Community Based Reporting and Monitoring Tool for Women's Safety in Colleges/Universities

Overview

Our Team

Sujalsingh Bais

Deepti Gudadhe

Kajol Jambhulkar

Pranav Borkar

Introduction

In response to the imperative to ensure the safety of women in colleges and universities, a community reporting and monitoring tool is being implemented. This tool is designed to empower the campus community by providing a platform for anonymous reporting of safety issues and using technology to streamline the process. The aim is to promote a safer environment for female students and promote a culture of awareness and responsibility in educational institutions.

Objective

- Develop predictive analytic models to prevent mishaps before they occur.
- Address the lack of manpower for proactive interventions in women's safety.
- Establish, monitor, predict, and provide actionable intelligence for the prevention of mishaps.

Methodology

1 Analysis:

- Conduct surveys, interviews, and focus groups to understand the safety concerns and needs of women on campus.
- Identify existing gaps in security measures and reporting processes.

2.Stakeholder Engagement:

- Work with female students, teachers, leaders, and local officials to gather diverse perspectives.
- Involve key stakeholders in the decision-making process to ensure the tool meets the needs of the community.

3.Users - User-centered design:

- Use a user-centered design approach to create teaching tools that are easy to use and accessible.
- Conduct usability tests with agents to improve the tool interface and functionality.

4.Community Promotion and Education:

- Conduct outreach efforts to educate the community on promotional tools.
- Provide training on proper and responsible use of equipment.

5.Integration with existing systems:

- Explore integration with existing systems such as security measures and pipelines messaging.
- Ensure good communication and collaboration with other security projects.

6.Data Analysis for Pattern Recognition:

- Perform predictive analysis to identify patterns and trends in reported events.
- Try to solve security issues using data insights.

7.Real-time monitoring and dashboards:

- Create a real-time monitoring system with different interactive dashboards.
- Ensure rapid response to emerging security issues by providing administrators with instant information.

8.Community Feedback Loop:

- Create a feedback loop to continually improve the reporting tool.
- Encourage users to provide feedback on their experience, allowing for further improvements.

9.Rapid Response Protocol:

- Develop and communicate a protocol for rapid response to the student body, school administration, and law enforcement.
- Establish effective communication systems that enable rapid response to public events.

10.Privacy and Ethical Considerations:

- Prioritize protecting privacy in data collection and storage.
- Be ethical when using technology and security products.
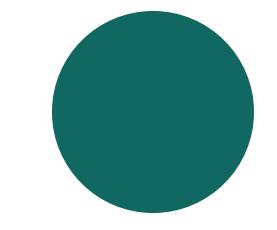
Expected Outcomes

- **Proactive Safety Culture:**

- Create a safety culture in the College.
- Focus on preventing accidents rather than dealing with them after they happen.

2.Early Prevention:

- Reduce the risk of security incidents through the use of standardized testing methods.
- Establish timely responses to address risks before they escalate.

3.Quick Service:

- Good cooperation between students, management and local authorities helped facilitate a rapid and effective response.
- Shorten incident response time by improving communication.

Expected Outcomes

4.Community empowerment and institutional responsibility:

- Empower all students in the community by participating in safety initiatives.
- Create a framework for collaboration to promote commitment to school safety.

5.**System reporting and monitoring:**

- Enable reporting and system monitoring through an interactive dashboard.
- Enhanced data visualization allows managers to make informed decisions instantly.

Challenges

1.Privacy Concerns:
Balancing the need for anonymous reporting with ensuring user privacy can be difficult, as users may not be willing to disclose personal information.

2.User Adoption:
Encouraging widespread use of technology in the student community can be difficult and requires effective communication and advocacy.

3.Cultural Sensitivity:
Addressing cultural differences and sensitivities regarding incident reporting is important but also challenging because perceptions of safety will vary among students based on different demographics.

4.Community Trust:
Building and maintaining community trust can be a constant challenge, especially around privacy and the effectiveness of media tools.

Research Papers

- https://www.studocu.com/in/document/rajasthan-technical-university/material-science-and-technology/women-safety-report/61798279
- https://www.studocu.com/in/document/shri-sant-gajanan-maharaj-college-of-engineering/mechanic-to-be/pro-women-safety/60758903
- https://www.usbytesoft.cloud/smart-india-hackathon/94
- https://www.researchgate.net/publication/334204443_Software_Controlled_System_for_Ensuring_Safety_and_Security_of_Women_with_Reporting_Vulnerabilities
- https://github.com/topics/women-safety

THANK YOU