CSE 6331 Project Report Phase-1

Team Details :

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Project Initialization :

After going through the project description provided and examining the map of UTA provided we begin by making note of all the building's, Parking Lots, Roads and Paths present in the section "K" of the map.

Then we choose polygons to represent buildings, Parking Lots, Open spaces surrounding the buildings. Similarly, we choose lines to represent the Roads, Pavements and for a complete outline of our part of the map. We use points to represent Entrances of the buildings.
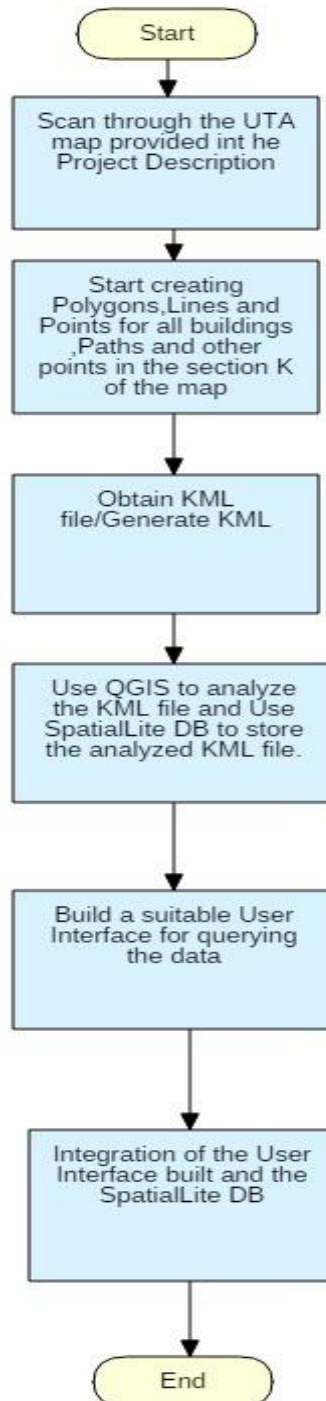
Data and Methods to obtain it:

The format of the data that we'll be using is KML. It is obtained using "My Maps" from Google Maps or Google Earth. Google Maps or Google Earth provide inbuilt methods to create polygons, lines and points which on combining give us a KML file.
The KML file obtained represents the section "K" of the given UTA map.

System/Programming Language used:

We plan to use QGIS for viewing and analyzing the KML file and we use Spatial Lite database to store the KML obtained. We intend to use Python as our choice to programming language to support integration with Spatial Lite DB and the UI.

Flowchart:

Other Information:

Buildings in our part of the map:

Kalpana Chawla Hall

College of Business

College of Nursing and Health

Maverick Parking Garage

Trimble Hall

Hammond Hall

Other Areas in the maps:

Kalpana Chawla Hall Parking

Faculty Parking

Roads in our part of the map:

West 4th Street
South Oak Street
South Pecan street
South West Street
Nedderman Drive
West 3rd street