Project Synopsis

Project Title:

"General Purpose Chat-bot for Describing the World"

Submitted by:

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Submitted on: **19th August 2019**

Preferred Project Guides:

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Abstract

Chat-bot- also known as "Conversational agents" are software programs that mimic written or spoken human speech for the purpose of simulating a conversation or interaction with a real person. By using this concept of chat-bot and visual detection we propose a system that helps people understand about the environment. This is mainly focused to help visually impaired people to hear and understand what is around them. They can ask questions to the bot through natural speech and it will return back answer. The system analyses the speech and also uses a camera to take the picture of the scenery and return back the answer with respect to that question.

Objectives

1. Converting human speech to text.
2. Answering the questions asked by the users about the given scene by using Visual Question Answering model.
3. Identifying any important elements from a scene.
4. A Chat-bot system for conversing with users.
5. Describing about the current scene or any changes.
6. Android/Web Application as the final product.

Future Development

1. Optimizing the model for mobile devices.
2. Processing Speech Queries to interact with other application or internet.