Title: VOICEAID: A VOICE BASED MULTI-PLATFORM FIRST AID APPLICATION USING JACCARD

SIMILARITY INDEX ALGORITHM

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EXECUTIVE SUMMARY

The purpose of this study was to create a First Aid application that would help users to be able to provide immediate assistance in times of emergency situations.

As the researchers proceeded on developing the application, they utilized the React Native framework in creating a multi-platform app, React Native Voice API for Voice Recognition, Firebase Database, React Native Geolocation and Maps, React Native Immediate Phone Call and the implementation of Jaccard Similarity Index Algorithm.

The researchers used the Agile Scrum Methodology for tracking down the development progress.

The researchers tested the application on both Android and iOS devices, they also tested the app based on the location, distance, and how fast the app responded. The researchers also had a test case that was used for the sprint review.

As per the recommendation for the users, the researchers would suggest using Android mobile devices in installing the app since Android devices were more flexible but for Apple devices, the researchers would suggest using devices released after iPhone6 and the iOS version must be higher than the version 8.2. They would also suggest placing the app near to the user's mouth for a better voice command detection especially on crowded places.

Keywords: Voice Based, Speech Recognition, React Native, Jaccard Similarity Index Algorithm, Voice Aid