

Main Report #2

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Idea for the GUI

The interface involves a Google Map of the location. When the user clicks on the building, he is allowed to input the number of floors and other details. Finally, he is allowed to enter in the DXF files.

Technology

PyQt, Google Maps API, HTML-CSS_JS

- WebView in PyQt is made use of for displaying the map.
- The Web View comes with a bridge to Python which is made use of, for showing the various UI elements on clicking the map.

Ideas

- Could make use of JS for further visualization using ThreeJS

Current issues

- Figuring out an algorithm for SHP cleaning
- Finding a DXF viewer which integrates well with PyQt4
- Adding options for Proxy settings so that the map interface works on the university's connection
- Customizing code so that it works well on other OS s.