TOP STUDENT PROJECTS

Best innovations from VTU Regional Centre, Belagavi

PROJECT TITLE
CAMPUSCONNECT



Team - Nexus

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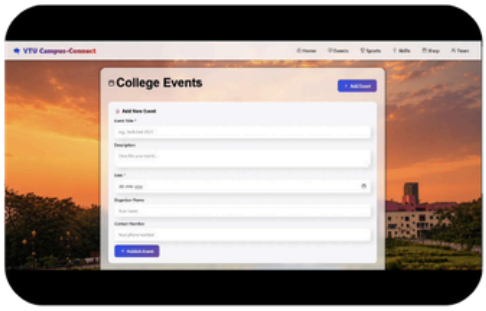


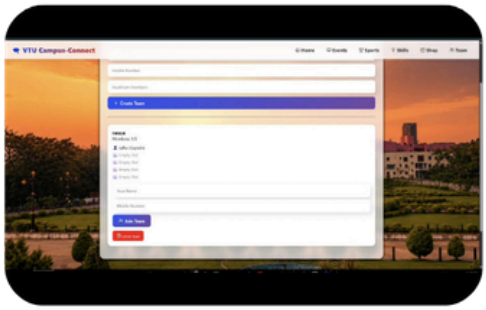
PROBLEM STATEMENT

Visually impaired individuals face challenges in navigating unfamiliar environments due to limited access to affordable assistive technologies. The lack of real-time voice guidance, GPS navigation, and obstacle detection reduces their safety, mobility, and independence in daily life.

SOLUTION

The proposed Android application provides a smart navigation solution for visually impaired individuals using real-time voice guidance, GPS-based navigation, and obstacle awareness features. It delivers spoken directions, detects nearby obstacles, and guides users safely to their destinations with minimal assistance. The application is affordable, user-friendly, and designed to enhance accessibility in everyday travel. By improving navigation accuracy and personal safety, the solution promotes greater independence, confidence, and mobility while supporting an inclusive and accessible environment for visually impaired users.





SCAN ME

Technology stacks:

- Kotlin
- Android SDK
- SQL
- API's
- AWS
- Node.js
- TTS