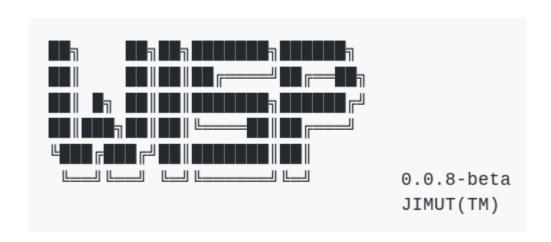
Wisp: A Preference Based Location Finder Application



Under Guidance Of

Prof Shalabh Agarwal

By

JIMUT BAHAN PAL 508



Purpose of this Project

- Real time visualisation of a place according to preferences.
- Eliminates the overhead of researching.
- Well maintained Foursquare API.



Purpose of this Project

- CLI & GUI.
- Open sourced.



Main Features

- Easy to use.
- Available for free.
- Three themes (-t {1,2,3}).
- Debug mode supression (-q).

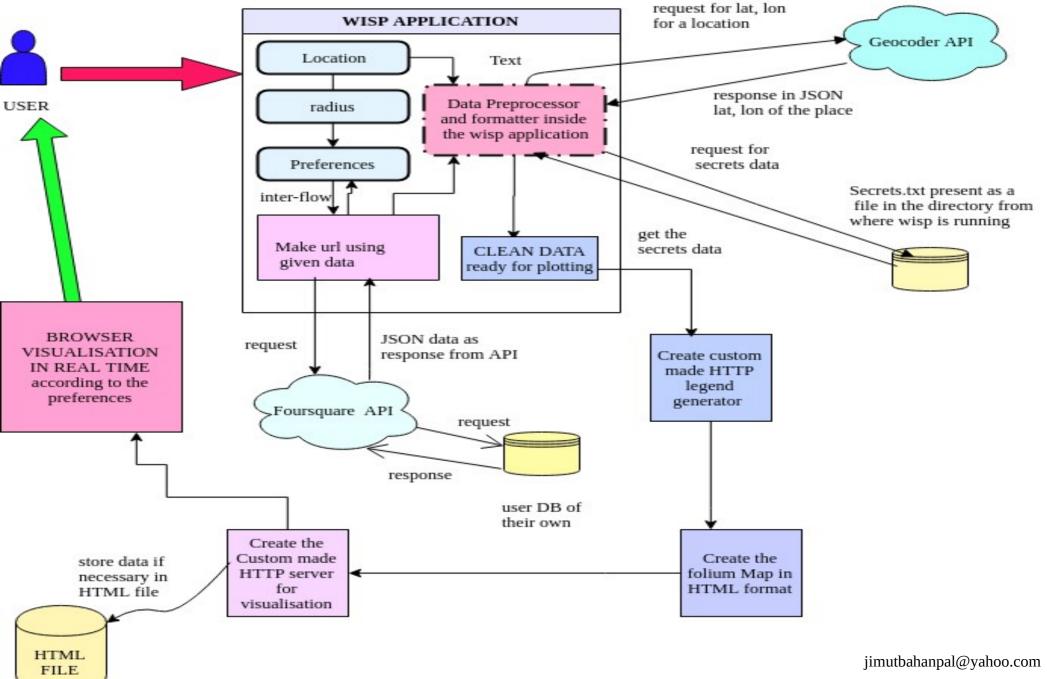


Main Features

- Saving the map.
- Total of 5 maps for visualization.
- "secrets.txt" file.
- "pip install wisp".
- GPL V3.



Flow of Control





Components of the Project

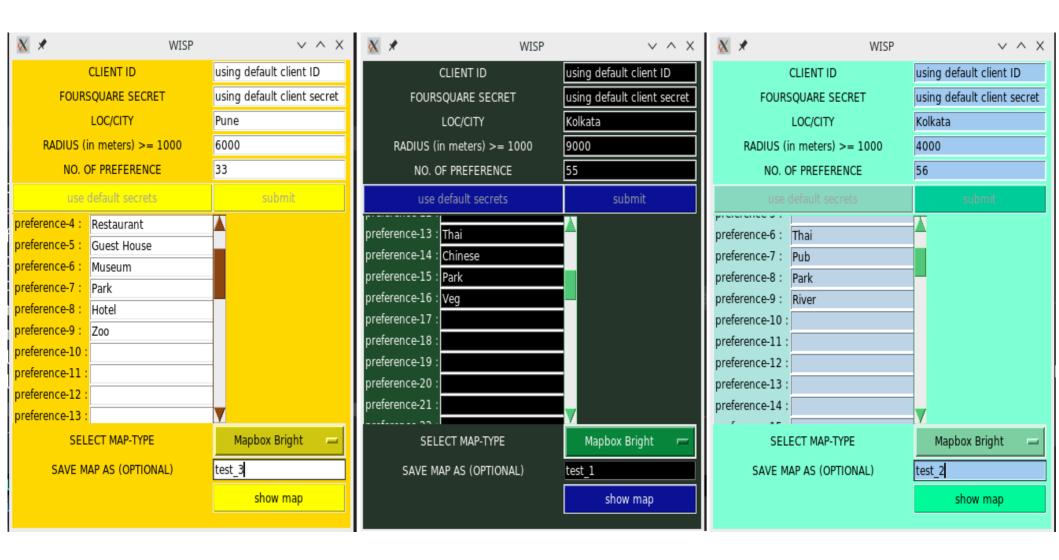
- CLI.
- GUI.
- Foursquare API for the data.
- HTML map and legend generation.
- Visualisation.



CLI – Command Line Interface



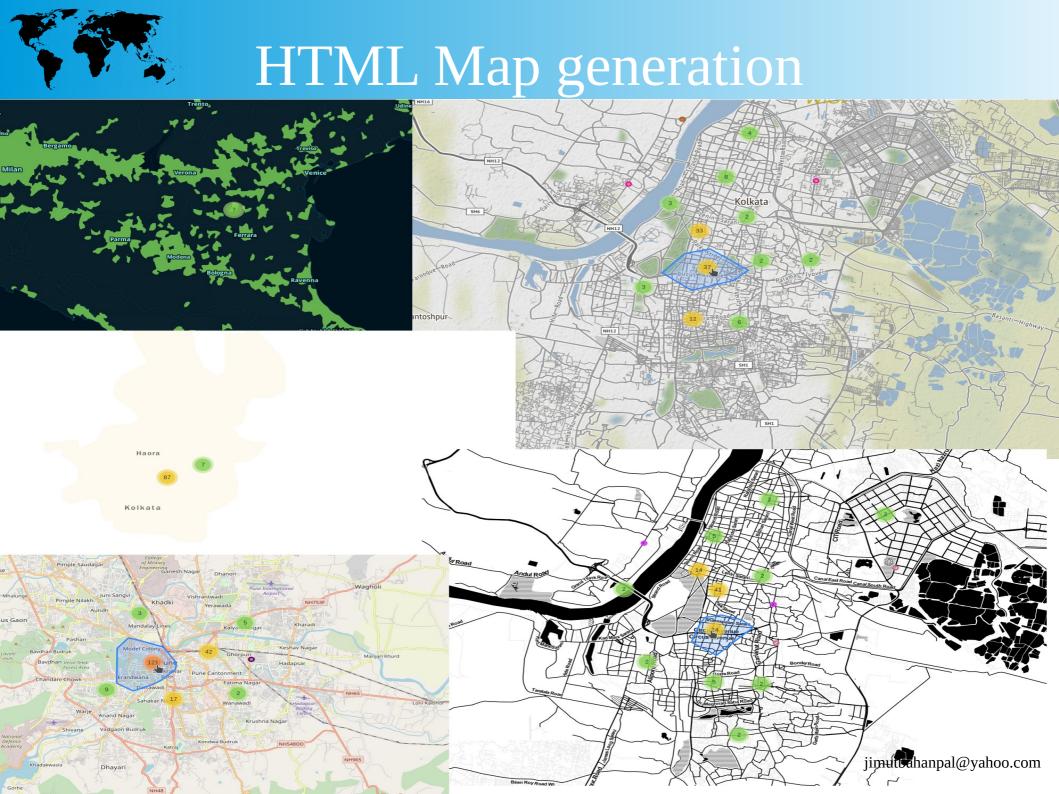
GUI – Graphical User Interface





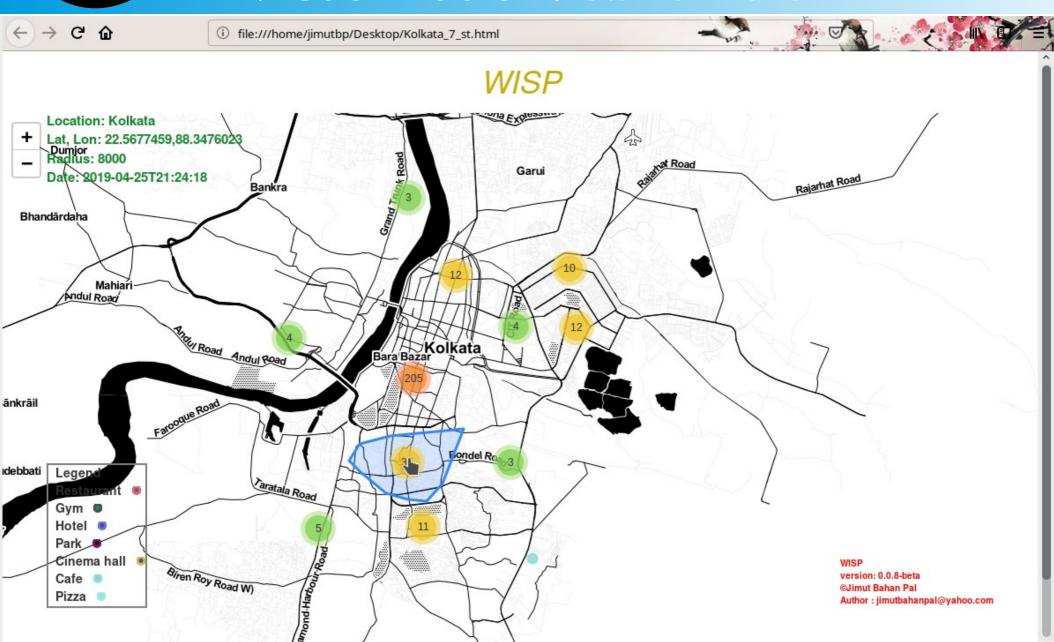
Foursquare API

- Community rich API.
- Free of cost.
- Easy to use.
- Lots of data.
- 24*7 available.
- Necessary data.



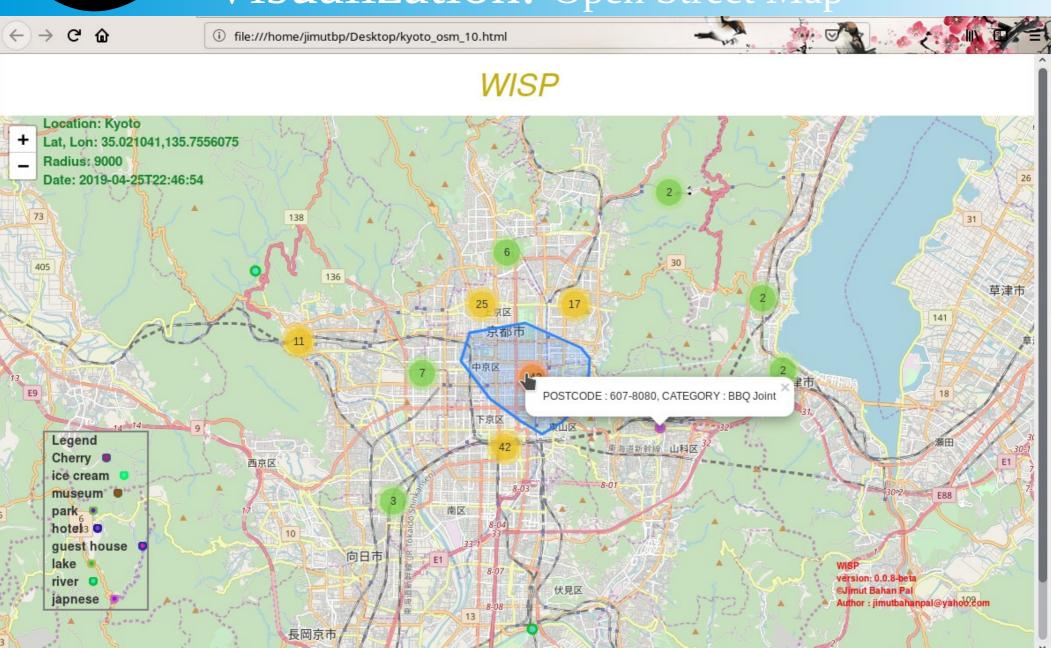


Visualization: Stamen Toner



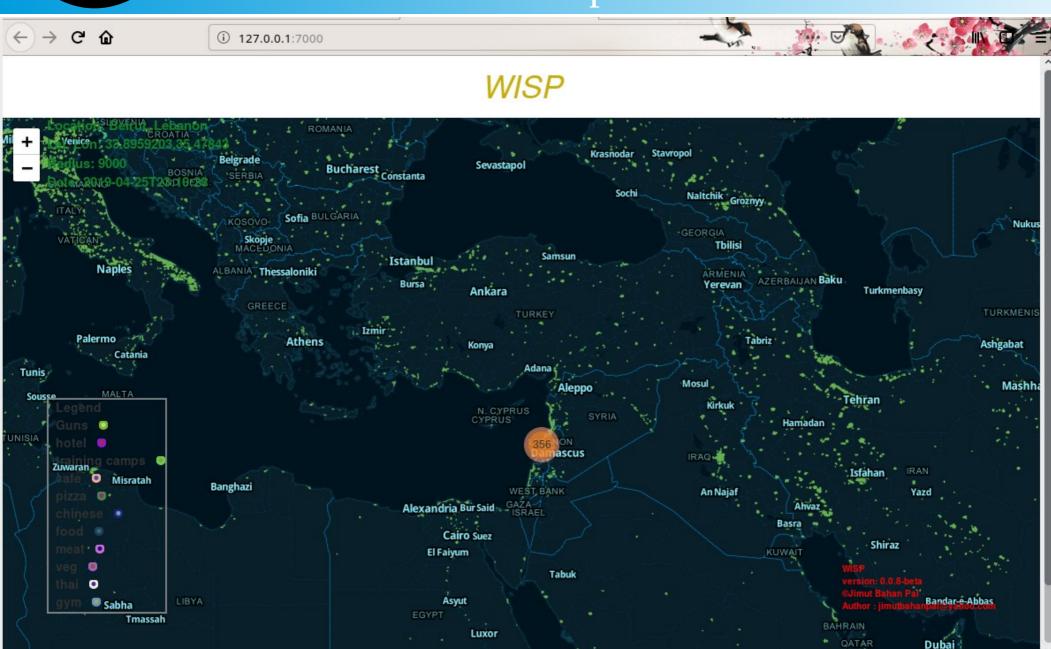


Visualization: Open Street Map



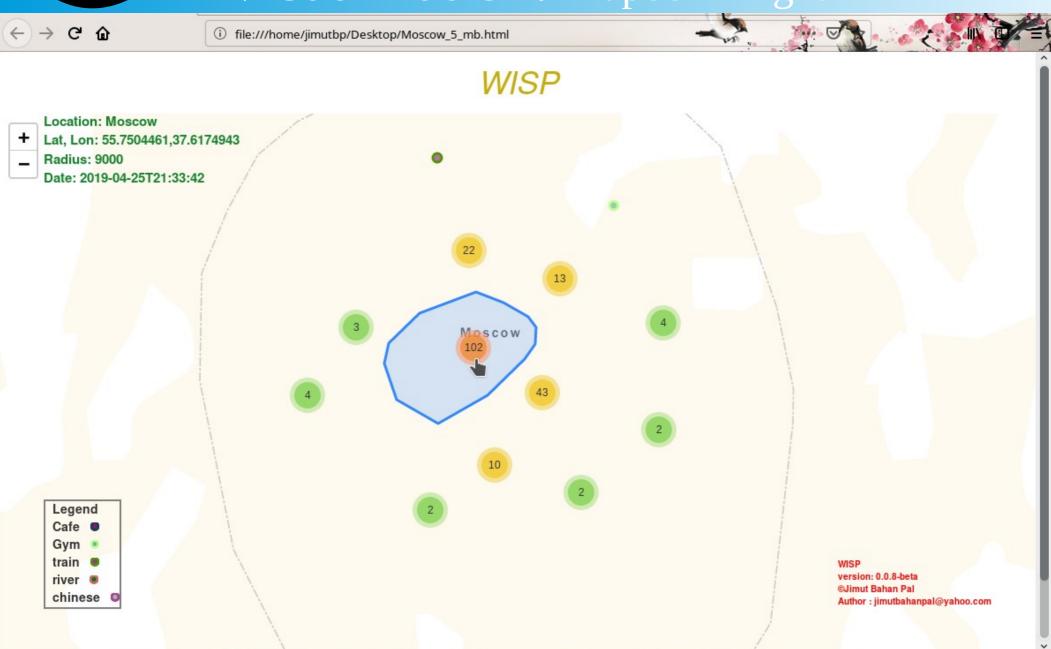


Visualization: Mapbox Control Room



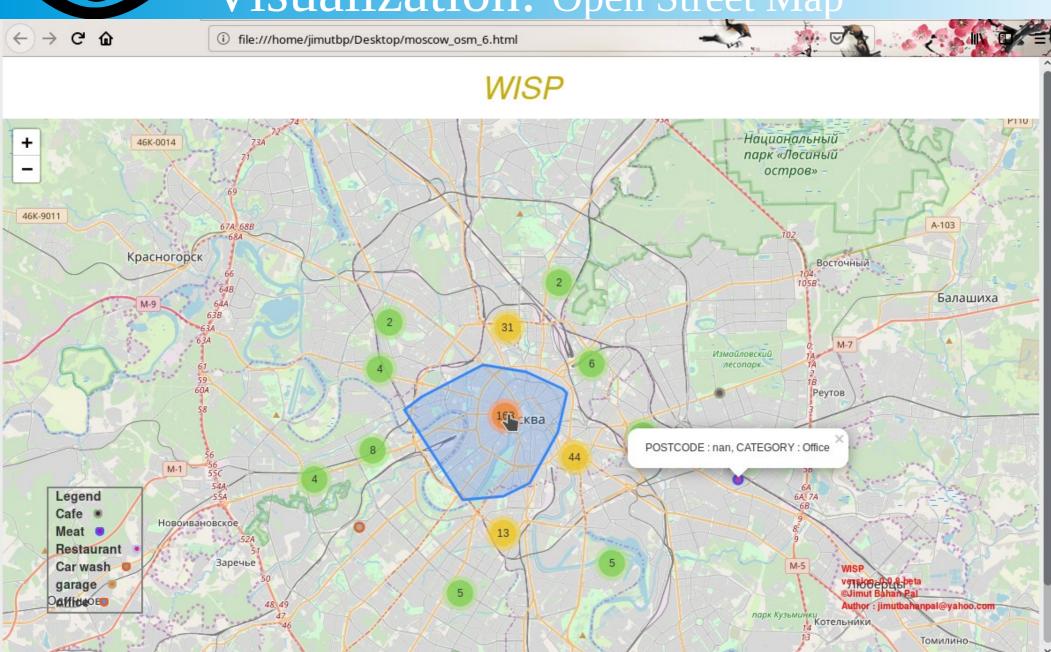


Visualization: Mapbox Bright





Visualization: Open Street Map



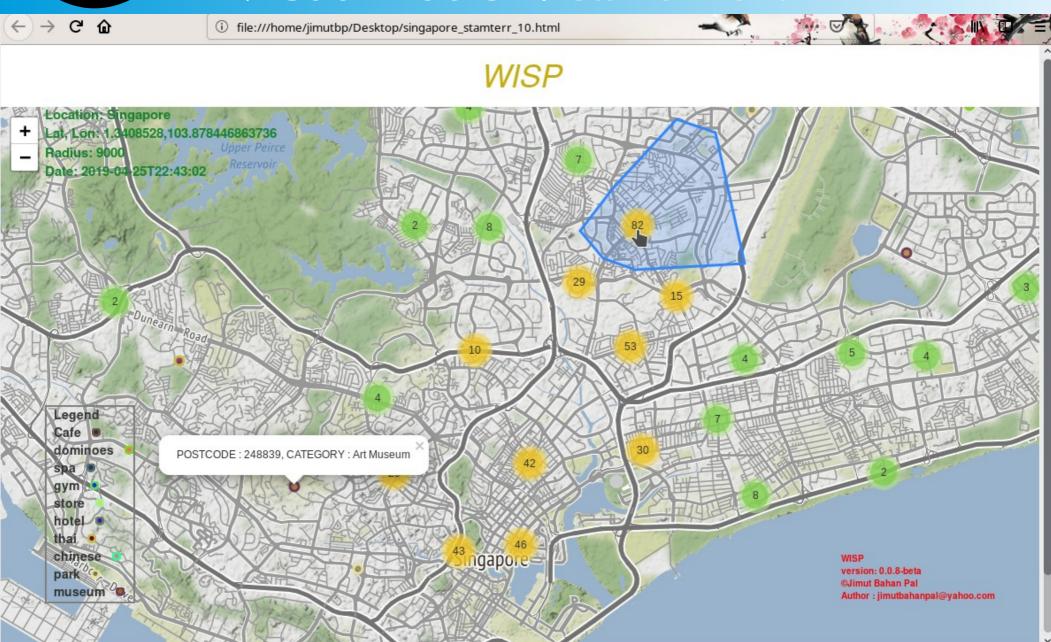


Visualization: Stamen Toner



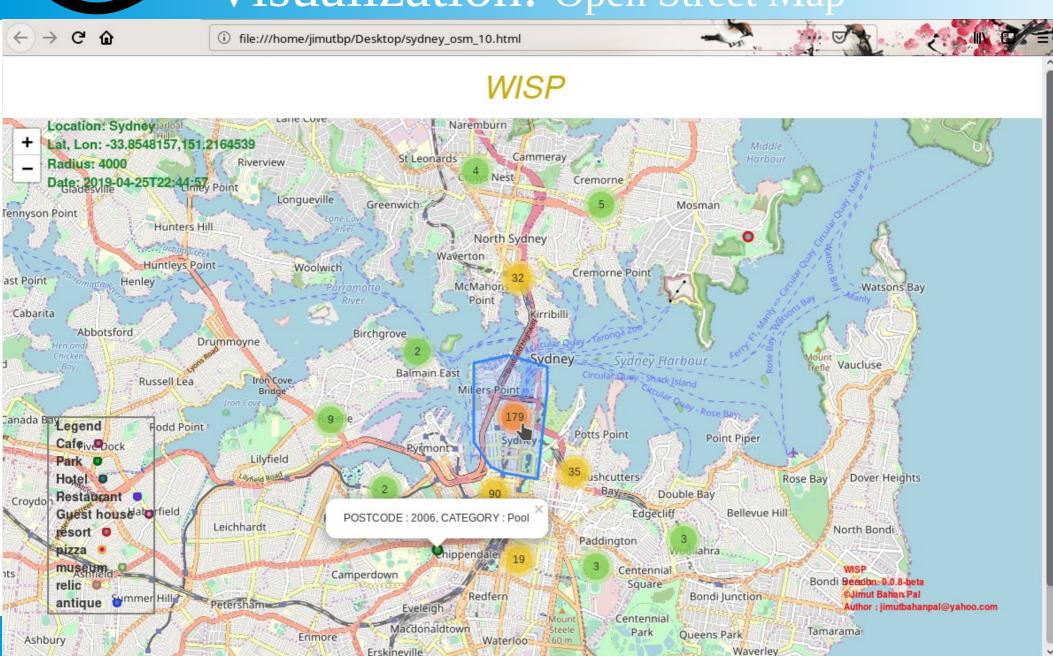


Visualization: Stamen Terrain





Visualization: Open Street Map





Testing

- Modular Testing.
- Integration Testing.
- Test cases on some maps.



Demonstration

The working of the software is demonstrated here



Future Scope

- Open sourcing for it's development.
- To improve the GUI.
- To use different algoritms for visualization, except Markus Cluster.
- Make a web based application, which can serve multiple users.



Acknowledgements

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THANK YOU

THANK YOU FOR YOUR TIME!