TALA: Voice Interaction Enabled 3-Dimensional Map Program of DLSU-D for Smartphones

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Abstract

TALA: Voice Interaction Enabled 3-Dimensional Map Program of DLSU-D for Smartphones, the system which was developed, aims to deliver an improved human – computer interaction to smartphone users of DLSU-D. TALA is designed to locate an establishment within the campus as specified by the user through voice or keypad input. TALA, then, determines the path to arrive in the pre-determined establishment and guides the user with a voice response.

TALA is composed of five distinct sections: (1) Home Page, which is served as the lobby of the mobile application. This contains the buttons which direct the user to the features of the application. (2) Map Page for Guided and Manual Navigation contains the main function of the application. This can be accessed upon filling out the required field and pressing “Proceed” button in the Search Page. (3) Search Page is displayed after giving the Launch command in the Home page via voice or keypad input. This page is assigned to get the user’s current location and destination either manually or guided input. (4) Help Page contains all the necessary information about using the map. This is populated with two tabs containing instructions to navigate using keypad and voice input. (5) Credit Page contains the data about the application and its developers and a brief description on how to navigate through the application.

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