Sri Lanka Institute of Information Technology

Project Topic Assessment – 2019

Research Problem:

Now a days most of the search engines are voice-based, it grows as a trend with time. So it is much more valuable if we can implement on Facebook, Instagram, tweeter because most people are involved in it. This feature mostly benefits the user because of the following important reasons.

Accessibility – for the users with visual impairments and disability

Safety – handsfree interface is a huge convenience. (Performing actions with both hands) also more users at once with proper voice recognition.

Even without these reasons it will be a lot comfortable for the users if they can use voice commands.

Research Area:

Machine learning

Data science

artificial intelligence (AI) – according to different voices it identifies and adapt according to

Voice command Dictionary

Voice reorganization

Object capture

Solution proposed:

We implement stand-alone application for social media that when we give our credential its logs our account then open new tab that's run through the application

Challenges

– Hard to translate speech into clear sentences (Accuracy and user responsiveness can be different with different users)

-Use short useful keyword sentences built in for zoom in scroll down like reactions comment as.

-also use # to find the wanted posts

-Accuracy – signal quality will result in loss of recognition accuracy

Solution- echo cancellation

Technologies to be used:

Web speech API – integrate native speech recognition and speech synthesis in the browser.

(Google Cloud Speech API Python)

HTML5 speech recognition API allows JavaScript to have access to a browser's

Team Members:

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Acceptable:　　YES/NO

Changes proposed:

_____
_____
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Any other Comments:

_____
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Approved by CDAP Group:

Member's Name	Signature

Important:

1. According to the comments given by the panel, do the necessary modifications and get the approval by the **same panel**.
2. If the project topic is rejected, find out a new topic and inform the CDAP Group for a new topic pre-assessment.
3. A form approved by the panel must be attached to the **Project Charter Form**.