Title: Rent Finder: Android Mapping and Navigational Portal for Home Rentals around Metro Davao

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ABSTRACT

Rent Finder is an Android application that allows homeowners to publish or advertise their home rentals and for students and professionals to view home rentals with all the details provided by the homeowners. It is designed to assist students and professionals in searching for home rentals around the city. This way, students and professionals can find the cheapest home rentals around the city using their smartphones. This research employs the concepts of HTTP method in transferring data from smartphones to the web server by the use of internet connection; Google Map API Version 2, in searching for the specific location; Nearest Neighbor Search (NNS), an algorithm to optimize the searching mechanism of home rental in nearby school; and Google Maps for navigation from your current location to your destination. This study is conducted with the assistance of the City Planning and Development Office and Business Bureau where they provide list of registered home rentals in the city. The application was developed using Scrum agile methodology and has undergone rigorous testing activities such as platform testing, browser testing, and functionality testing as well as user acceptance testing. It was discovered that the tools employed in the study related to Google Maps, GPS, and NNS work well together to create this mobile application. The app is available on the researchers' website and soon on Google Play.