IOT BASED WEARABLE DEVICE FOR THE SAFETY AND SECURITY OF WOMEN AND GIRL CHILDREN

Himanshi Deep 2130182

Project Group No.-Ecsc-44

Abstract: This abstract introduces an IoT-based wearable device for women and girls' safety. It integrates GPS-GSM, accelerometer, and heart rate sensors to detect falls and anomalies, triggering SOS alerts when activated. Real-time location data and emergency signals are sent to designated contacts. The device includes geo-fencing, alerting users upon entering or leaving safe zones for proactive monitoring in diverse environments.

Individual contribution and findings: For my individual contributions, I played a lead role in planning out the project and its workings. I was a continuous part of the hardware implementation, providing my insights and help throughout the way. Besides this, my writing and creative skills were put to use while working on the report and presentation and thoroughly editing every bit of it.

Individual contribution to project report preparation: For the project report, my contribution was in Chapter 1 and Chapter 6. I emphasized on our motivation towards choosing the project and our prime objectives as we navigated through it. I conducted a thorough literature review to inform device design and functionality, focusing on user-centered approaches and emerging IoT trends and emphasizing the importance of real-time data analytics and user engagement. I also contributed to the conclusive remarks, wherein we have discussed the future scope of our project and advancements we can make to further optimize our device.

Individual contribution for project presentation and demonstration: The project presentation was a group effort with equal contributions from each of the members. My contribution was towards the introductory slide, the objectives and our motivation along with showcasing some real life examples that prompted us to choose this project, and the conclusion.

Full Signature of Supervisor/s:

Full signature of the student: