Slide 1 - Introduction

Hello everyone, and welcome to our project proposal presentation. Today, we'll be discussing an innovative device concept that our team, Group 25, will be working on our next academic year. The device is called the Audio Interface with Camera, or AIC for short. We're eager to share our ideas and plans with you all. So, let's dive in and explore the potential of the AIC.

Slide 2

In this presentation, we will cover the following topics: Overview, Project selection, Project outline, role distribution, schedule and risk assessment.

Slide 3

In the following section, we'll provide a brief introduction to the Audio Interface with Camera (AIC) project, as well as its purpose and similar existing projects. This will set the stage for our discussion later on project.

Slide 4 -

The Audio Interface with Camera, or AIC, is an innovative audio interface that incorporates an integrated camera. It is specifically designed to assist blind and visually impaired individuals as they navigate through streets and public spaces. Our project aims to combine advanced technology with user-friendly features to enhance mobility and independence for those facing vision challenges.

Slide 5 - Existing Projects

Before we discuss our AIC project in detail, let's take a moment to compare and contrast three existing projects in the field of assistive technology for the visually impaired:

1. The first project The vOICe’ involves a Soundscape headset that allows blind people to "see" the world. This system uses a visor camera to convert images into intricate soundscapes, which are then transmitted to the user through headphones.

2. The second project 3D sound map is an Augmented Reality (AR) navigation app designed to guide blind individuals in the right direction. It serves as a complementary tool to hardware devices or guide dogs.

3. The third project Handheld robotic guide dog uses sensors, cameras, and algorithms to detect obstacles and provide real-time feedback to blind people through audio signals, incorporating voice recognition technology.

While these existing projects have made significant strides in improving the lives of visually impaired individuals, our AIC aims to further enhance accessibility and user experience by integrating the best aspects of these technologies into a single, comprehensive solution.

Slide - Conclusion and Reflection

As we wrap up our presentation, let's summarize our key takeaways and reflect on the learning experience.

Conclusion:

1. Our primary goal with the AIC is to improve the quality of life and independence of visually impaired individuals.

2. To achieve this, we recognize the importance of careful planning, collaboration, and resource management.

3. We have conducted a comprehensive risk assessment to identify potential roadblocks and challenges that could impact the success of this project.

Reflection:

Communication: Our team has been holding weekly in-person meetings with clearly defined goals, ensuring that everyone stays informed and engaged in the project.

Workspaces: We have utilized Github for version control and collaboration on the project's workspace, as well as shared Google documents for easy access and editing of project materials.

Areas for Improvement: We recognize that finding a more comfortable environment for group meetings could enhance productivity and collaboration among team members. By optimizing our meeting space, we can create a more conducive atmosphere for brainstorming, problem-solving, and effective communication.

Thank you for your attention, and we hope our AIC project proposal has provided valuable insights into the potential of this assistive technology. We are excited to embark on this journey and contribute to making a meaningful impact on the lives of visually impaired people.