INFORMATICS INSTITUTE OF TECHNOLOGY

In Collaboration with

UNIVERSITY OF WESTMINSTER

UI Sketcher: Generate sketch user interface designs for mobile applications using voice recognition

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Submitted in partial fulfilment of the requirements for the
BEng (Hons) Software Engineering degree at the
The University of Westminster.

May 2021

Abstract

Perfect user interface design is inarguably the bridge between the user and the application. Hence, it is indeed vital to provide a good user interface and user experience (UX) for the users. The primary step with regard to the design is creating the wireframe/ sketch UI designs based on the requirements. Currently this task is done using numerous tools available for designing UI. This can be a time consuming task and lack of tool support for mobile devices make it worse for the designers. Survey results reveal that if the clients want to get involved in the design process, more often than not it will be done through communication or by document walkthrough. Consequently this leads to several drawbacks such as miscommunication and misunderstanding. However there is no proper solution to design a quick sketch UI without having the required knowledge about the tools with less physical interaction.

The answer (UI Sketcher) which is proposed can be used to overcome the above-stated difficulties. If the clients want to take part in the designing process they can easily convey their ideas to Business Analysts or Project Management team members regardless of the knowledge about the tool in a minimum amount of time. In Addition to that relevant stake holders can use this system to create sketch UI design for basic prototyping. Firstly, the system will get user input through voice about the required UI element and the system will extract information and identify the UI element. Afterwards the system will generate the sketch UI design accordingly. In the end the users will be able to download their design.

Keywords : UI / UX design, Wireframe, Sketch UI, Natural Language Processing, Speech Recognition, Prototyping Tools