

# Regional Health Monitor

## DESIGN DOCUMENTATION

---

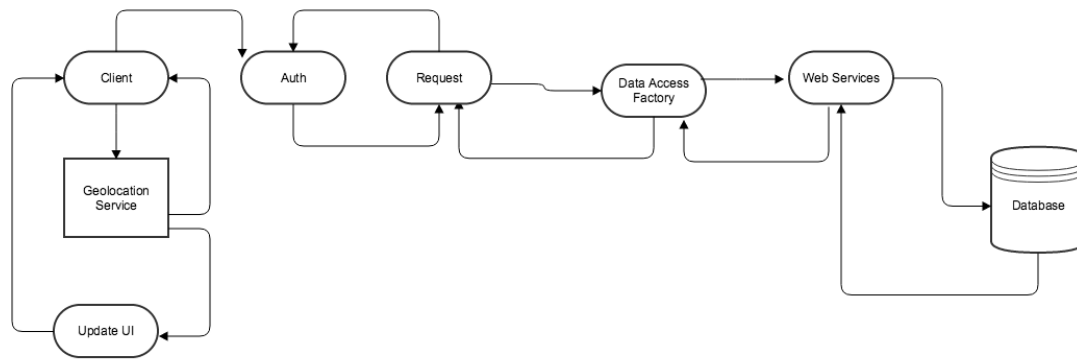
Attached to this document are UML Class Diagrams for the client and server side, as well as Use Case diagrams detailing overall system usage and flow. Use Cases were chosen as opposed to UML Sequence Diagrams to dial down on the complexity of reading the design documents. Sequence Diagrams were determined to be more complex than illuminating in terms of system flow, especially due to some ignorance on Golang and Android programming at this stage.

Note that the UML class diagrams do not feature all potential getters/setters and constructors, for the sake of simplifying the already bloated looking classes.

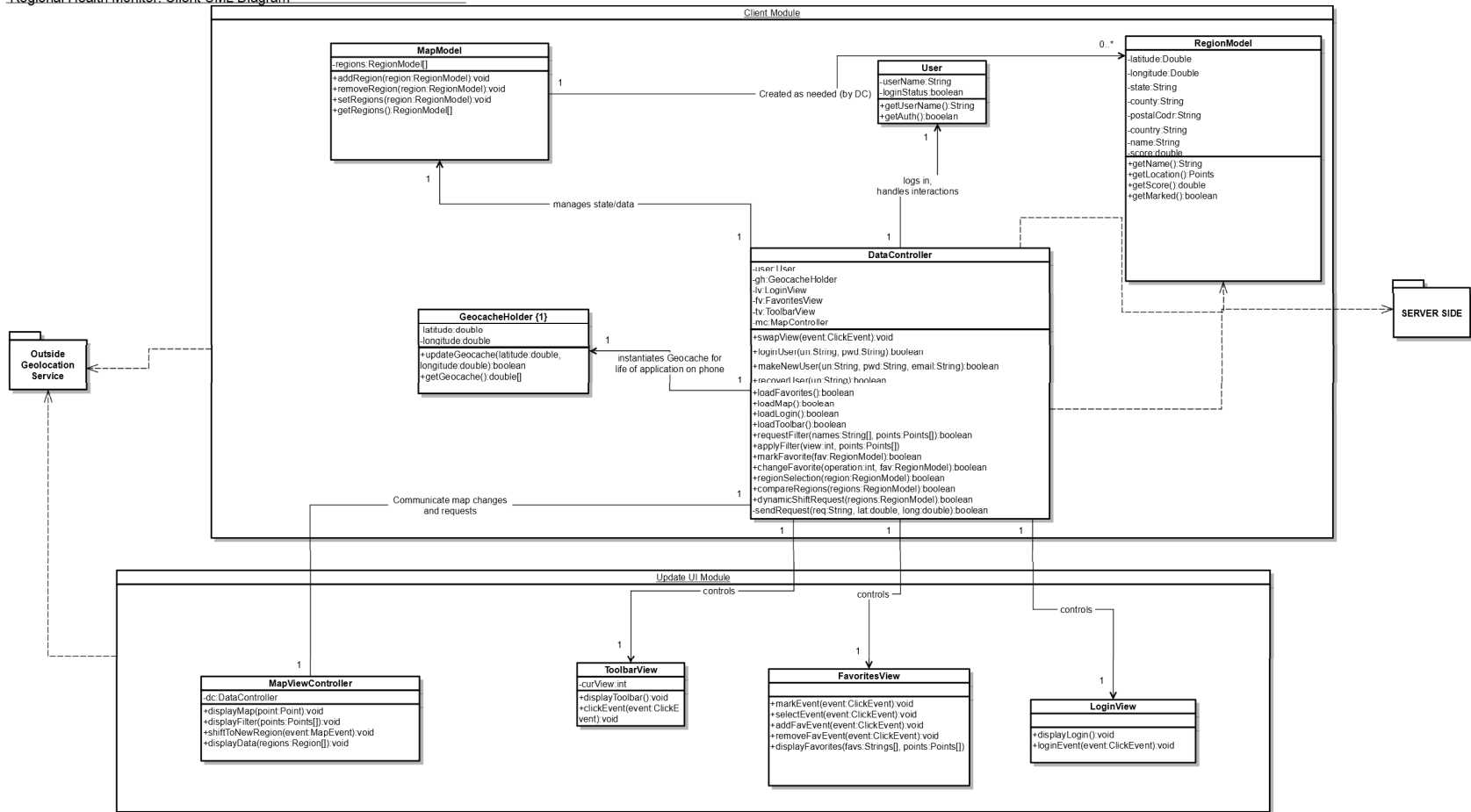
The document is also available on our github here: [https://github.com/mfwlr/acs560\\_course\\_project](https://github.com/mfwlr/acs560_course_project)

It is recommended that you view the documentation on our Confluence cloud here, for a better overall viewing experience: <https://castonzo.atlassian.net/wiki/x/C4AT>

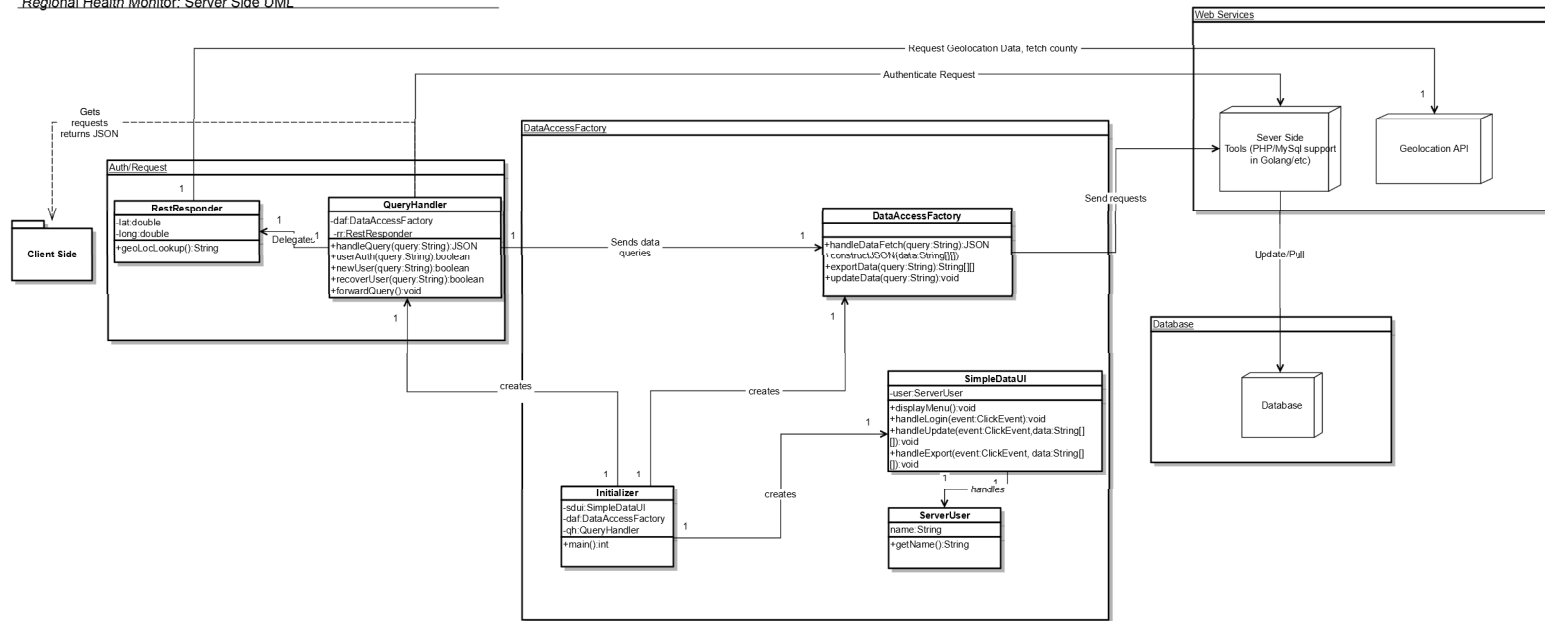
# System Architecture



Regional Health Monitor - Client UML Diagram



Regional Health Monitor: Server Side UML

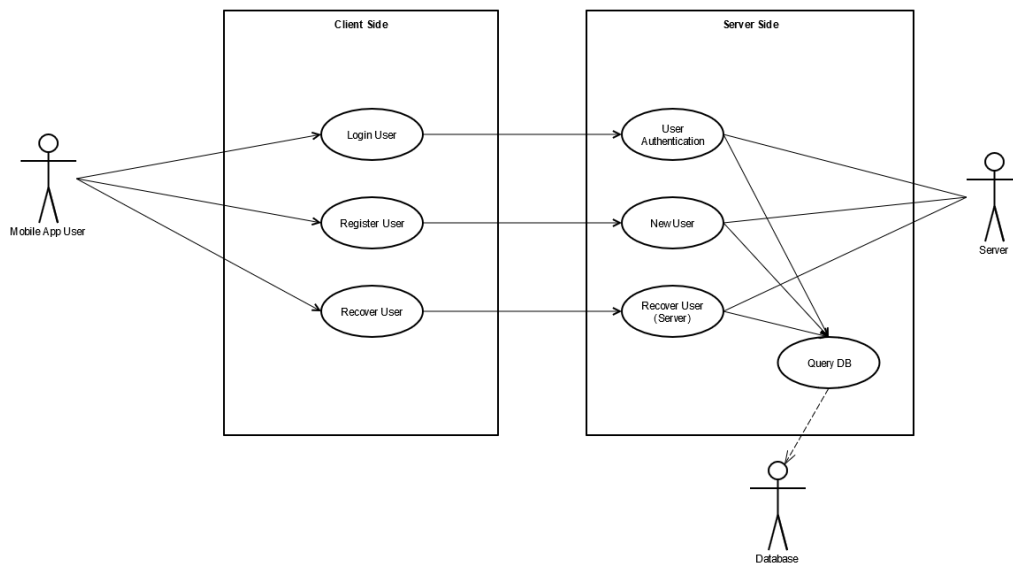


# Regional Health Monitor: Use Case Diagrams

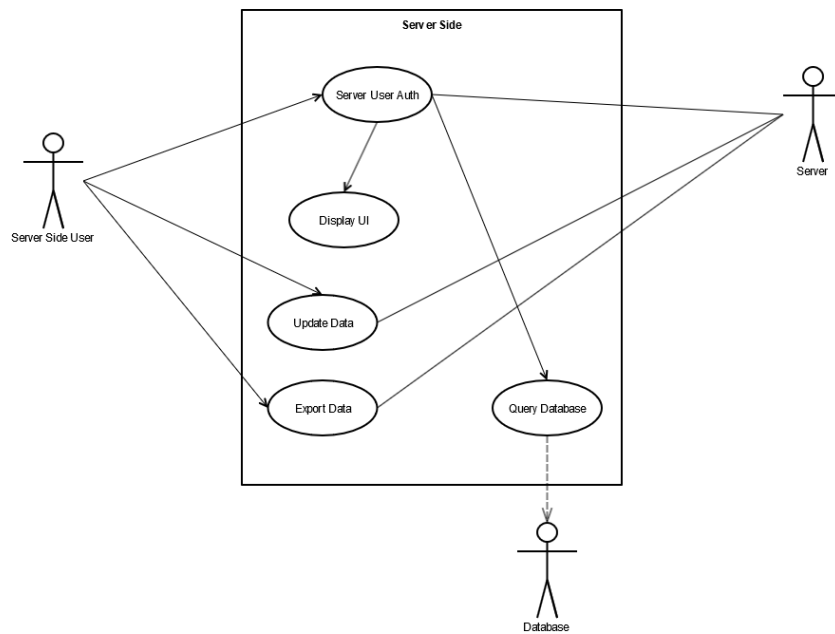
The use cases below are divided into multiple categories; User Login, Server Side, Map Interaction, Favorites List Interaction, and Toolbar Interaction.

This is to enable the system to be seen from multiple views, while keeping the diagrams from becoming too cluttered.

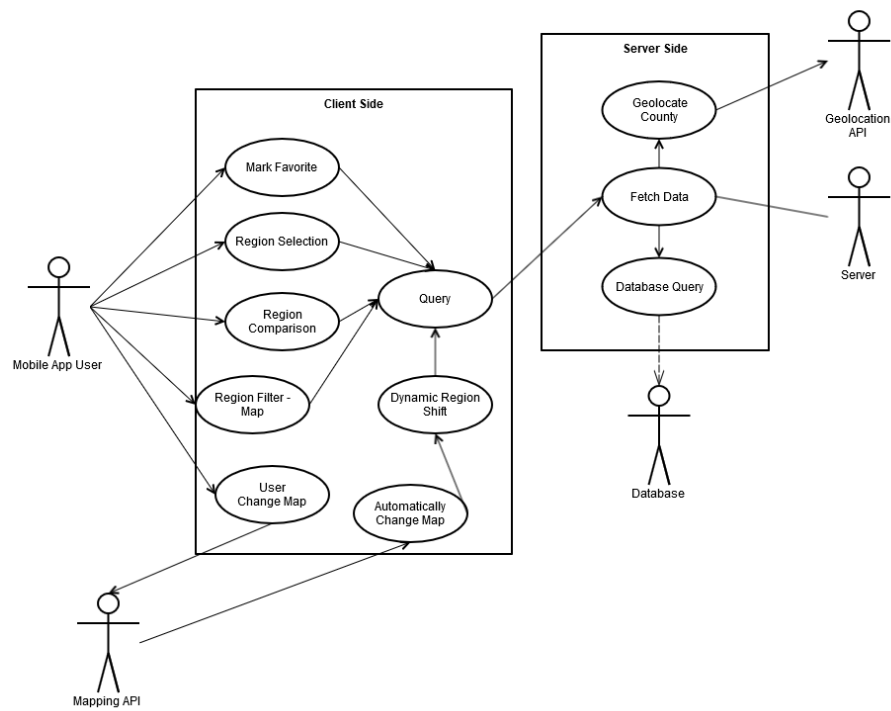
## User Login Cases



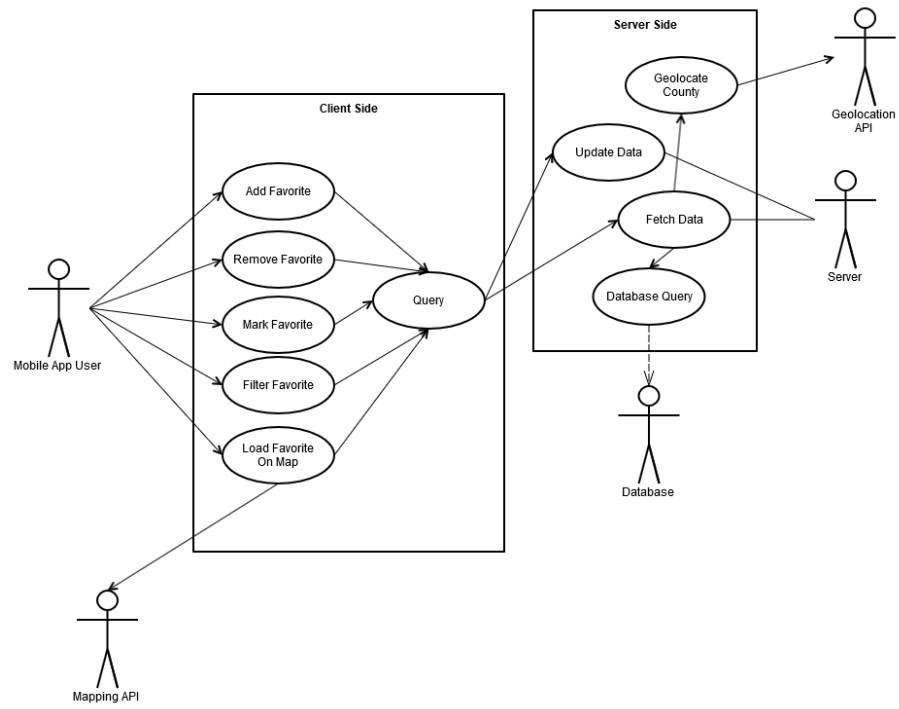
## Server Side Data Update Cases



## Map Interaction Cases



## Favorites List Interaction Cases



## Toolbar Interaction Cases

The server component here is simplified, due to it receiving attention above.

