Software Engineering – Single page write up

NAVICLEAR
Navigation module for Wikipedia for blinds

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Complication scrutiny:-

There are very scarce ways for the visually impaired individuals to have an appreciable access to the online forums where they can learn, nourish, and pursue their interests effortlessly with ease. It makes strenuous for them to easily access any portal of their wish because a problem of "How will they navigate and get to know where they should click to move to the required portal" always prevails because of their natural disability.

Figured solution:-

The foremost aim of the model "NAVICLEAR" being designed by our team is to facilitate all the procedures involved in accessing a Wikipedia, ranging from accessing Wikipedia, to easily navigating every aspect of it.

Model purpose is to introduce voice recognizer and key command detector which will definitely compensate visual challenges that fall before the individuals. Basically, the visually impaired individual will access the Wikipedia and then will be assisted by the voice assistant in the search engine invoked by pressing the space bar so that the individual can look for whatever he/she wants to. After the search results are fetched, the individual can navigate the lists/headings/links/images using voice commands like next heading for moving on to next heading, previous link for moving on to the previous link etc.

Besides, we will also introduce some of the shortcut keys which will also help in navigating easily throughout the search results like up/down arrow key for scrolling up/down, right/left arrow key for shifting pages to next/previous etc. Apart from these, we have also decided to provide a dictionary in the model itself so that individual can also search for any of the word. These will be some of the features that will surely help the individual to effortlessly navigate through Wikipedia and make their experience remarkable.