Conception Object Oriented d and Integration a Geological Data Basis in a Mobile GIS: Geological Electronic Notebook

Noamen Rebai[1], Samir Bouaziz[2], Mohamed Soussi[3], and Mohamed Moncef Turki[1]
[1] Faculté des Sciences de Tunis ; Département de Géologie -2092 El Manar 2, Tunis-Tunisia
[2] Ecole Nationale d'Ingénieurs de Sfax. Route de Soukra 3038 Sfax-Tunisia

The study aims to facilitate the geological survey understanding by developing a GIS tool integrated treatment and graphic representation using object oriented concept. This tools integrates a database called "Satellite Database" that is a database with several objects clustered around a core. The core consists of fundamental data including tectonic paleontology, etc surrounded by modules of treatment or calculation and modules of graphic representation. The main interest of this concept is to offer users the possibility to modify, to insert and to suppress the database objects.

The developed tool offers the ability to superimpose different layers of information having the same referential system of coordinates and integrate them into Geographic Information System ready for Notebook use, which would help field workers in their surveys and analyses.

Keywords: Database, Notebook, GIS, Field Work, Object Oriented