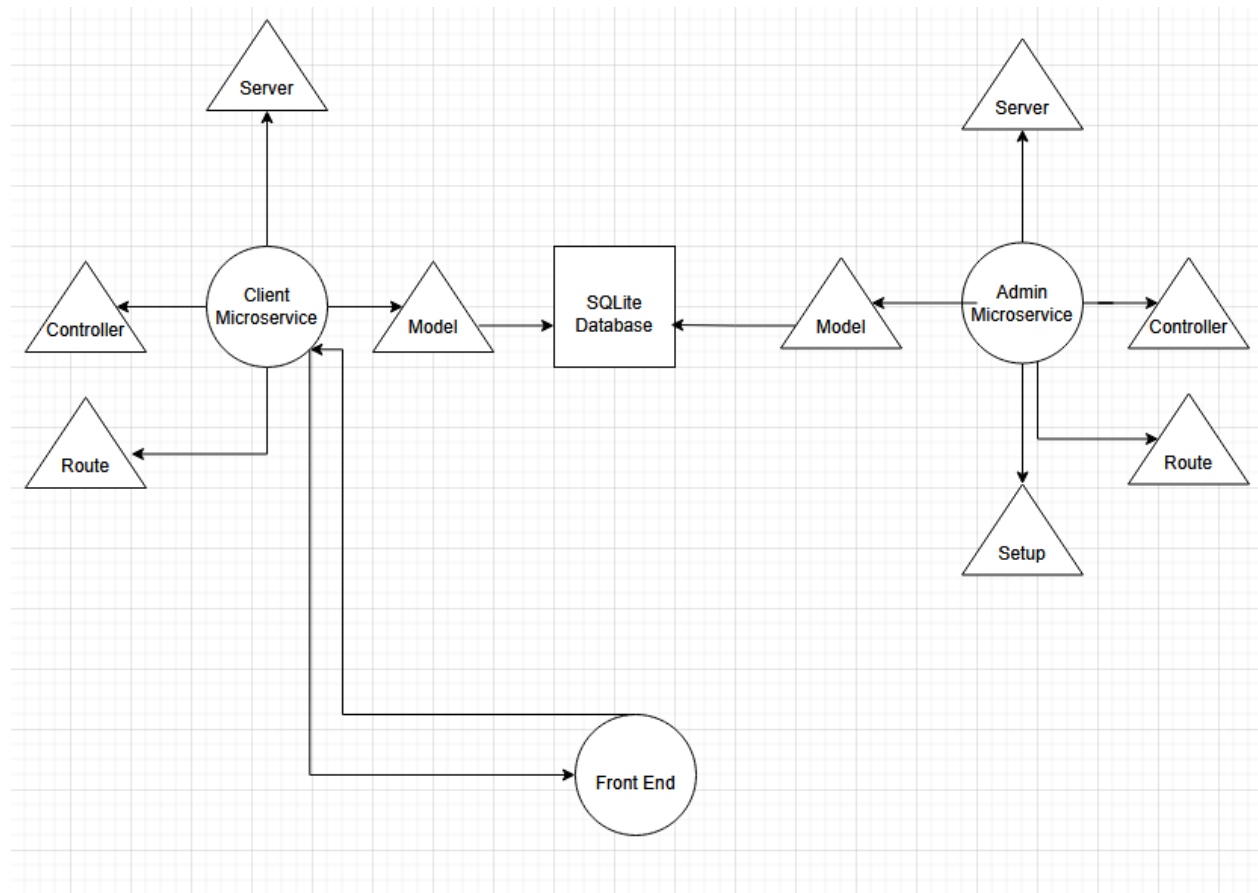Architecture Diagram:

Flowchart: