

**AFTER WE WERE ACCEPTED TO THE SUIT PROGRAM  
CONDUCTED BY HAVELSAN, WE CHANGED OUR PROJECT TO  
POST-DISASTER COMMUNICATION.**



# **TED UNIVERSITY**

**CMPE 491 / SENG 491 Senior Project**

**Post-Disaster Communication**

**Project Proposal**

**Fall 2024**

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<b>Project Name:</b> Post-Disaster Communication
<b>Project's URL:</b> <a href="http://afetsonrasihaberlesme.com">afetsonrasihaberlesme.com</a>

## Project Idea Description

This project is a disaster response system designed to enhance safety and communication during emergency scenarios. It integrates IoT sensors to detect anomalies such as seismic waves, temperature fluctuations, or rising water levels. Once a potential hazard is detected, notifications are dispatched to a centralized web application and mobile users. Mobile users receive an "Are You Safe?" alert and can respond accordingly. If a user marks themselves as unsafe or fails to respond within a specified timeframe, the system escalates by displaying their details (name, location, and contact information) on a monitor for further action. The system also notifies their pre-designated emergency contacts.

The mobile application includes features like user registration, adding/removing emergency contacts, editing personal details, and receiving/sending alerts. The web application is designed for centralized management, enabling real-time monitoring of sensor alerts, user responses, and directing information to relevant emergency units. This integrated system ensures timely intervention and provides a robust safety net for users and their loved ones during emergencies.