InSight: In Your Eyes

Mobile GIS and LBS Project

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Introduction

Background:

- Vulnerable group, like elderly and visually impaired people are not easy to use navigation apps and stay safe.
- Increasing demands for an app to provide reminders and guides for navigation and safeguards.

Topic:

Develop a mobile app to help vulnerable people find ways.

Generics

Name	InSight	
Slogan	In Your Eyes	
Target audience	Elderly or visually impaired people	
Objectives	 Help target people to locate themselves Help target people to find their way easily (Audio Guide) Provide emergency services 	

Methodology

Functions		
GIS	Locate yourself	
	Search location	
	Add location marker (home, places often visited)	
	Navigation	
LBS	Reminder (time, task, location)	
Others	Output in sound	
	Emergency Contact	
	Call hospital and navigation	
	Personal information (Personal health info, contacting info)	

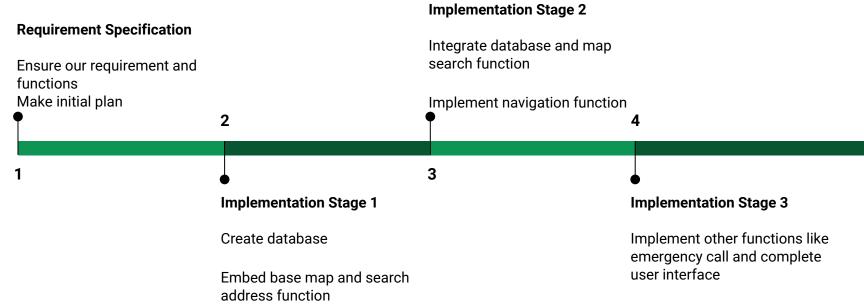
Technology Domain

Tools & APIs	
Google API	Provide base map, last location, geocoding / decoding, navigation, add self-defined mark
Local file	Provide the reminder table
Android SDK	UI, AVD to test
TextToSpeech	Voice output

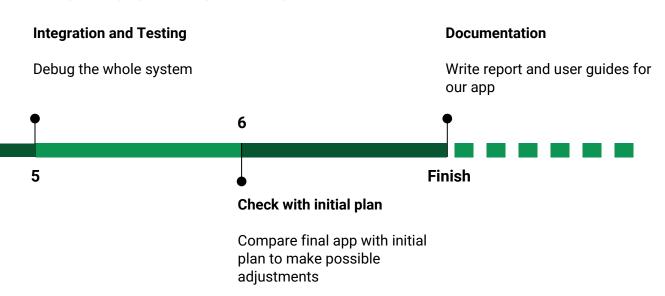
Methodology - Special Consideration

Special consideration on the audience		
Elderly-friendly UI	Help page, bold and larger front of text, larger size button	
Voice as part of output	Aim at people with poor eyesight	
Simple operations	User friendly for elderly people	

Drafted Workflow



Drafted Workflow



Preliminary Result

Requirement specification

Related APIs and packages

Find references, Github codes

aar aar	prcessing detached head
п арр	update Gradle version
gradle/wrapper	update Gradle version
svgpathview	update Gradle version
gitignore	Initial commit
README.md	Update README.md
_config.yml	Set theme jekyll-theme-architect
build.gradle	update Gradle version
gradle.properties	Initial commit
gradlew	update Gradle version
gradlew.bat	Initial commit
settings.gradle	refactor package structure

Thanks!