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The GuideBot

Introduction

The GuideBot is an innovative tourism and educational solution that assists tourists by providing interactive, multilingual support.

Problem Statement

Visitors often face challenges when they are new to a place and lack proper guidance or information, leading to confusion and a less enjoyable experience.

Constrains

1. Budget Under 6000 SR
2. Earshot within 1 meter
3. Hallucination
4. Static & Dynamic Obstacles

Target Specifications

Accuracy of The Distance = 0-1 m

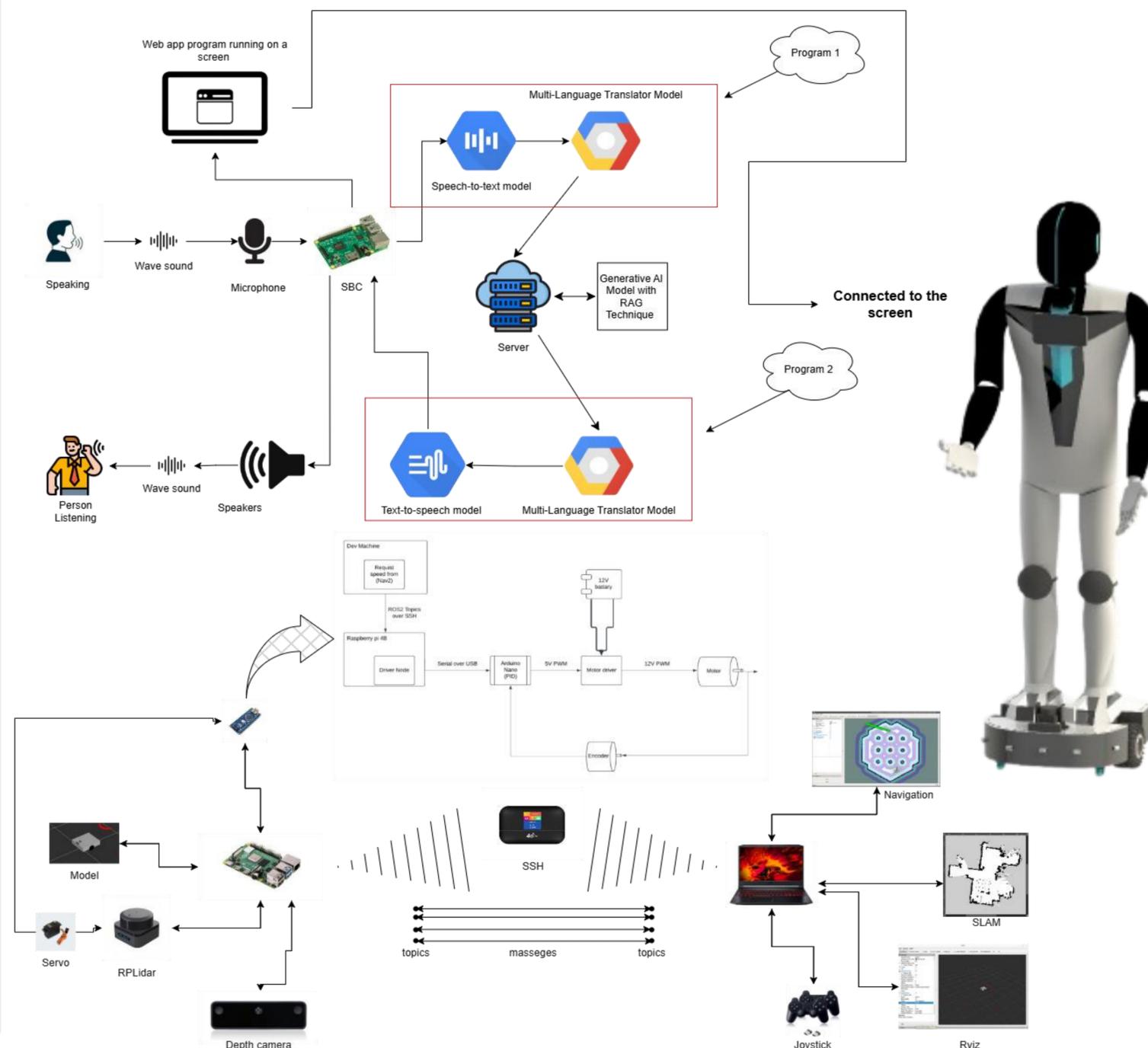
Max Speed of Robot \approx 1.5 m/s

Time of Conversation Response \leq 15 Seconds

Height of Robot = 150-170 cm

Weight of The Robot \leq 25Kg

Final Design Details



Validations

- ✓ Height of Robot = 160 cm
- ✓ Weight of The Robot = 15Kg
- ✓ Time of The Response = 11 Seconds
- ✓ Max Speed of Robot = 1.5 m/s

Project Impacts

- ✓ Economic
- ✓ Social
- ✓ Environmental

Conclusions

The GuideBot tackles the challenge of low visitor numbers in new and unattractive places by offering a mobile, user-friendly, and cost-effective solution. By enhancing accessibility and providing seamless guidance, it encourages more people to explore and engage with such locations, transforming their experience into an informative and enjoyable journey. Moreover, The GuideBot motivates and inspires those who are reluctant to visit less attractive destinations, turning them into vibrant and appealing spaces worth exploring. This aligns with Saudi Arabia's Vision 2030, which aims to increase the number of visitors and promote the country as a leading destination for cultural and recreational experiences.