Abstract

The emphasis of this thesis is to build an intuitive and robust GIS (Geographic Information systems) Tool, which gives an outlook on the "Iberian Exploration". The GIS tool aims at mapping the Portuguese and the Spanish sailors who either left the coastal waters to find new trading route to the east or explore new lands around the globe.

This tool will help the user to select either Portuguese or Spanish sailors of his choice and see the statistics of their discovery, which also includes their route over the oceans and seas.

The tool is developed in JAVA. For the world map, routes and the statistical data, MOJO (Map Objects Java Objects), which was developed by ESRI (Environmental Science Research Institute), has been used. The user interface will be designed so that it is user friendly and interactive, additional information will be displayed using basic HTML, JavaScript, CSS and Java Swings. To keep the user engaged, key aspects are explained using Images and HTML pages. The idea is that pictures would help the user understand what this exploration tool has to offer. The tool is intended primarily for self-study, by K-12 or college students. The twin emphasis is on maps, and multimedia presentation.

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