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Project Name: Currency Detector App for Visually Impaired

Currency Detector App for Visually Impaired

Main problems faced by people with visual disabilities is the inability to recognize the paper currencies due to the similarity of paper texture and size between the different categories. These people face a lot of difficulty in their monetary transactions. This application can help visually impaired to recognize money. In this application blind people can speak and give command to open camera and camera will click the picture of note and tell the user by speech medium how much rupee note it is. This system uses speech to text to convert command given by blind people, Speech recognition is the interdisciplinary subfield of computational linguistics that develops methodologies and technologies that enables the recognition and translation of spoken language into text. For the result purpose this system has text to speech concept which helps to read the value of note and then it converts the text value into speech. Android allows to convert your text into voice. Not only you can convert it but it also allows you to speak text in variety of different languages.

❖ **Modules:**

The system comprises of 1 major module with their sub-modules as follows:

1. **User:**

   - **Currency Detection:** azure custom vision api using Machine learning classification technique

   - **Dial a Contact:** User can also give command to dial a call.

Project Lifecycle:

Description

The waterfall Model is a linear sequential flow. In which progress is seen as flowing steadily downwards (like a waterfall) through the phases of software implementation. This means that any phase in the development process begins only if the previous phase is complete. The waterfall approach does not define the process to go back to the previous phase to handle changes in requirement. The waterfall approach is the earliest approach that was used for software development.

Android

❖ **Hardware Requirement:**

1. **Laptop or PC**

   - ➢ i3 Processor Based Computer or higher
   - ➢ 1GB RAM
   - ➢ 5 GB Hard Disk

2. **Android Phone or Tablet**

   - ➢ 1.2 Quad core Processor or higher
   - ➢ 1 GB RAM

❖ **Software Requirement:**

1. **Laptop or PC**

   - ➢ Windows 7 or higher.
   - ➢ Java
   - ➢ Android Studio

2. **Android Phone or Tablet**

   - ➢ Android v5.0 or Higher

❖ **Advantages**

- This application will help blind people to know the value of the money.
- Blind person can also call the person from contact by giving command.

❖ **Limitation**

- This application requires active internet connection.
- User need to put correct data or else it behaves abnormally.

❖ **Application**

- This system can be used by the multiple peoples to get the counselling sessions online.

❖ **Reference**

✓ https://shsu-ir.tdl.org/shsu-ir/bitstream/handle/20.500.11875/1164/0781.pdf?sequence=1
✓ https://ieeexplore.ieee.org/document/6208293/
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