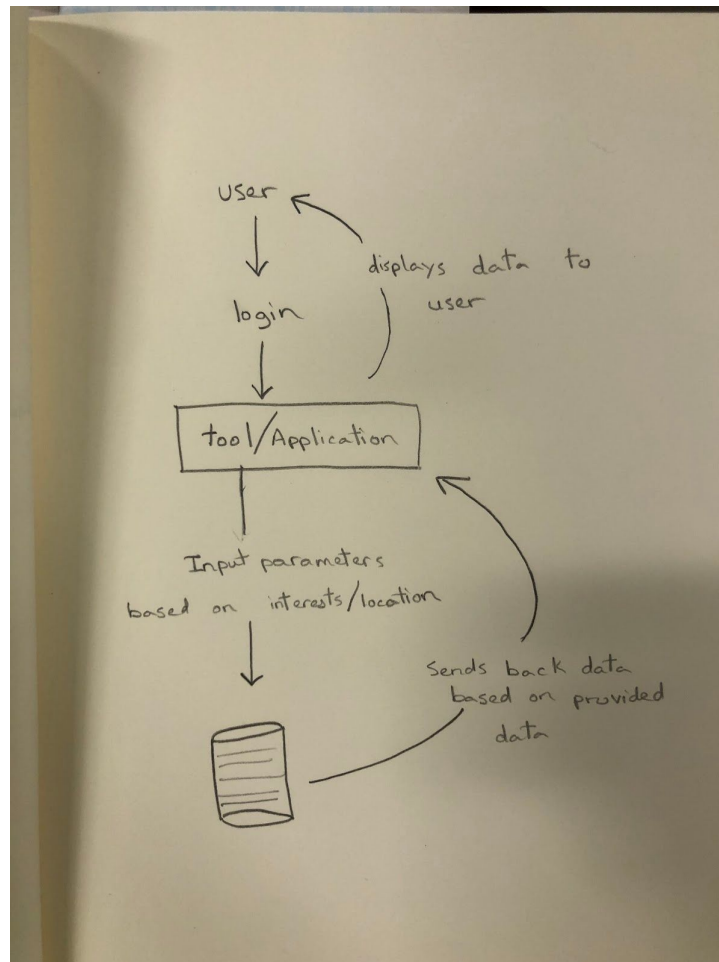# Architecture Document

Constraints

- System must ensure protection of the data from unauthorized access
- The tool operates as a client-server system with the client residing the application and the data being stored in a SQL database
- Heavy loads (i.e. multiple requests being made to the database) must be adequately handled)
-

Use-Case View

- Login
- Input location and interests
- View results of expected views based on the input

Architecturally-Significant use cases

Equation for Predictions:

$$a = \frac{(\Sigma y)(\Sigma x^2) - (\Sigma x)(\Sigma x y)}{n(\Sigma x^2) - (\Sigma x)^2}$$

$$b = \frac{n(\Sigma x y) - (\Sigma x)(\Sigma y)}{n(\Sigma x^2) - (\Sigma x)^2}$$

- Y is the number of views
- X is the number of subscribers

Page Layout