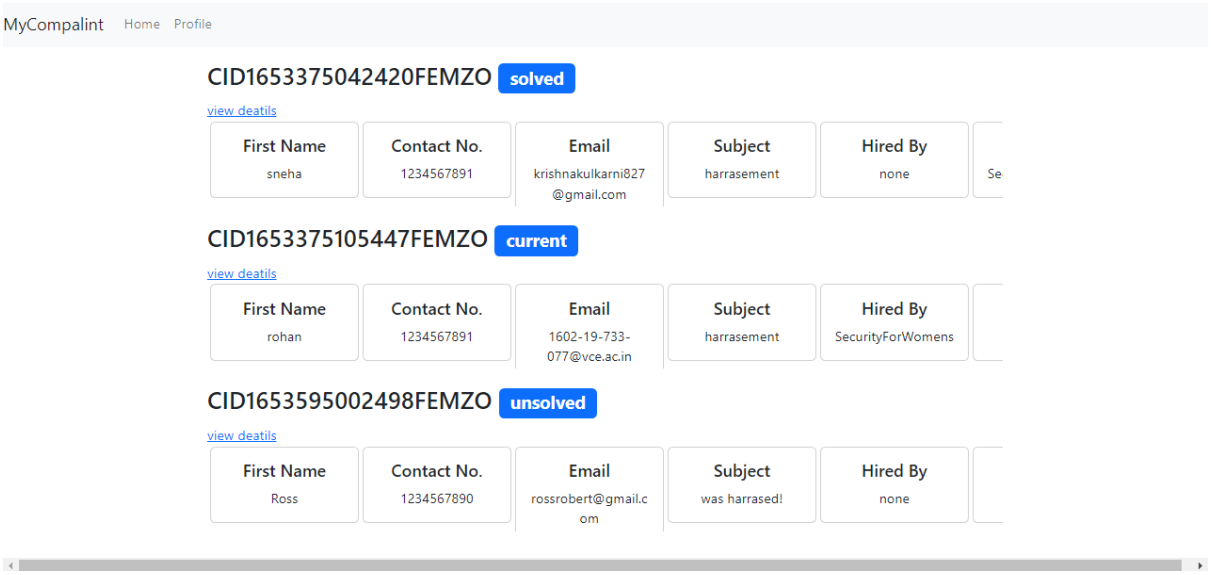
File A Complaint when sent by user ,the details of the victim are received by the specified organization:

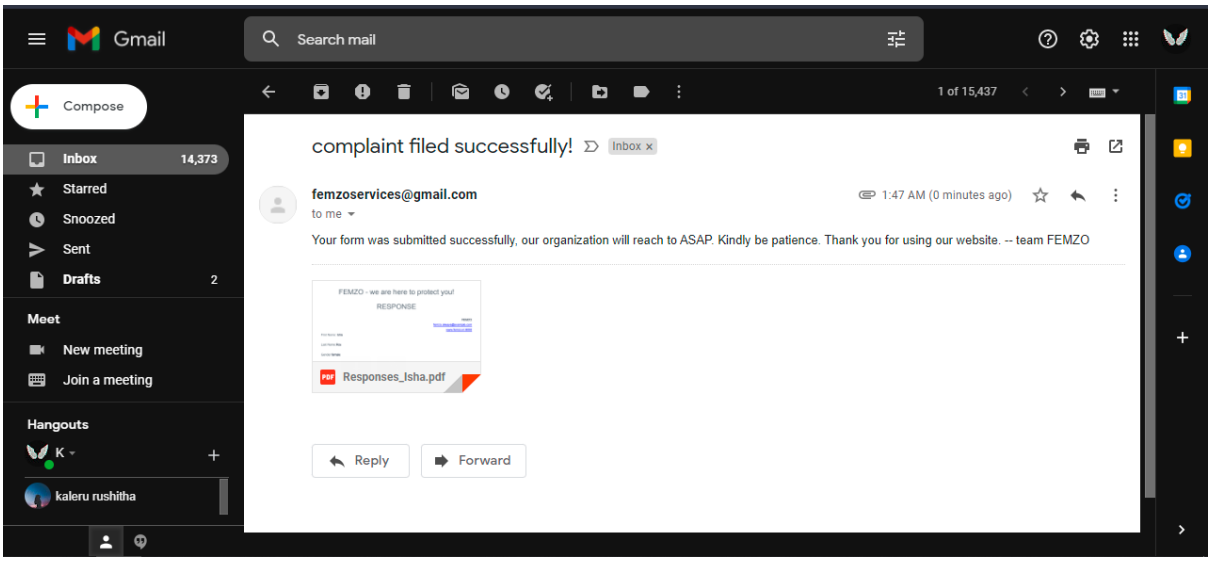


Users dashboard displays the cases solved and pending.

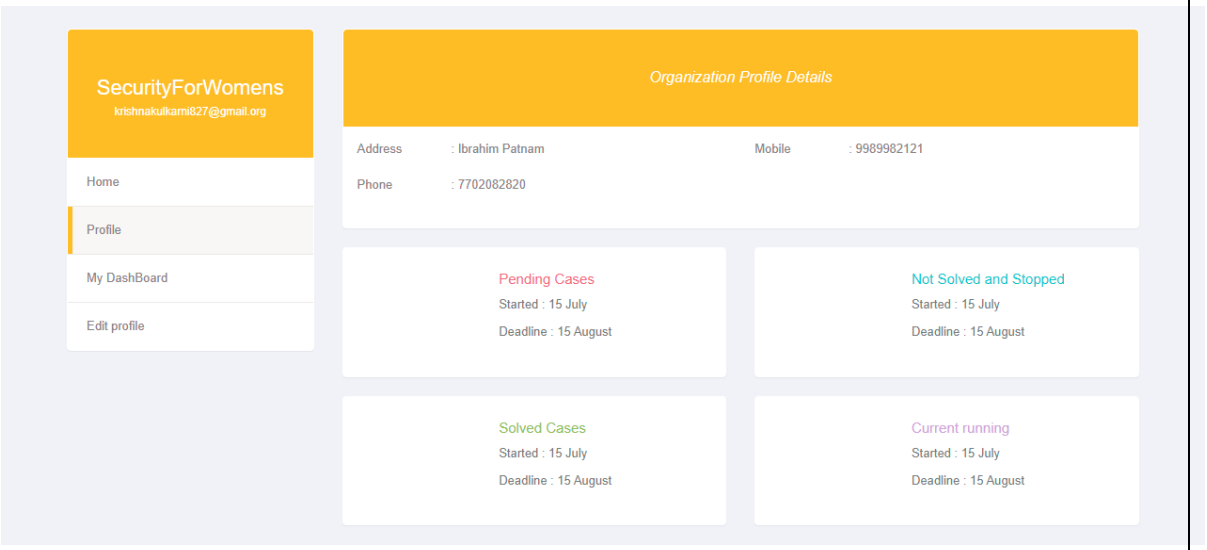


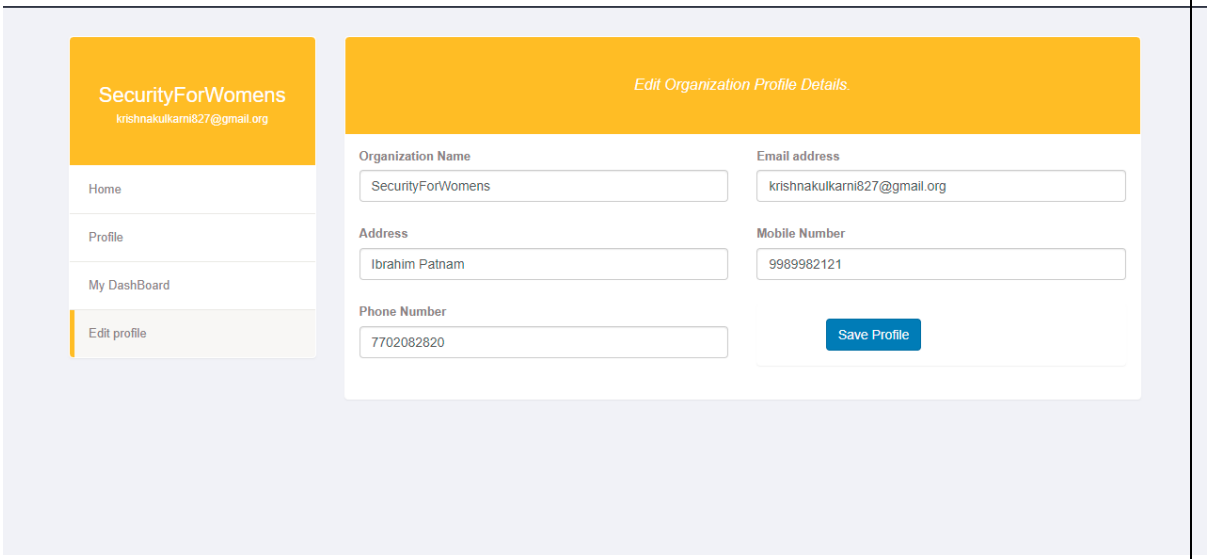
Similarly the organization dashboard displays the cases

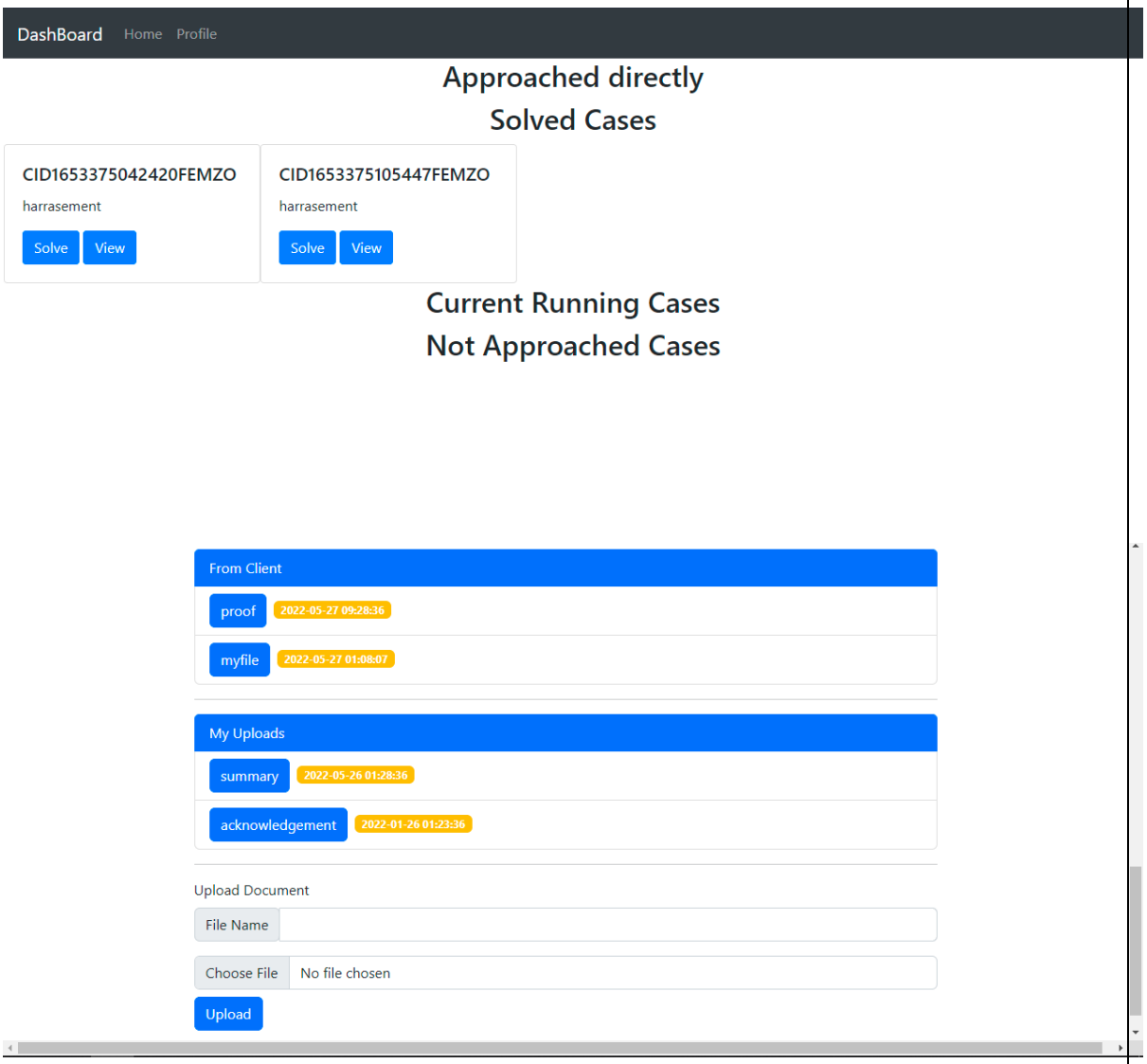




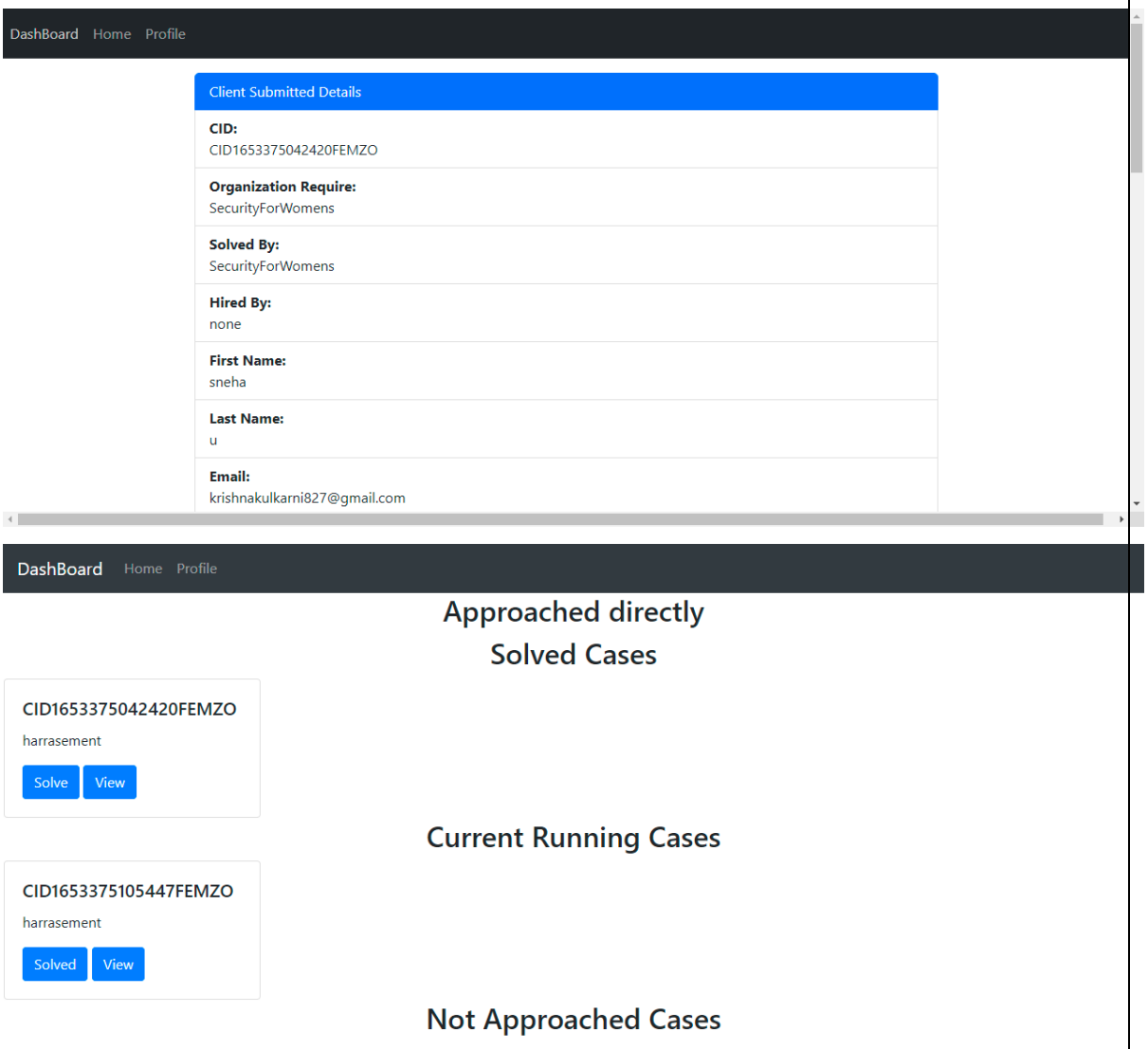
Organization Dashboard:



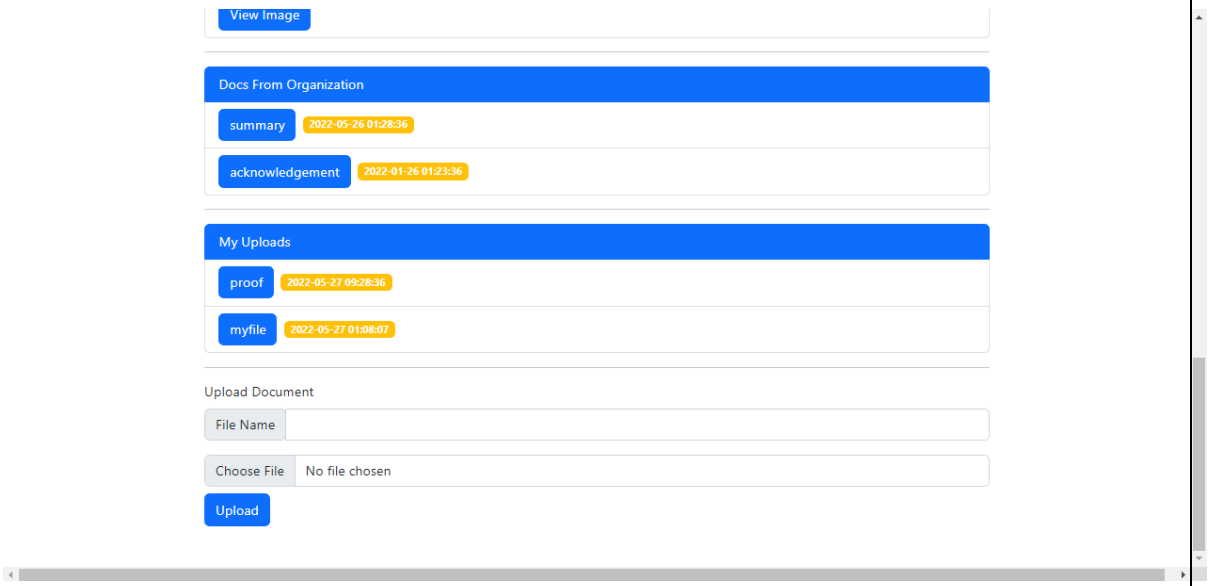



DashBoard
Home
Profile
Approached directly
Solved Cases
CID1653375042420FEMZO
harrasement
Solve
View
CID1653375105447FEMZO
harrasement
Solve
View
Current Running Cases
Not Approached Cases
From Client
proof
2022-05-27 09:28:36
myfile
2022-05-27 01:08:07
My Uploads
summary
2022-05-26 01:28:36
acknowledgement
2022-01-26 01:23:36
Upload Document
File Name
Choose File
No file chosen
Upload

User Dashboard:




About
Profile
Police Details
Tactics
Services
Our Team
Contact Us
Logout
FEMZO
WE ARE HERE TO PROTECT YOU!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Docs From Organization
summary
2022-05-26 01:28:36
acknowledgement
2022-01-26 01:23:36
My Uploads
proof
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myfile
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Upload Document
File Name
Choose File
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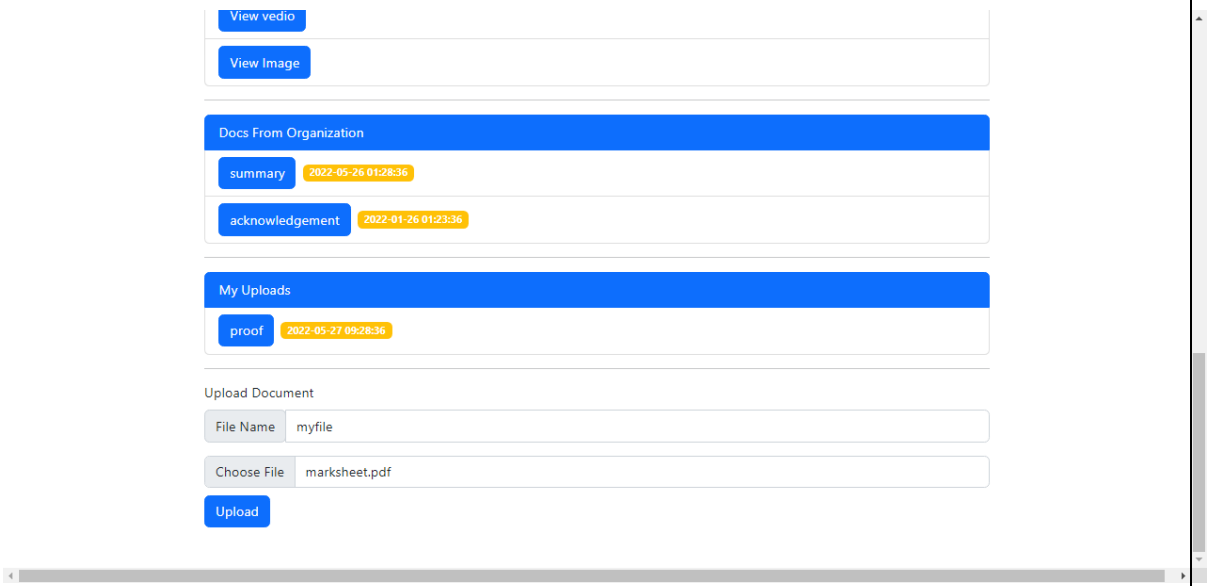
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My Uploads
proof
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Upload Document
File Name
myfile
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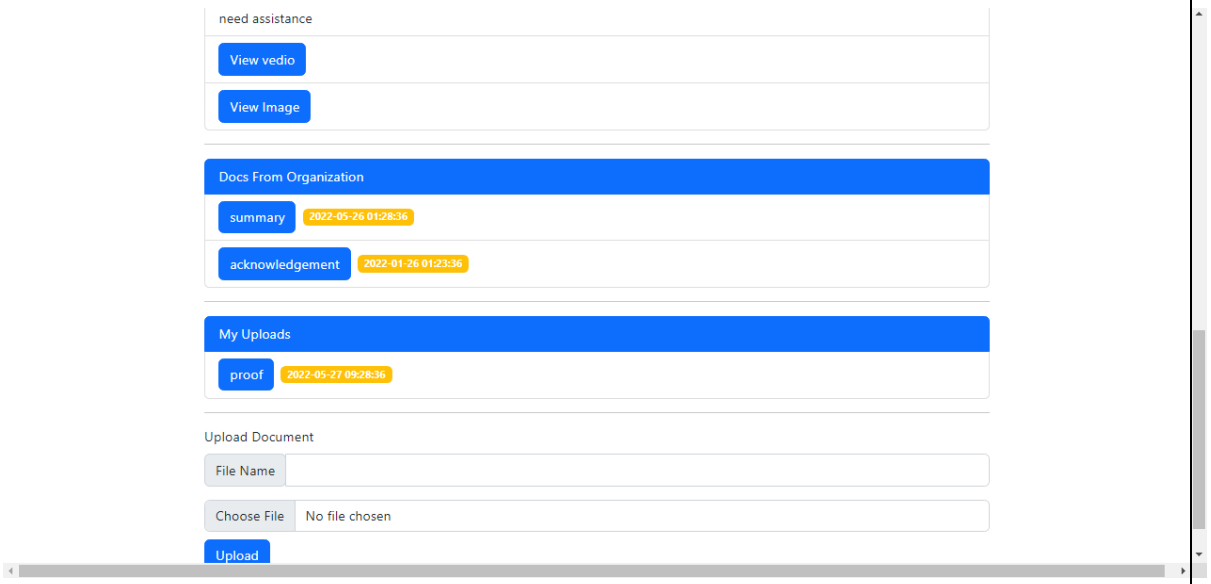
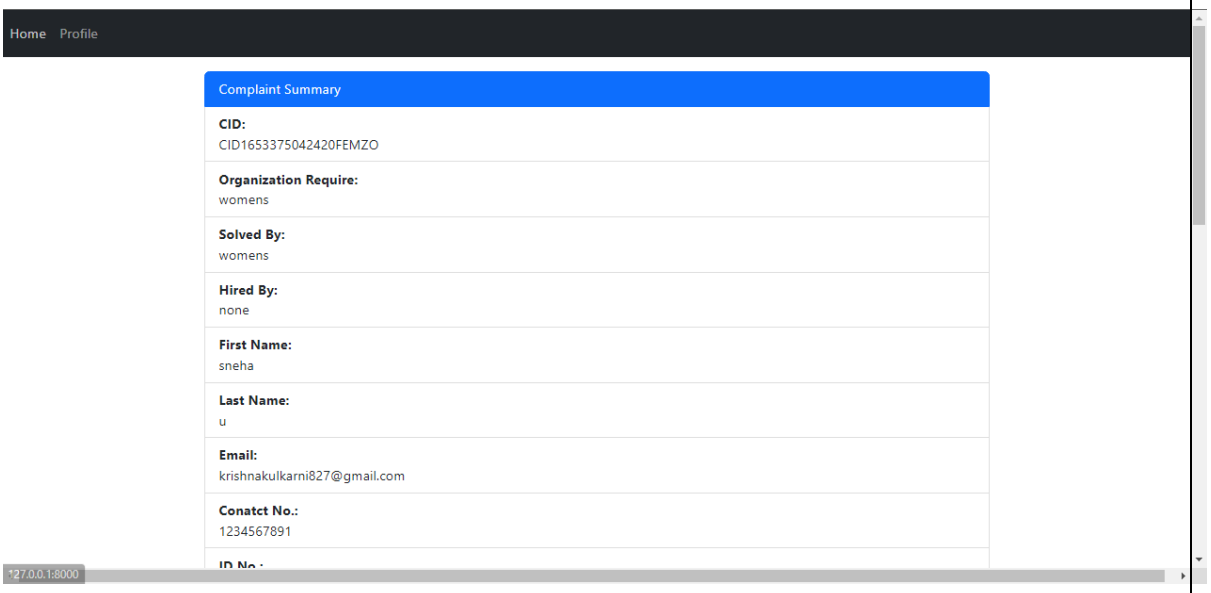
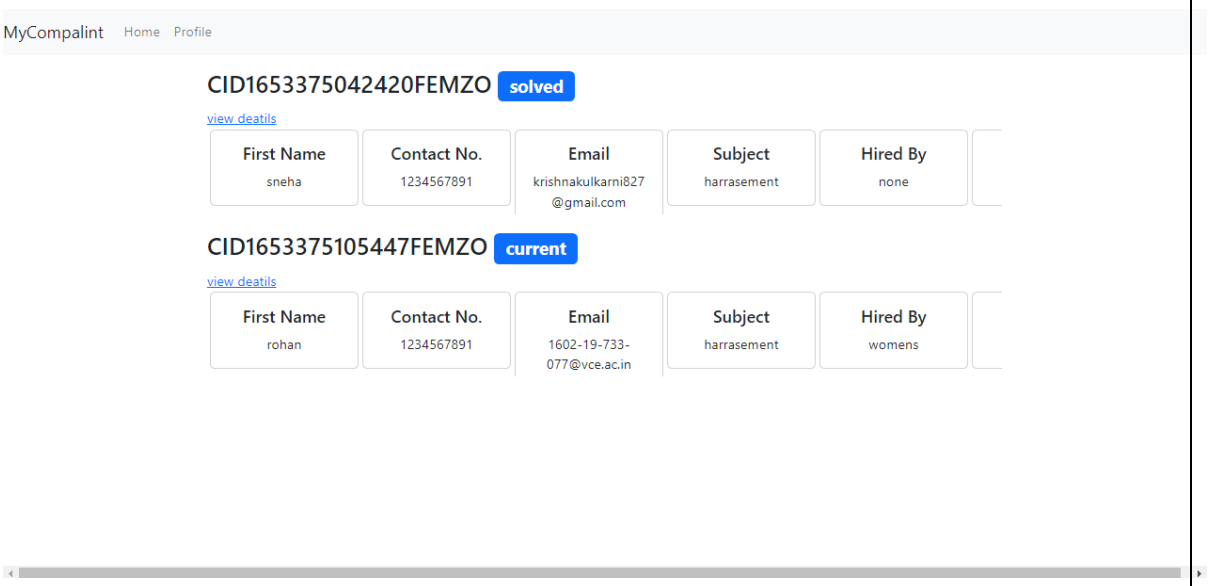
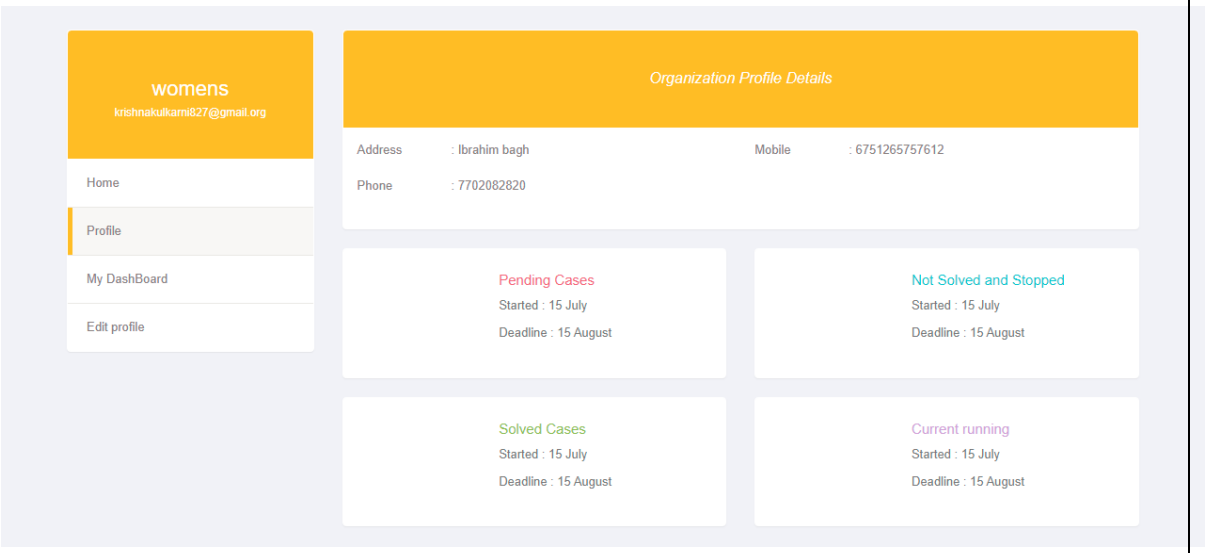


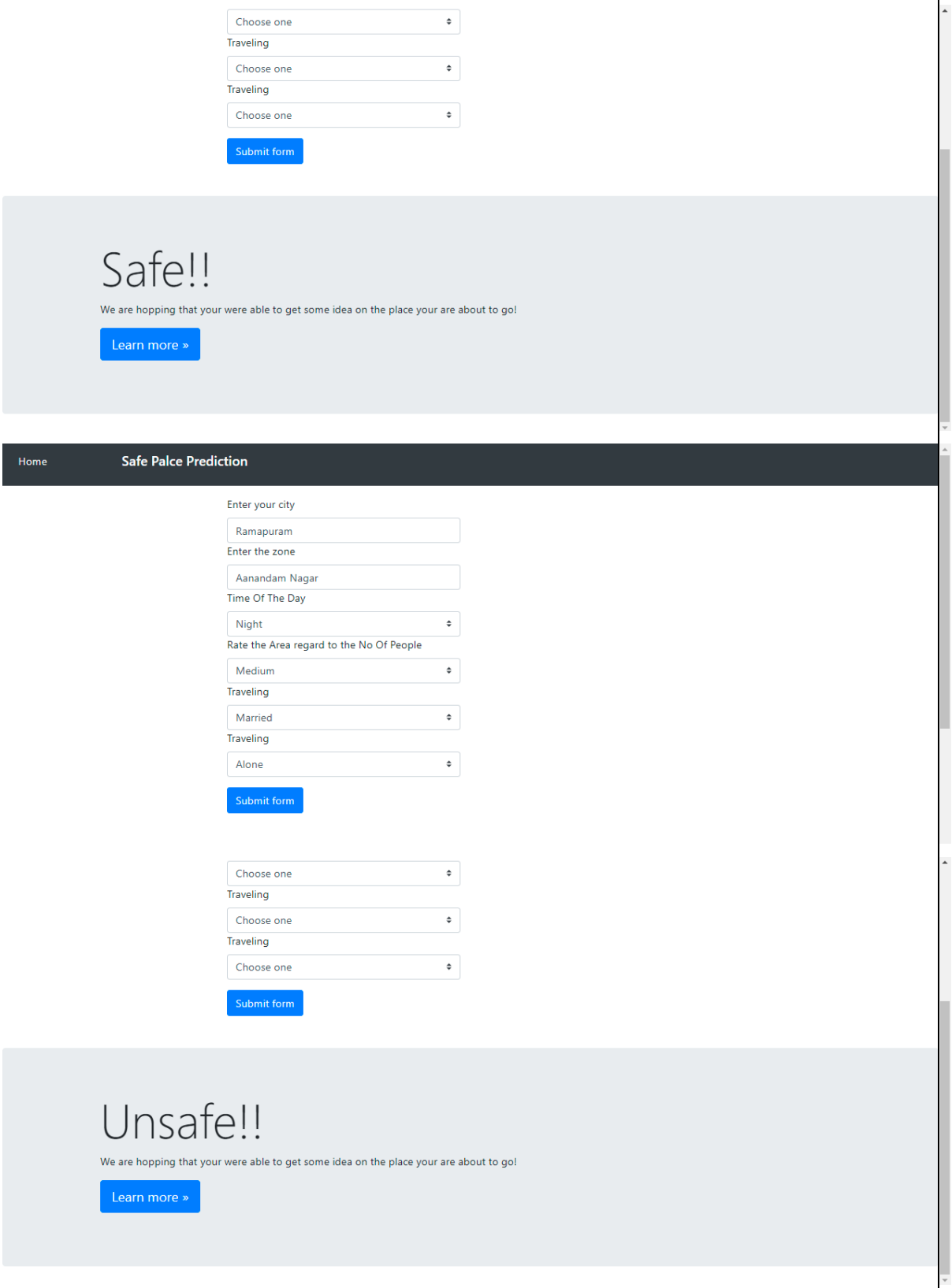




Safe Place Prediction:

Test cases of the safe place prediction safe and unsafe conditions




Choose one
Traveling
Choose one
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Choose one
Submit form
Safe!!
We are hopping that your were able to get some idea on the place your are about to go!
Learn more »
Home
Safe Palce Prediction
Enter your city
Ramapuram
Enter the zone
Aanandam Nagar
Time Of The Day
Night
Rate the Area regard to the No Of People
Medium
Traveling
Married
Traveling
Alone
Submit form
Choose one
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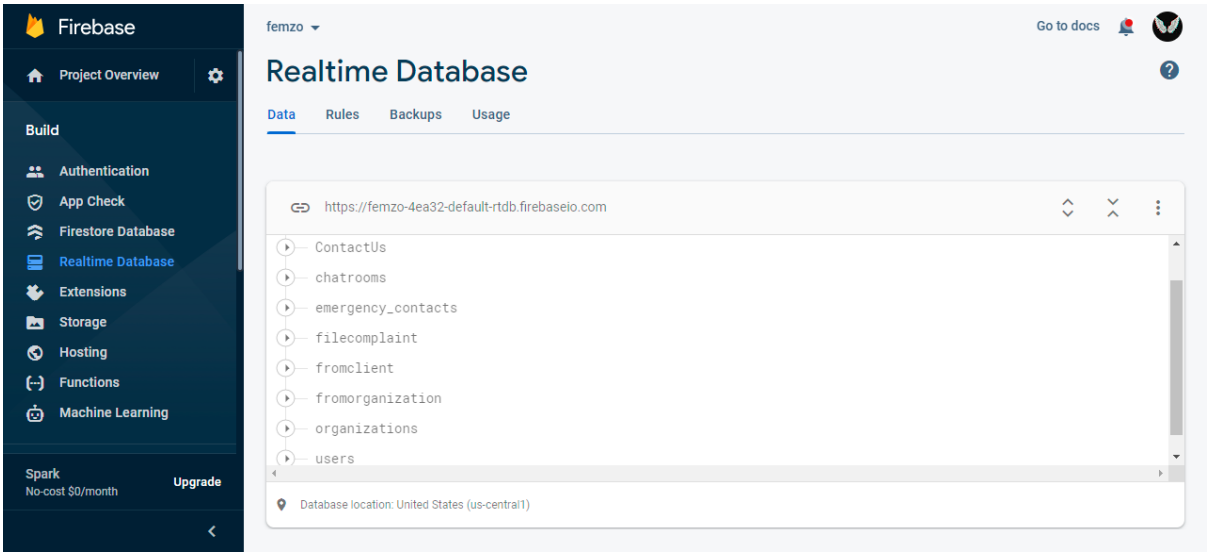
Traveling
Choose one
Submit form
Unsafe!!
We are hopping that your were able to get some idea on the place your are about to go!
Learn more »

FireBase Schema:



CHAPTER 7

CONCLUSION AND FUTURE SCOPE

Conclusion:

We believe that our website will be helpful for women and also any girl who are facing harassments and abuses. Our website will be a one- stop-place to track issues filed, resolving them without the victim's interference. Also after knowing the tactics they can boost up confidence to face an unsafe situation. They can estimate the place is safe or not before hand and can travel accordingly. Also,they can keep track of the complaint filed where no other application provides.

Future scope:

- Web Scrapping for tactics.
- Alarm System: On a single go they can send alarm sensing the user is in need and send notification to the nearby police station.
- Also, the police station directions can be enrooted on google maps displaying the distance from their current location to the stations.

1

CHAPTER 8

REFERENCES

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