

Enhancing Accessibility In Public Transportation for Blind Individuals

Research Proposal Outline

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1. Introduction

- Introduce the research topic: enhancing accessibility in public transportation for blind individuals.
- Explain the significance of the topic and its impact on the lives of blind individuals.

2. Problem Statement

- Summarize the challenges faced by blind individuals when using public transportation, as identified in my previously literature review.
- Discuss the limitations of existing solutions, such as BlindSquare, Moovit, Be My Eyes, and Google Maps.

3. Objectives and Aims

- Clearly state the objectives and aims of my research project, which should focus on addressing the gaps in existing solutions.

4. Proposed Solution

- Describe a proposed solution, including how it will address the identified gaps and improve accessibility, accuracy, and awareness.
- Discuss the potential use of Voice UI with AI or Nature Language Interface (NLI) support, IoT technologies, and other innovative technologies in the solution.

5. Methodology

- Explain the research design and methods my plan to use to develop, implement, and test the solution.
- Explain the methods plan to use for data collection and analysis.
- Justify my choice of methodology and discuss any limitations or challenges the anticipate.

6. Expected Outcomes and Impact

- Describe the anticipated results of the research, including how the solution will improve the experience of blind individuals using public transportation.

- Explain the potential implications of the research for public transportation systems, policy, and future research in the field.

7. Timeline and Budget

- Provide an estimated timeline for the research project, outlining major milestones.
- Present a budget for the research, including funding requirements and potential sources of funding.