

Preliminary Project Plan

Team Members:

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Team Website

<https://se6361vision.github.io>

For SE6361.001

Professor: Dr. Lawrence Chung

1. Project Overview

This project is to create a smartphone app to help blind people navigate indoors. Blind people traditionally have used a service dog or a cane along with braille indicators on the wall to help guide them; however it would be even better if they can download the app that would help them with directions and become more familiar with the layout of the building. The app would help blind people navigate step by step from one destination to another by guiding them through a certain distance and when to stop as they reach the end of a hallway and then turn right. It should be able to detect obstacles and tell the user what to do in order to avoid the collision.

2. Project Deliverables

Deliverable Name	Date	Team Leaders	Tools
Preliminary Project Plan	01/27/22	Sailesh Sriram	Google Docs
Interim Project I	03/08/22	Visshwak Jeyakumar	Android SDK
Final Project I Submission	03/25/22	Mohit Anand	TBD
Interim Project II	04/19/22	Rupin Jairaj	TBD
Final Project II Submission	04/26/22	Wenlong Yang	TBD

- Evolution of this document
 - This document will be updated as the project progresses. Updates should be expected in the following sections:

3. Revision History

Version	Date	Updated by	Update Comments
1.0	27th Jan, 2022	Team	Initial Doc

4. References

- Team Website:
<https://se6361vision.github.io>
- Project Scope:
<https://personal.utdallas.edu/~chung/RE/Project1.pdf>
<https://personal.utdallas.edu/~chung/RE/Project2.pdf>
- Course Home Page:
<https://personal.utdallas.edu/~chung/RE/syllabus.htm>
- Definitions, acronyms, and abbreviations:

5. Project Organization

- Process model
- Organizational structure
 - a. Team Members –
 - Madhura Banerjee (Moi)
 - Sailesh Sriram
 - Wenlong
 - Visshwak
 - Mohit
 - Rupin Jairaj
- Organizational boundaries and interfaces
- Project responsibilities
 - a. Preliminary Project Plan- 27th Jan, 2022
 - b. Requirements Specification - TBD
 - c. Analysis - TBD
 - d. Architectural Design - TBD
 - e. Object/Component Design - TBD
 - f. Coding - TBD
 - g. Testing - TBD
 - h. Final Product -TBD

6. Managerial Process

- Management objectives and priorities
- Assumptions, dependencies, and constraint
 - Team
 - Equipment and Software
 - Funding approval
 - Location services approval
 - Google maps? (something about allowing google to use their maps in the app maybe?)
- The project dependencies are as follows
 - Time
 - Budget
- The project constraints are as follows
- Risk management
 - Financial risk
 - People risk
 - Structure risk
 - Monitoring and controlling mechanisms

7. Technical Process

- a. Methods, tools and techniques
- b. Software Documentation
- c. Project support functions

8. Work Elements Schedule and budget