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First African Arabian Egyptian GIS and GPS software which developed independently of any commercial software package, or code library

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Smart GIS Software is the first African Arabian Egyptian GIS and GPS software© which completely developed independently of any commercial software package or code library and it has been registered in 2005, and it is free for noncommercial use. Geographic Information System (GIS) is a computer program for storing, retrieving, analyzing, and displaying cartographic data. GIS is impacted by various sciences, which are integral to the GIS programming such as geographic, graphic, database, operating research, software engineering, software programming and code enhancement. By applying those above-mentioned sciences and techniques, to the GIS programming activities, we achieved our stable last version of Smart GIS Software. Current features are as follows: 1) Digitize and Analysis (Spatial, Attribute, and Surface) GIS Data. 2) Build, edit and view shape file and its related DBF files. 3) Download Google Earth rectified maps images and rectify raster images. 4) Convert GIS shape file to AutoCAD DXF file format and vice versa. 5) Convert GIS shape file to Google KML file format. 6) Convert GIS shape file and rectified images to html5 Web GIS and Mobile Application by Intel XDK. 7) Surfaces analysis and networking analysis 8) Online GPS Tracking System 9) convert total station files to GIS map layers. 10) Convert UTM to Geographic coordinates system and vice versa. The software development process model is “waterfall model” or software life cycle. The fundamental development activities of the software are divided among several stages: 1) Requirements analysis and definition; 2) Software design; 3) Software implementation and testing; 4) Software integration and; 5) Operation and maintenances. Smart GIS software has been used in several World Bank projects in Yemen and Egypt, and it is recommended by United Nations Spatial Data Infrastructure (Netherlands Coordination Office) website.

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