Main Report 1

From: Priyankar Kumar Addressed To: Mrs. Srishti

Input: Given the code of Aakash, Saumya and Rachana

Output:

- 1. Make a GUI and link Aakash and Saumya's work
- 2. Given the final shape files from the above process, generate a cross sectional view to visualize the plans of the various floors (dependent upon Ananth's work too)
- 3. Use Google Maps API and overlay the output of the above, linking it to actual co-ordinate system (latitude and longitude)
- 4. Have an orientation system with the compass (like in Google Maps)

Skills Required:

- For the GUI: PyQt and qgis
- Google Maps: python and the docs
- Visualization: need to figure it out
- Learn to work with ogr

Work done so far (for week ending 22nd June)

• Built a simple GUI using PyQt that allows user to select a dxf files and visualizes the output shapefile of Aakash's work.

Work to be done

- Move beyond a simple GUI and build GUI as per Srishti ma'am's specification. Add button for selecting image file as well.
- Link Aakash's and Saumya's code in the above process and get final shapefiles
- Convert Shapefiles to Image files
- Find a way to get the image files one top of another and be able to visualize it as a cross sectional plan front view.
- Overlay and link the above output to actual coordinates using Google Maps API.
- Get the orientation system to be able to view the cross section from different directions