



Women's Security Web Application: Dear Sakhi - One Step Towards The Women's Security

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Abstract :-

Our country is facing a concerning rise in crimes against women. Ensuring the safety of women is crucial, and technology can play a vital role in addressing this issue. We need an application that can help women in distress. website is dedicated to addressing the safety concerns that women face in our country. Through our platform, women can easily file complaints, ensuring their voices are heard and action is taken quickly.

Using our map feature, finding the nearest police station becomes simple, providing urgent help when needed. We offer resources to empower women to stand up for their rights and seek assistance when necessary. Users can access information on relevant laws and acts related to women's safety, equipping them with legal knowledge and protections Our platform provides practical safety tips and engaging videos, giving women the tools and knowledge to navigate unsafe situations confidently.

KEYWORDS:

HTML, CSS, JavaScript, and PHP, Women Safety, Mapping, Motivation, Legal Information, And Complaint Registration Women's security applications.

Problem Statement :-

The web application is designed to address various aspects of women's safety and well-being. It offers several key features to provide a comprehensive solution. First, it allows users to easily file complaints, ensuring prompt and efficient handling of reported incidents. Second, it includes an integrated mapping feature that helps users locate and navigate to the nearest police stations, enabling quick access to assistance when needed. The application also provides motivational content and articles to inspire empowerment and resilience among its users. These resources not only uplift spirits but also educate and inform on matters related to safety and security. Additionally, the platform integrates information on relevant laws and acts concerning women's safety, promoting awareness and understanding of legal protections. The development of a women's safety and security web application presents an opportunity to address critical societal concerns using a multifaceted approach. This application, built using HTML, CSS, PHP, JavaScript, and SQL, aims to empower women by providing essential tools and resources

INTRODUCTION

In today's world, though we've made good progress in many ways, women often deal with scary safety issues just going about their day. The large numbers of upsetting actions like harassment, hurting, and unfair treatment of women shows how badly we need solutions that really work to protect them and make sure they feel okay. Because of this important need, web apps that focus on women's safety can help a lot.

We welcome you to our new website meant for women's protection and security. Where power meets technology to solve the many issues faced by women today. Our website offers different helpful tools and information to allow women to safely handle different parts of their lives with confidence. Whether registering complaints or getting legal help, self-defence lessons, career advice, motivation, or knowing about government plans - our website is a complete solution aimed at helping women's safety, security and power. In times when women's safety is a major worry, especially online, our website serves as an important place to solve many protection and security needs. Our website makes it easy for women to report issues like harassment, discrimination or other unfair treatment. It connects users with legal experts who provide advice on dealing with legal matters and getting help for problems allowed by law. Beyond just addressing immediate safety concerns, our app gives women knowledge and skills to stand up for themselves in different situations. Through step-by-step guides and training, users learn self-defence techniques and understand their rights when self-defence is needed. By giving women, the tools to protect themselves, our goal is to build confidence and control over their lives. This encourages strength and resilience as women gain power over their own situations.

This website is designed to ensure the safety of women. It will allow them to file complaints secretly without fear of societal judgment. The website will provide self-defence tips to enhance their safety. Additionally, it will educate women about various laws and government schemes related to their protection and wellbeing. The aim is to empower and motivate women to work towards a brighter future. The website will not only benefit women but also assist the police in tracking phones and handling complaints. This will enable the police to take legal action against perpetrators and provide justice to the victims.

Our web app is designed to help women stay safe, especially in cities where dangers may be higher. We've created a platform with practical tools and resources to empower women and give them confidence in various situations. At the heart of our app is an interactive map powered by Google Maps. This lets users see their surroundings in real-time, so they can easily find nearby safe areas, transportation options, and emergency services like police stations. This website ensures the safety of women. It will help women to complaint secretly without having any fear of society. It will provide self-defence tips for the safety purpose. Also, it will give the knowledge of various laws related to the women's and their safety, schemes which are beneficial for women. Along with that this will motivate them for their bright future. This website will not only helpful for the women but it will also help police for tracking their phones. Along with that police can check complaints and can take legal action against culprit or criminals and can give justice to that woman.

Literature Review:-

As part of my research, I looked into some existing women's safety websites on the market. The goal was to see how these websites work and how they could be improved or differentiated. In reviewing the research on projects focused on women's safety and security, it's clear that incorporating features like maps, motivation, legal information, and complaint registration into a website built with HTML, CSS, JavaScript, and PHP can significantly improve the effectiveness of these initiatives. Studies have shown that giving women easy access to maps that mark nearby police stations and safe areas can greatly boost their ability to seek help and move around safely. By using HTML and CSS to create a user-friendly interface and JavaScript to implement dynamic map features, our project can contribute to this effort, ensuring women have the information they need to stay safe in their communities.

In the research we found that, the imperative need to combat gender-based violence and guarantee the safety of women in a variety of settings has led to a notable increase in interest in women's security applications in recent years. These apps have many features designed to improve the safety of women, such as crowdsourced incident reporting, emergency alarm systems, and real-time tracking. Several studies have demonstrated how beneficial these applications are at giving women a sense of empowerment and security, especially in metropolitan environments where safety worries are common. Furthermore, these apps frequently incorporate functions like trusted contacts, geolocation, and support resource access, which makes it easier to react quickly to potentially hazardous circumstances. Even with their potential advantages, problems including privacy invasions, technology constraints, and accessibility problems still need to be researched and developed.

We have found some advantages as well as limitations. There are some devices that integrates GSM/GPS alerting and location tracking along with offensive capabilities. Some users may find these devices complex to set up and operate, which could be problematic in high-stress situations when quick and simple actions are needed.[1] Some applications consists features like Alerting family members and police in emergency, check whether the root is safe or not. SOS call/message. Along with this they consumes significant battery power, especially if they run continuously in the background or use location services frequently. Users may accidentally trigger the panic mode or emergency call feature, leading to false alarms. [3] In remote or areas with poor network coverage, these apps may struggle to send alerts or provide accurate location information, reducing their effectiveness. [2] If a user's smartphone is lost or stolen, the security app's features may become inaccessible or misused by the person who finds or steals the device. [4]

This Website, is designed to enhance women's security. The key features include the user needs to save some details, such as their email address, password, the recipient's email address and mobile number, as well as a text message.

Motivation is crucial for empowering women to take action and advocate for their safety. Research shows that personalized motivational messages can effectively boost confidence and encourage women to assert their rights. By using JavaScript to deliver tailored messages based on user interactions, our project can provide the support and encouragement women need to prioritize their safety. a well-designed complaint registration system is crucial for addressing incidents of harassment and violence against women. Studies show that streamlined and user-friendly reporting mechanisms can improve the rate of complaints and ensure they are handled promptly and effectively. By developing a secure and efficient registration system using PHP, our project can facilitate the reporting process, giving women a safe and confidential way to seek assistance and justice.

By incorporating mapping, motivation, legal information, and complaint registration features into a website built with HTML, CSS, JavaScript, and PHP, our project can contribute to the broader efforts to promote women's safety and security. Drawing insights from existing research, we can design a platform that empowers women to navigate their environments with confidence, access essential resources, and seek support when needed.

METHODOLOGY

Creating a web application focused on women's safety and security requires several important components, such as user login, incident reporting, mapping tools, self-defences information, legal guidance, and motivational content. Here's a step-by-step approach to implementing these features using JavaScript, HTML, and CSS.

1. the website will have a login page that allows both users and police officers to register and log in. To log in, the website will only accept valid passwords as login credentials.
2. After logging in, users can access the home page, which will include various options like "Register Complaint," "Self-Defence". Users can explore these options as needed.

Frontend: For the website's front-end, where users can see and interact, we'll use HTML, CSS, and JavaScript. This includes the graphical user interface (GUI), command line, design, navigation menus, text, images, videos, and more. We'll ensure the content is clear and easy to understand, we will be using HTML and CSS, JS language.

Backend: Develop APIs for user authentication, complaint registration, and retrieving nearby police stations. Store user data safely in a database like MySQL with PHP.

XAMPP server: XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself.

Planning and Design:

- Identify the target audience and their requirements.
- Create sketches of the website's structure and user journeys for each feature.
- Decide on the technologies and tools to be used (such as JavaScript, HTML, CSS, Visual Studio Code).
- Select a design that emphasizes usability and accessibility.
- Link the front-end and back-end parts.
- Thoroughly test each feature, including unusual situations and error management.
- Confirm the website works well across different browsers and devices.

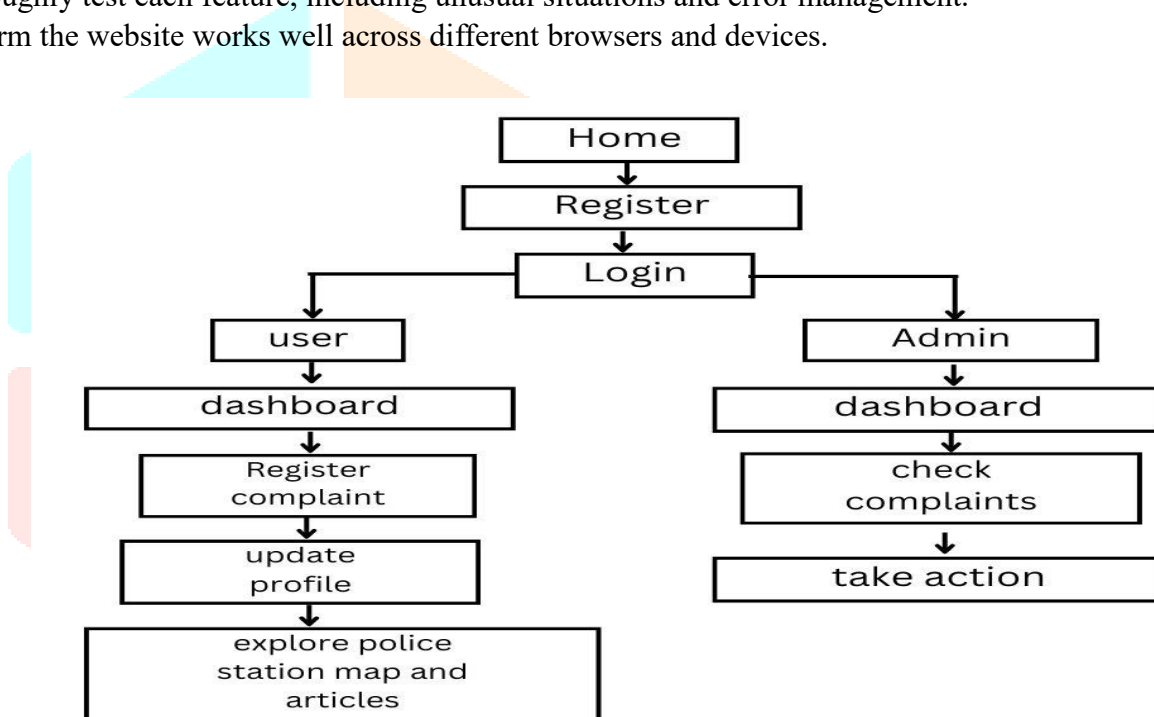


Fig 1. System flowchart



Fig 2. Register Complaint

- File a complaint: Women can report their complaints here, and the police will then take legal action.
- Self-defence: Tips on self-defence will be provided to help women protect themselves in any situation.
- System Maps: The Mumbai map with all police stations marked allows women to easily find the nearest police station. The visual representation makes it more accessible and user-friendly.

RESULT AND ANALYSIS

Sr no.	Name of Research paper	Technology used	Limitations
1.	Self Defence Device with GSM Alert and GPS tracking with fingerprint verification for women safety	GSM, GPS, FPR, HVLC	Users may find these devices complex to set up & operate, which could be problematic in high-stress situations when quick and simple actions are needed.
2.	TECHNOLOGY100 – An Application for WomenSafety	Flutter,GPS, QR code, SOS	1. Consumes significant battery power, if they run continuously in the background or use location services frequently. 2. In remote or areas with poor network coverage, these apps may struggle to send alerts.
3.	A Mobile Application for Women’s Safety: WoSApp	Android studio,GPS	Users may accidentally trigger the panic mode or emergency call feature, leading to false alarms.
4.	E-Defence Women Safety Application	Voice command, safe region, offline, android studio, SOS	If a user’s smartphone is lost or stolen, the security app’s features may become inaccessible or miss used by the person who finds or steals the device.



Fig 3. Home page

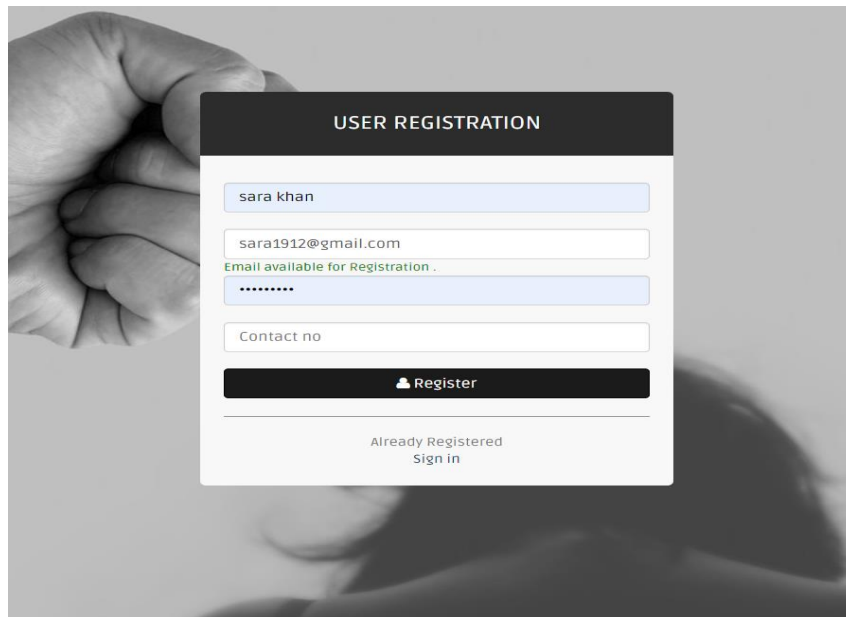


Fig 5. Home page

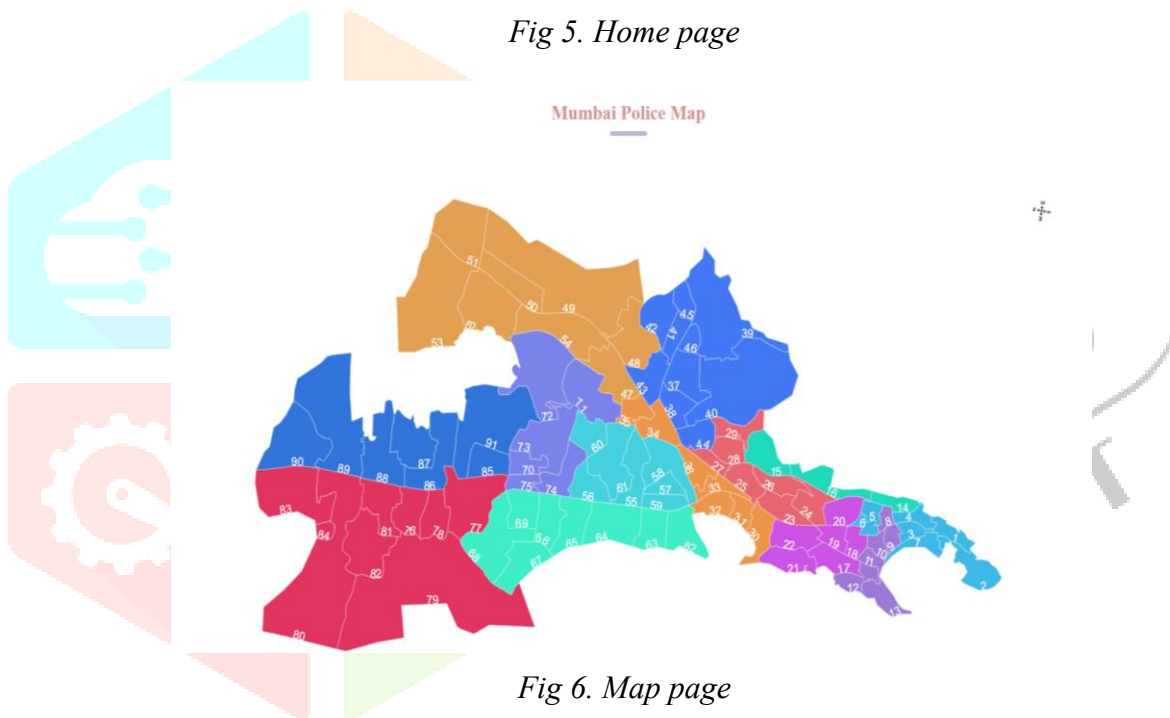


Fig 6. Map page

FUTURE WORK

Looking ahead, we have exciting plans to upgrade our women's safety website. Our goal is to make the platform even more user-friendly and effective in supporting women in need. First, we'll improve the map feature by integrating advanced mapping technologies using JavaScript. This will allow users to not only locate nearby police stations but also see their surroundings more clearly, helping them find safe routes and access emergency services more easily. Additionally, we plan to use JavaScript to create interactive elements that offer personalized motivational messages to users. By analysing user preferences, we can tailor messages that resonate with each individual, encouraging them to stay strong and seek help when needed.

Expanding our legal information section, we'll use PHP to create a more comprehensive database of relevant laws and acts regarding women's rights. This will allow users to easily access accurate and up to-date information, empowering them with knowledge to protect themselves and advocate for their rights. Additionally, we'll enhance our complaint registration system using PHP to improve efficiency and security. By implementing features like encrypted data storage and automated case tracking, we can ensure every complaint is handled promptly and

confidentially, providing women the support they need to address safety concerns. Overall, by leveraging HTML, CSS, JavaScript, and PHP, we're committed to advancing our women's safety and security project, making it more accessible, empowering, and effective in promoting the well-being of women in our community and beyond.

CONCLUSION

Women's safety initiative is designed to make meaningful progress in ensuring the well-being of women everywhere. We've included features like an easy-to-navigate map that highlights nearby police stations and safe spaces, making access to assistance straighter forward and prompt. By incorporating motivational messages, we aim to uplift and empower women, reminding them of their strength and resilience. Clear information about laws and rights, delivered through user-friendly, ensures that everyone can understand their entitlements and access legal support when required.

As we wrap up our project focused on women's safety and security, we've used HTML, CSS, JavaScript, and PHP to create a comprehensive platform. This platform aims to protect and empower women. With HTML, we've built a sturdy foundation for our website, ensuring it's well-structured and accessible to all users. CSS has helped us design a visually appealing and easy-to-navigate interface. JavaScript plays a crucial role in adding dynamic features to our website. It enables the map functionality, allowing users to easily locate nearby police stations for immediate assistance. Additionally, JavaScript powers the motivational messages feature, providing encouragement and support to women in need. Moreover, PHP serves as the foundation of our backend system. It facilitates the registration of complaints and the sharing of information about laws and acts related to women's rights. With PHP, we've created a secure and efficient process for users to report incidents and access legal resources. Our project utilizes HTML, CSS, JavaScript, and PHP to build a safer space for women. By tapping into technology, we empower women to assert their rights and access vital resources and support when needed. Our goal is to foster a community where every woman feels secure and valued.

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