#### **FEMZO**

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Project Report

Submitted in partial fulfilment of the

Requirements for the award of the Degree of

# **BACHELOR OF ENGINEERING**

ΙN

### INFORMATION TECHNOLOGY

By

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Under guidance of

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**HASEEBA YASEEN** 

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# **Professor**



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Vasavi College of Engineering (Autonomous)

(Affiliated to Osmania University) Ibrahimbagh,

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

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



# **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 KEZIA RANI,

**HASEEBA YASEEN, MUKESH TRIPATHI** Professor, 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.

**KEZIA RANI** 

HASSEBA YASEEN

**MUKESH TRIPATHI** 

Dr. K. RAM MOHAN RAO

Professor HOD, IT

**Internal Guide** 

#### **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 to **KEZIA RANI,HASEEBA YASEEN, MUKESH TRIPATHI** (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.

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# **INDEX**

CHAPTER 1	
Cover Sheet	1
CHAPTER 2	
Bonafied	3
CHAPTER 3	
Acknowledgement	4
CHAPTER 5	
Abstract	7
CHAPTER 6	
INTRODUCTION	
• 6.1 INFO/REQUIRMENTS	8
• 6.2 INTRODUCTION	9
• 6.2.1 PURPOSE	
• 6.2.2 SCOPE	
• 6.2.3 DEFINITIONS, ACRONYMS, ABBREVATIONS	
• 6.2.4 OVERVIEW	
• 6.3 GENERAL DESCRIPTION	10
♦ 6.3.1 PRODUCT PERSPECTIVE	
♦ 6.3.1 PRODUCT FUNCTIONS	
♦ 6.3.3 USER CHARACTERISTICS	
• 6.4 MODULES DESCRIPTION	11
• 6.5 SYSTEM REQUIRMENTS	12
• 6.5.1 HARDWARE REQUIRMENTS	
• 6.5.2 SOFTWARE REQUIRMENTS	

CHAPTER 7	
Related Work	14
CHAPTER 8	
Proposed Work	15
8.1 Use cases	
8.2 Screenshots	16
8.3 Architecture & Technology Used	23
8.4 Design	24
8.4.1 Static Diagram (Flowchart)	
8.4.2 Runtime Diagram (Sequence)	
8.5 Implementation	26
8.5.1 Description of main modules	
8.5.2 Any specific algorithm to be highlighted	
8.5.3 GitHub links and folder structure	
8.6 Testing	35
CHAPTER 9	
Results	40
CHAPTER 10	
Conclusion and Future Scope	43
CHAPTER 11	
References	44

#### **ABSTRACT**

In our Country, even though it has super power and an economic development, but still there are many crimes against women not only physically but also through social media channels. The safety of women is a concern of increasing urgency in India and other countries. 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. A Chatbot is provided in the system for user's queries. 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.

#### TITLE DESCRIPTION

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.

#### 6.1 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.

#### **6.2 Introduction**

### 6.2.1 Purpose

Women are accomplished at mobilizing diverse groups for frequent causes. They often work across racial, sacred, opinionated, and intellectual divides to encourage tranquillity. We are aware of importance of women's security, but we must recognize that they should be well secured and saved from abusive situations.

6.2.2 *Scope* 

With the help of this website victims or their companions can (FAC) file an instant

complaint by registering to the website and uploading necessary documents for proof

and an immediate rescue team will be appointed. On an emergency note, she can

contact or approach the nearby police stations through the website when she feels an

unsafe environment.

6.2.3 Definitions, Acronyms and Abbreviations

**Abbreviations:** 

**VS: Visual Learning** 

6.2.4 Overview

The specifications include product perspective and the functionalities that the system

will provide. The user characteristics, any general constraints or assumptions and

dependencies are discussed below.

Requirements are categorized as performance, non-functional requirements and design

constraints. Non-functional requirements are scalability, maintainability and

dependence.

6.3 General Description

*6.3.1 Product perspective* 

Femzo provides features for client users such as they can FAC, access the nearby police

station and contact them, learn about the self-defence techniques etc. The current

design goal is to build a system to achieve the functionality outlined in the

specification.

9

### 6.3.2 Product Functions

Femzo gives users a list of all the required police station details with their current updates and also displays the resolved and yest to resolve cases with correct statistics.

### 6.3.3 User Characteristics

### a) Victim/user:

- The user can register in our website free of cost.
- He/she can and access the features after logging in.
- They can access the self-defence courses, can FAC and access the nearby police details and can contact them.

# b) Administrator:

- Admin is responsible for maintaining and updating website
- Admin has access to database.

# 6.4 Modules Description

# • Login/Signup:

In this module, the user can log into their respective accounts and use the website as desired. If the victim is not an already existing user, he/she can create a new account by signing up.

## • File a Complaint:

Here, the users can file a complaint on the accused, by filling the respective details and uploading the necessary documents. An email will be sent to the help centres. Immediately the system validates the details and send it to the help centres and they take an immediate action on the accused.

#### • Tactics:

In this module, the user can get access to information about various self-defence techniques. They can view them as audio, video, blog formats and can learn how to rescue themselves at uncertain times.

#### Police Details:

In this module, the user will be provided with two options they can either search for a police station or can view all the police stations available. The card contains police station name ,address, pin code, mobile number etc..

## 6.5 System Requirements

# 6.5.1 Hardware Requirements

- 1GB RAM
- 1GB CORE

# 6.5.2 Software Requirements

#### 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.

# 6.6 Design Constraints

- Software Constraints: Users can run this application in windows.
- Hardware Constraints: The system will run on a core processor with minimum 400MB ram.
- Acceptance Criteria: Before accepting, the developer must check whether the application is running properly or not and should also check whether the data is stored correctly.

### **RELATED WORK**

#### **Market Research:**

### **WOSAPP:**

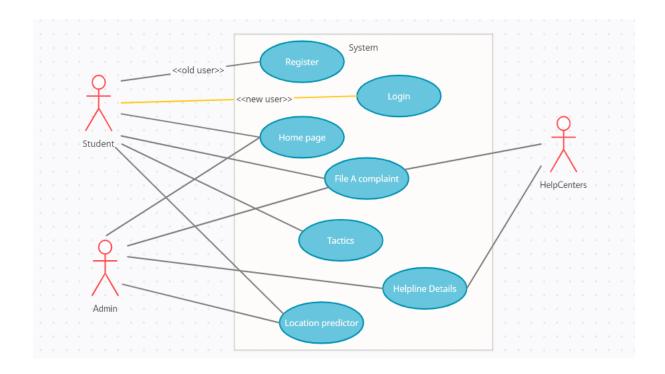
The safety of women is a concern of increasing urgency in India and other countries. The primary issue in the handling of these cases by the police lies in constraints preventing them from responding quickly to calls of distress. These constraints include not knowing the location of the crime, and not knowing the crime is occurring at all: at the victim's end, reaching the police assuredly and discreetly is a challenge. To aid in the removal of these constraints, this paper introduces a mobile application called WoSApp (Women's Safety App) that 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.

# PROPOSED WORK

# **8.1 USE CASES**

# 8.1.1 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.



# **8.2 SCREENSHOTS:**

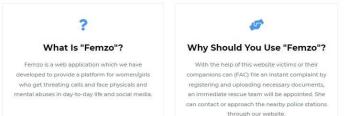
# **Home Page:**





About Police Details File a complaint Tactics Services Our Team Contact Us Sign up/ Sign in

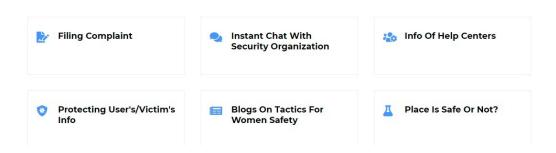
#### Welcome To Femzo!

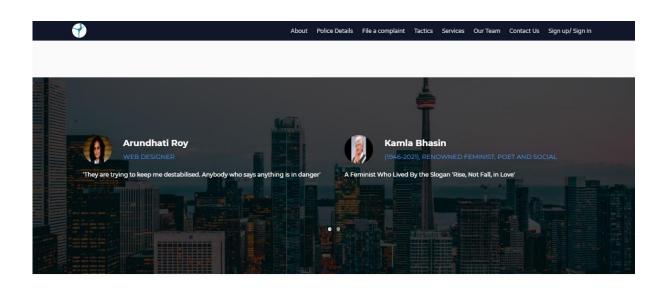


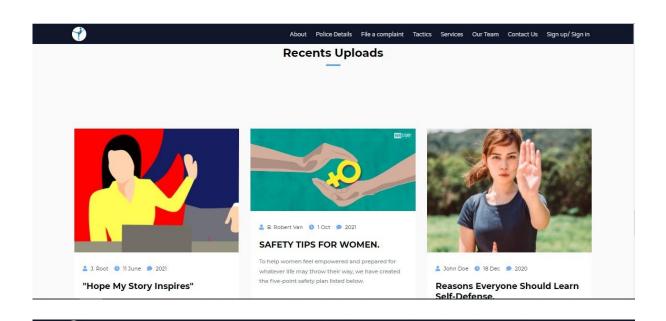


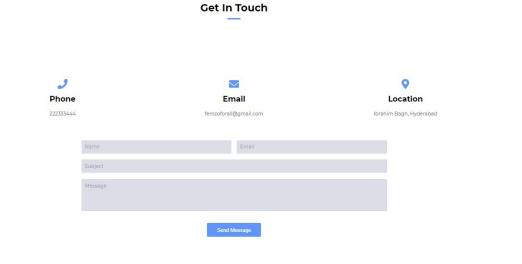
About Police Details File a complaint Tactics Services Our Team Contact Us Sign up/ Sign in

#### What We Offer



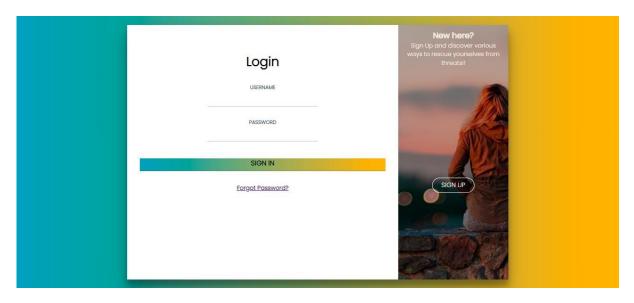


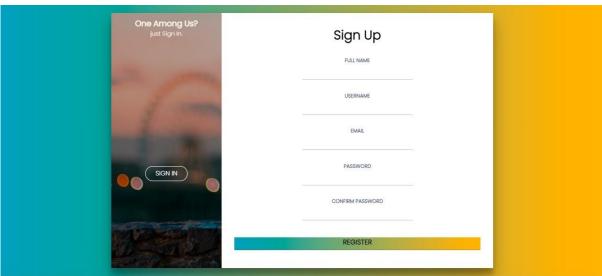




	Femzo	
	Website build for women safety.	
_	<b>y</b> in <b>□</b> ② @ <b>(</b>	
	Copyright © 2021.All Rights Reserved.	

# Login/SignUp:



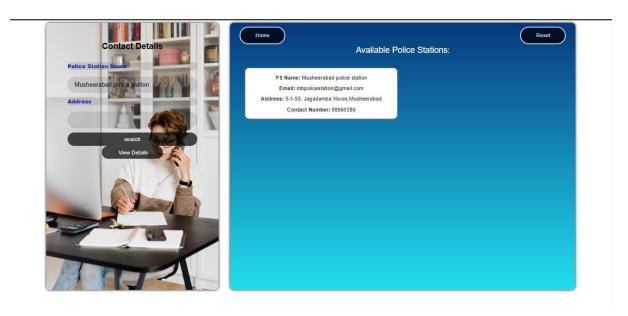


**Police Details:** 

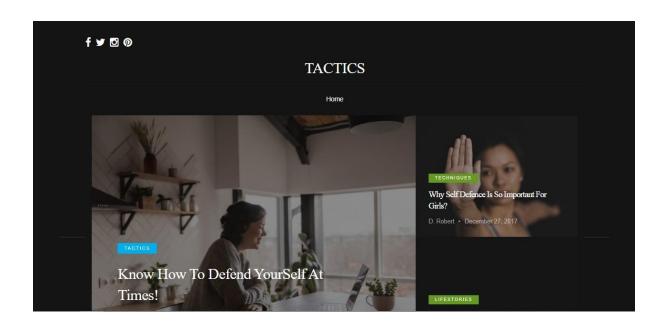
View Details-

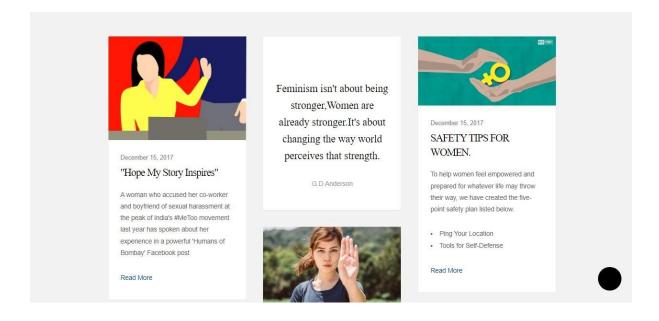


# Search-

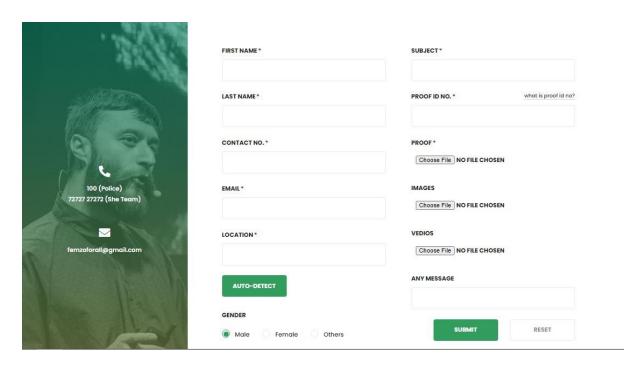


# **TACTICS:**

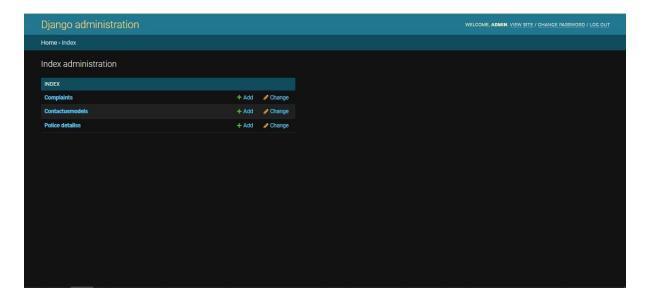




# FILE A COMPLAINT:



# **ADMIN:**



# 8.3 Architecture and Technology Used

# **Front-End:**

- 1) HTML
- 2) CSS
- 3) JAVA SCRIPT 4) BOOTSTRAP

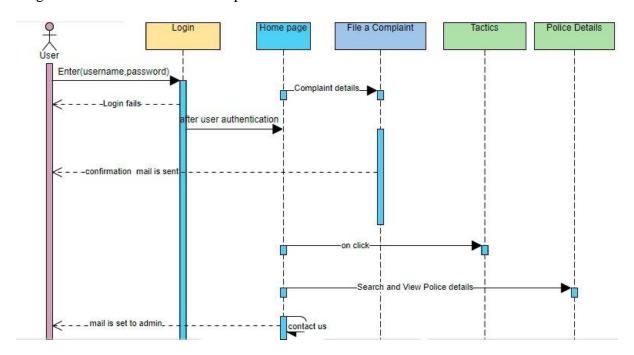
# **Back-End:**

- 1) SQLlite3
- 2) DJANGO

# 8.4 DESIGN

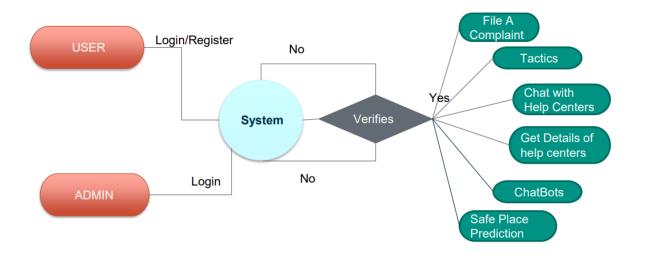
# **8.4.1 SEQUENCE DIAGRAM:**

Sequence diagrams establish the roles of objects and help provide essential information to determine class responsibilities and interfaces. This type of diagram is best used during early analysis phases in design because they are simple and easy to comprehend. These are normally associated with use cases and are closely related to collaboration diagrams and both are alternate representations of an interaction.



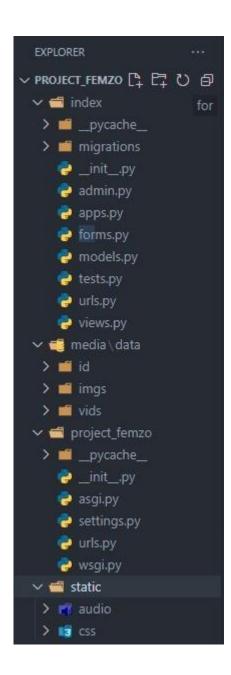
### 8.4.2 Flow Chart

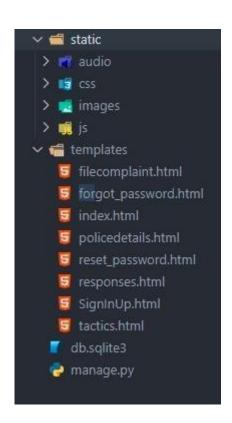
A flowchart is a picture of the separate steps of a process in sequential order. It is a generic tool that can be adapted for a wide variety of purposes, and can be used to describe various processes, such as a manufacturing process, an administrative or service process, or a project plan. It's a common process analysis tool and one of the seven basic quality tools.



# **8.5 IMPLEMENTATION**

# 8.5.1 System Architecture (Design)





#### **8.5.2 ALGORITHM:**

#### HIGHLIGHTED:

```
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
```

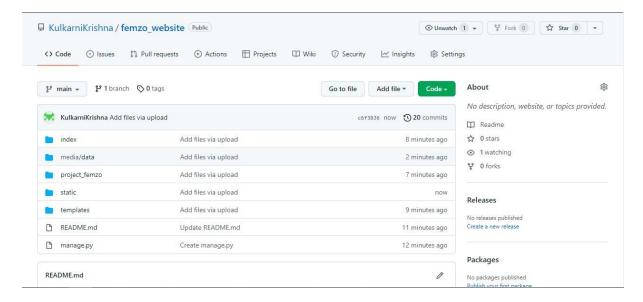
```
def fetch_resources(uri, rel):
  path = os.path.join(uri.replace(settings.STATIC_URL, ""))
  return path
def render_to_pdf(template_src, context_dict={}):
  template = get_template(template_src)
  html = template.render(context_dict)
  result = BytesIO()
  pdf = pisa.pisaDocument(BytesIO(html.encode("ISO-8859-1")), 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")
```

```
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";
  }
}
```

### 8.5.3 GIT LINKS AND FOLDER STRUCTURE:

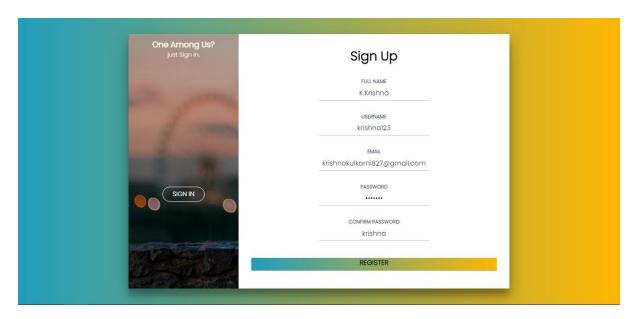


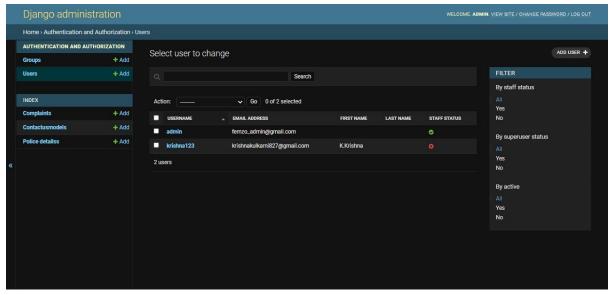
#### Link:

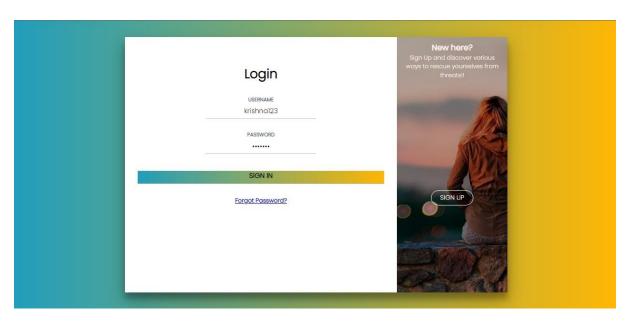
https://github.com/KulkarniKrishna/femzo\_website

# **8.6 TESTING:**

Register & Login: After registering the details the login can be issue.

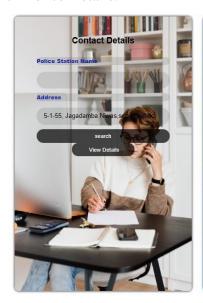








# Search Police Details:

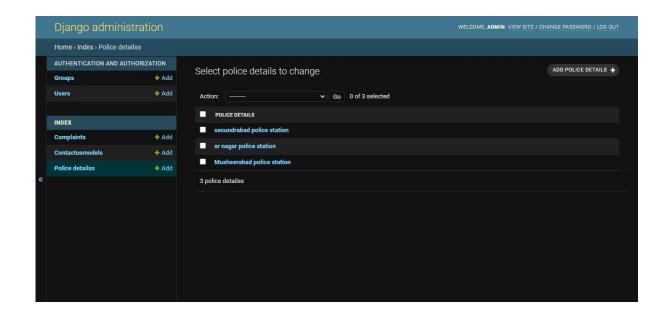




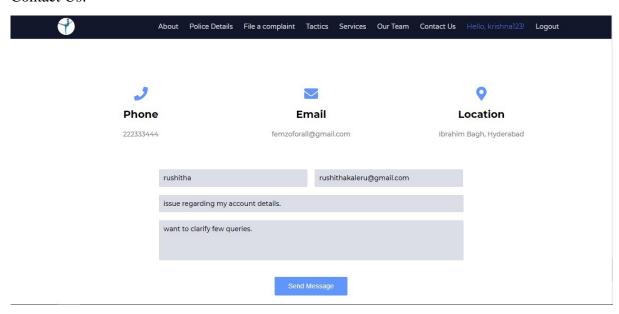
# View Police Details:

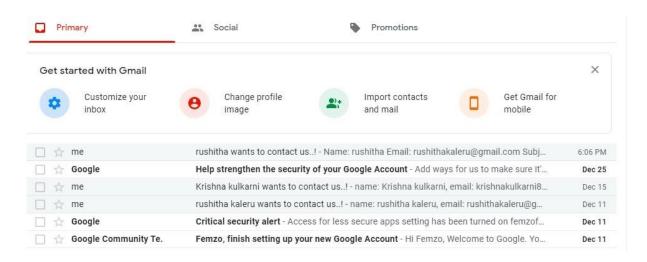


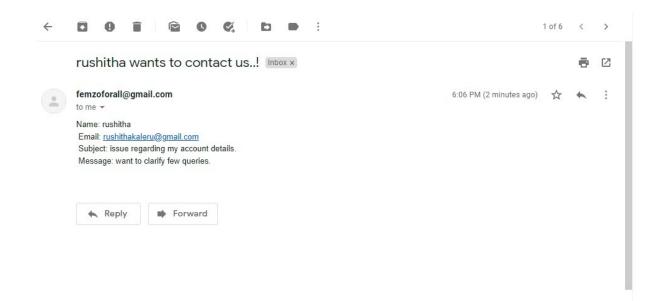


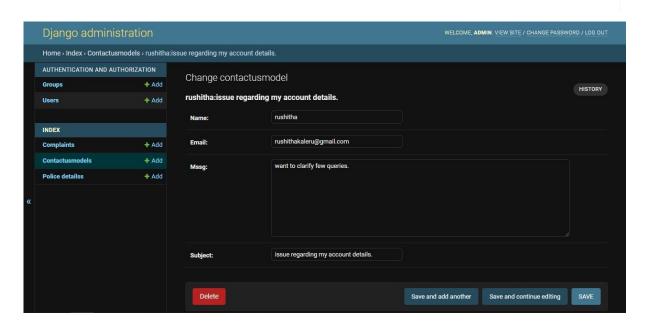


#### Contact Us:





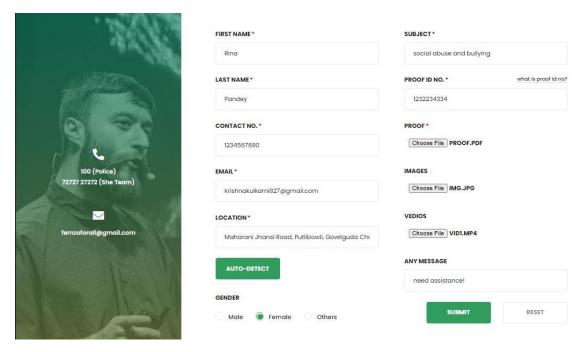


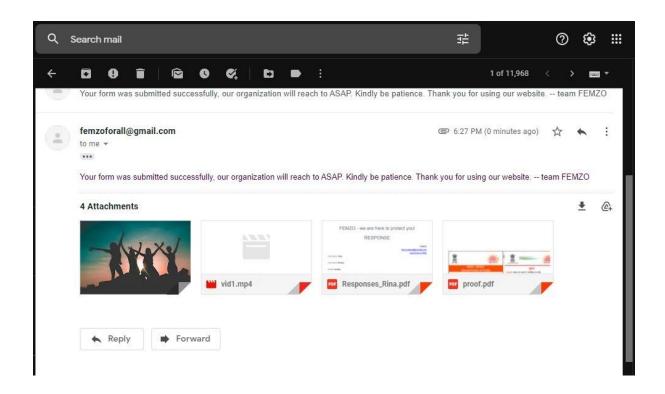


# **RESULTS:**

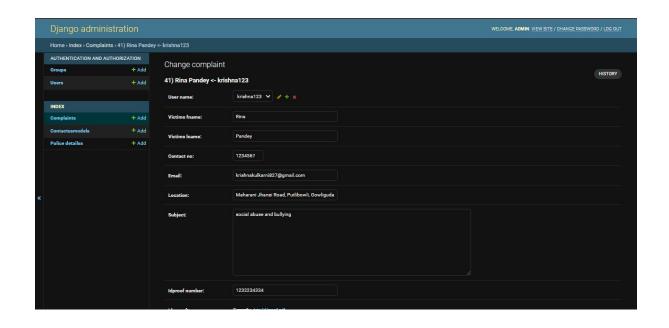
Compared to other devices our website 'FEMZO' has this special feature which no other website or application could provide. FAC- The victim or related guardians can file a complaint on the accused and an email will be sent to the help centres immediately after the details are authenticated. Also, the user gets a copy of all the details entered to registered email.

### FAC Screenshots:









### 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.

# **Future scope:**

- An efficient chat system between the user and the police officer can be introduced.
- Location prediction- When the location is entered by the user it gives an output whether it's safe or not.
- Also, the police station directions can be enrooted on google maps displaying the distance from their current location to the stations.

# **REFERENCES**

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