



Problem Description

Walking alone or facing a medical emergency can make anyone feel unsafe, especially at night or in unfamiliar areas.

In such moments, calling for help isn't always possible, and most solutions still rely on constant user interaction.

Architecture

- Android app
- Back-end server managing journeys, setting/contact synchronization and notifications
- Web map
- Smartwatch integration



Features

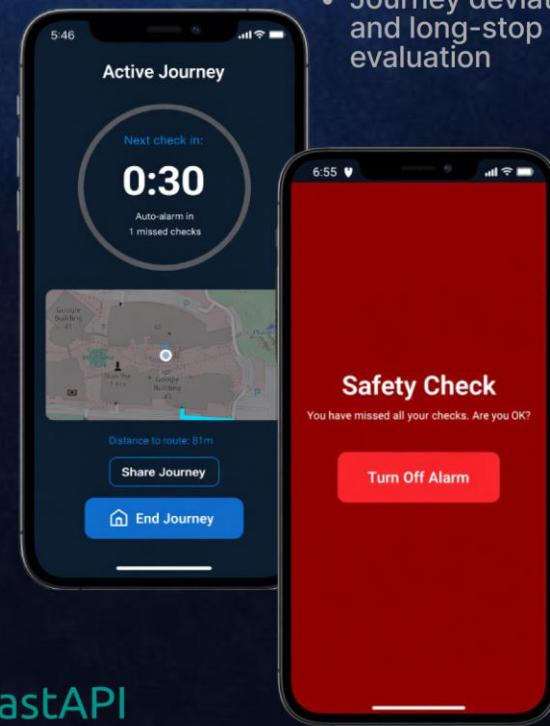
- Safety check-in
- Location tracking
- Journey planner
- SMS and Email notifications
- Auto alarm
- Sound recording in emergency
- Journey sharing
- Smartwatch support
- Journey deviation and long-stop evaluation

Application Usage

The user starts a journey, after which the application continuously monitors location and activity. If a scheduled check-in is missed, an alert is triggered and selected contacts receive a notification.

Current State

- Mobile app for Android fully developed, installation .apk ready for deployment.
- Back-end server implemented and operational, currently hosted on a home lab environment.
- Web map interface deployed and accessible via the school's Gitlab pages



FastAPI