

Project title: Enhancing Women Safety and Holistic Care Using IoT Technology

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Abstract

Ensuring the safety of women in vulnerable situations is an imperative societal concern. Women are particularly at risk when traveling alone on deserted roads, making their safety a critical issue that affects their daily lives, limits their mobility, and restricts their opportunities. Threats such as street harassment, cyberbullying, domestic violence, and workplace exploitation continue to endanger their security.

Existing systems often rely on alarms that notify nearby individuals and provide real-time location tracking. Some safety devices integrate GPS and send immediate alerts but fail to capture and transmit images of the user's surroundings. Personal safety apps on smartphones offer location tracking but require phone access, which may not be possible during emergencies. Additionally, many existing systems have limited connectivity, relying on basic text messages rather than real-time video transmission.

This proposed project introduces an IoT-based Women's Safety Device, a portable and user-friendly system designed to provide immediate assistance during emergencies. The device integrates GPS technology, a live camera module, and a communication system to deliver real-time location tracking, visual evidence, and automated alert notifications to emergency contacts and law enforcement authorities. Unlike existing systems, our project features an enhanced video capturing capability, ensuring comprehensive monitoring and response. This innovative safety solution is compact, lightweight, and cost-effective, making it suitable for widespread adoption.