Online Geographical Information System Designed for Amalfi, The Islands, Crown Asia

An Undergraduate Research Proposal

Presented to the

Faculty of Computer Studies Department

De La Salle University-Dasmariñas

Dasmariñas City, Cavite

In Partial Fulfillment

of the Requirements for the Degree

Bachelor Science in Computer Science

Medina, Michelle Angela V.

Nepomuceno, Sidney Gayle P.

Tugas, Janne Jennieva P.

April 2013



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ABSTRACT

The Geographical Information System for Amalfi, The Islands, Crown Asia, was made and developed to help not only the homeowners but also the visitors, delivery boys, etc. to locate easily the users' target place. GIS can be helpful because the users can actually locate the location needed using the landmarks, routing, and driving directions provided by the proponents. The system also showed the shortest path of the directions needed by the users to avoid conflicts.

The proponents started to research on how to make a Geographical Information System using C# as their programming language and ASP.Net as the server-side web application framework designed for web development.

In gathering the data such as getting the GIS, related literatures, measurements of the road dimensions, and coordinates of the locations, the proponents used various methods to gather the correct values and information.

The proponents used a measuring wheel to identify an accurate measurement of the roads. The proponents used AutoCAD, a computer-aided design (CAD) program used for 2-D and 3-D design and drafting, to identify the coordinates of each location. The proponents also went to the National Library to gather information about literatures related to the research. The Property Manager of the Amalfi, The Islands, Crown Asia was also interviewed to gather information such as the map of Amalfi, and population of the place.

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For the system itself, the proponents had their own work assignments; one person was assigned to do the algorithmic programming and the handling of local databases while the other one designed the system's gui (graphical user interface) and supplied the data required for the routing in AspMap such as the dbf, shp and rtn files.

Geographical Information System (GIS) include all the possible shortest way in order to avoid the time consuming travel confusable directions of the users in searching a location. The GIS was developed with the used of the Database Management System, Quantum GIS, AutoCAD, and ASP.Net as the main programming language for the development of the system.

The Geographical Information System is intended for everyone who is interested in locating the places in Amalfi, The Islands, Crown Asia. The GIS will be accessible online only. The results from this GIS will help the users in having problem in locating the users' places. The proponents concluded that using the Geographical Information System for Amalfi, The Islands, Crown Asia will help everyone who is interested about the place.

The group highly recommends the implementation of the Geographical Information System in Amalfi, The Islands, Crown Asia.