LUMS Campus Navigator

Software Engineering Course Project

Project Design Specification Document

Group3

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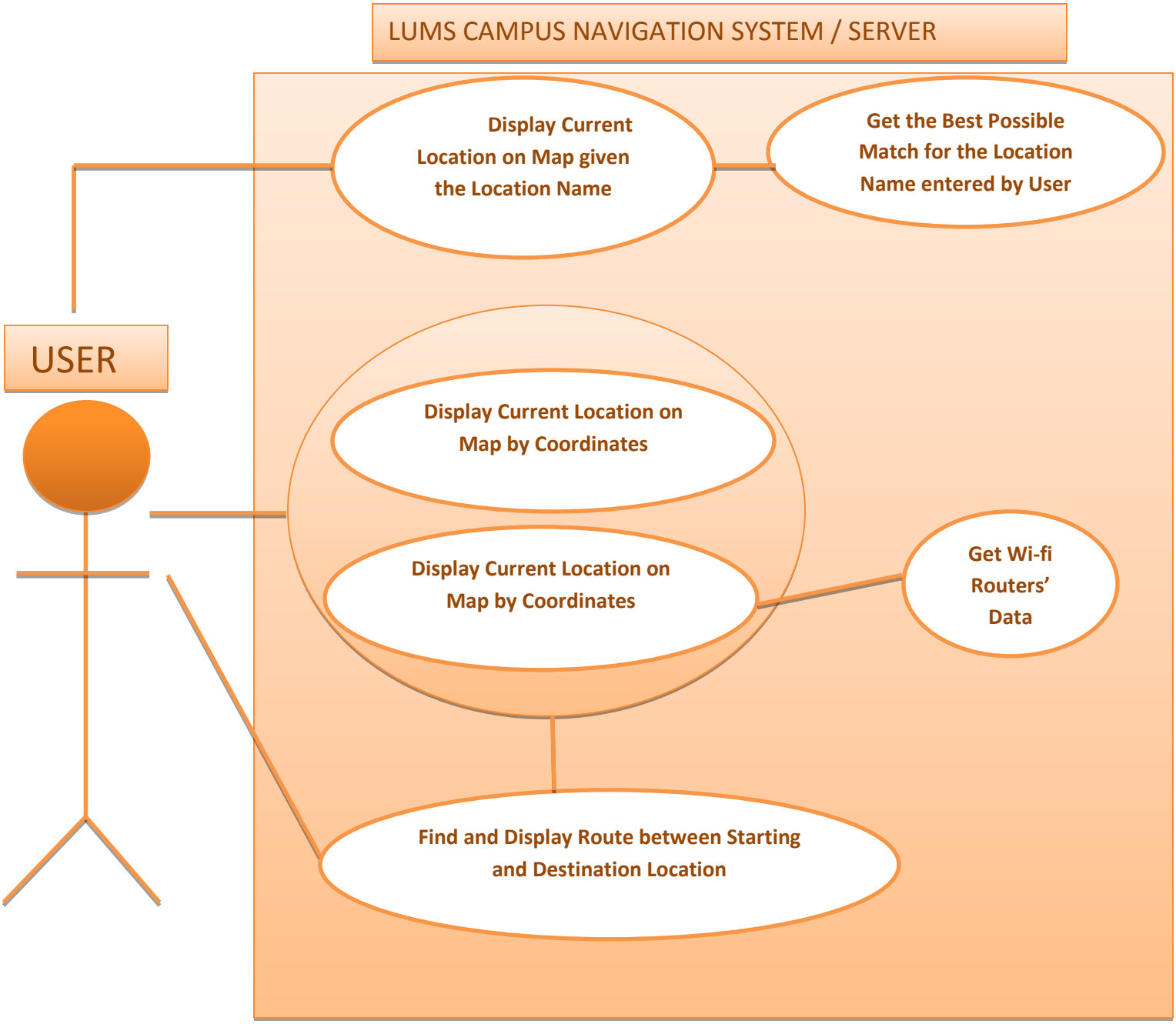
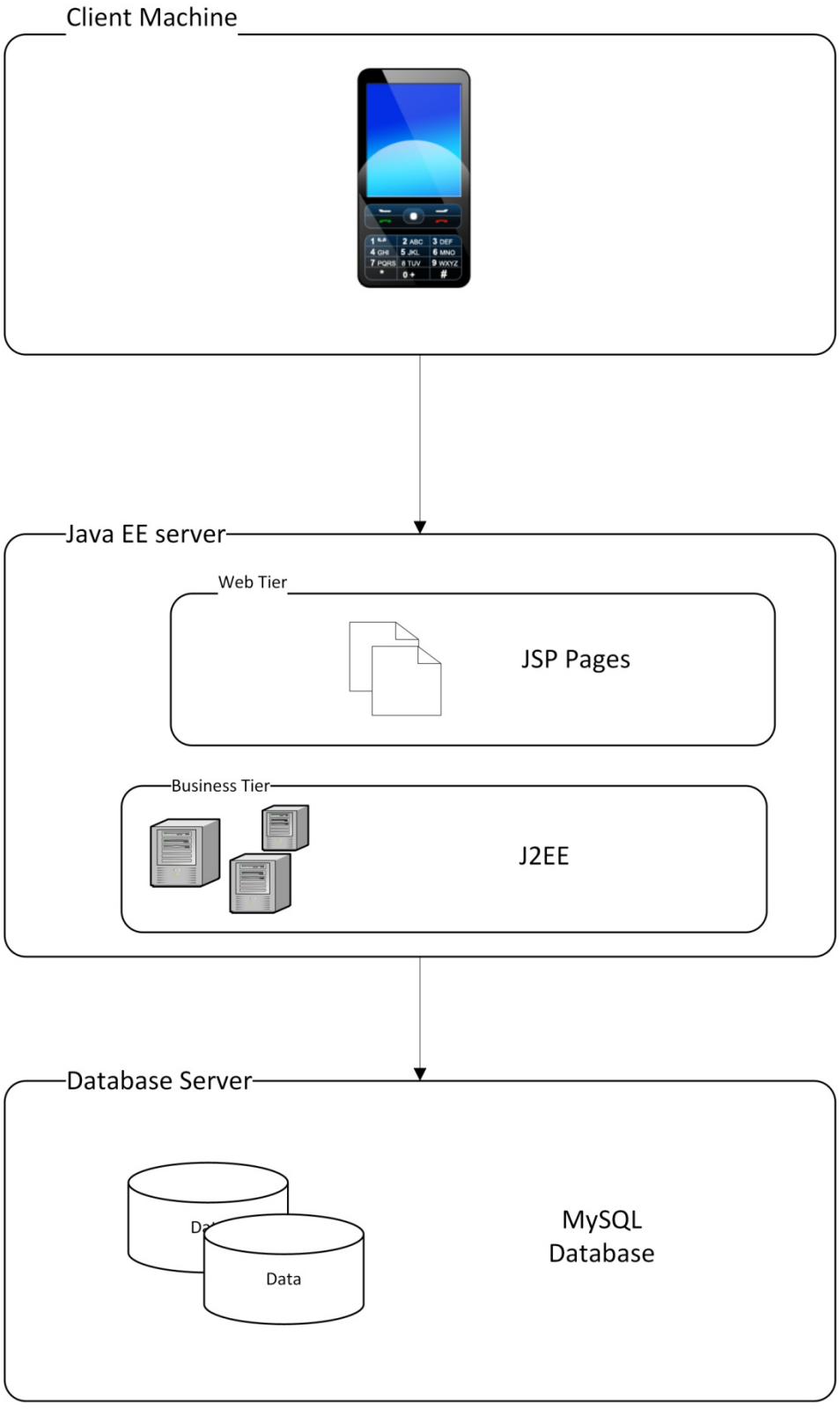
Project Design Specification Document

Use Case Diagram



System Architecture

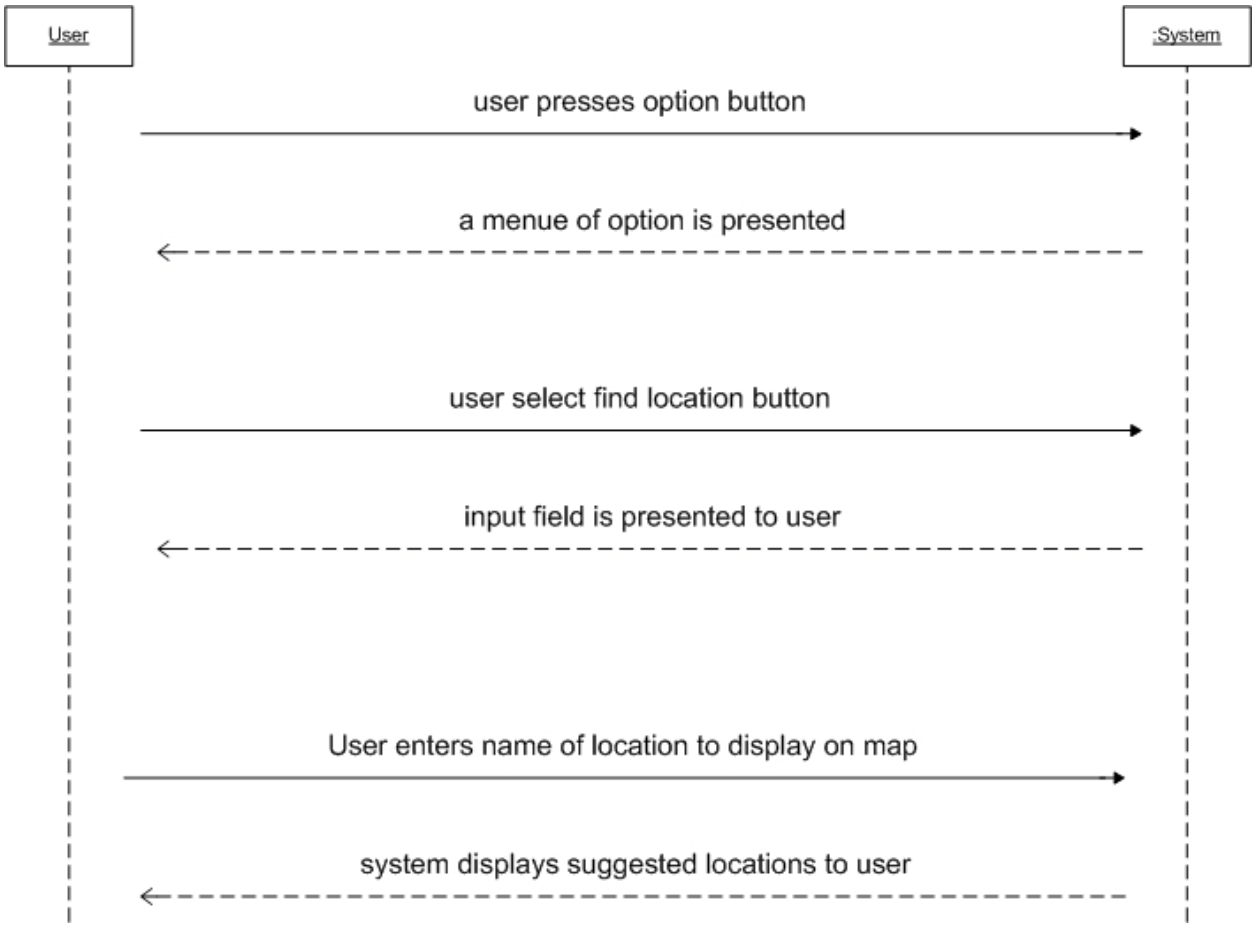
We will be using 3-tier architecture.



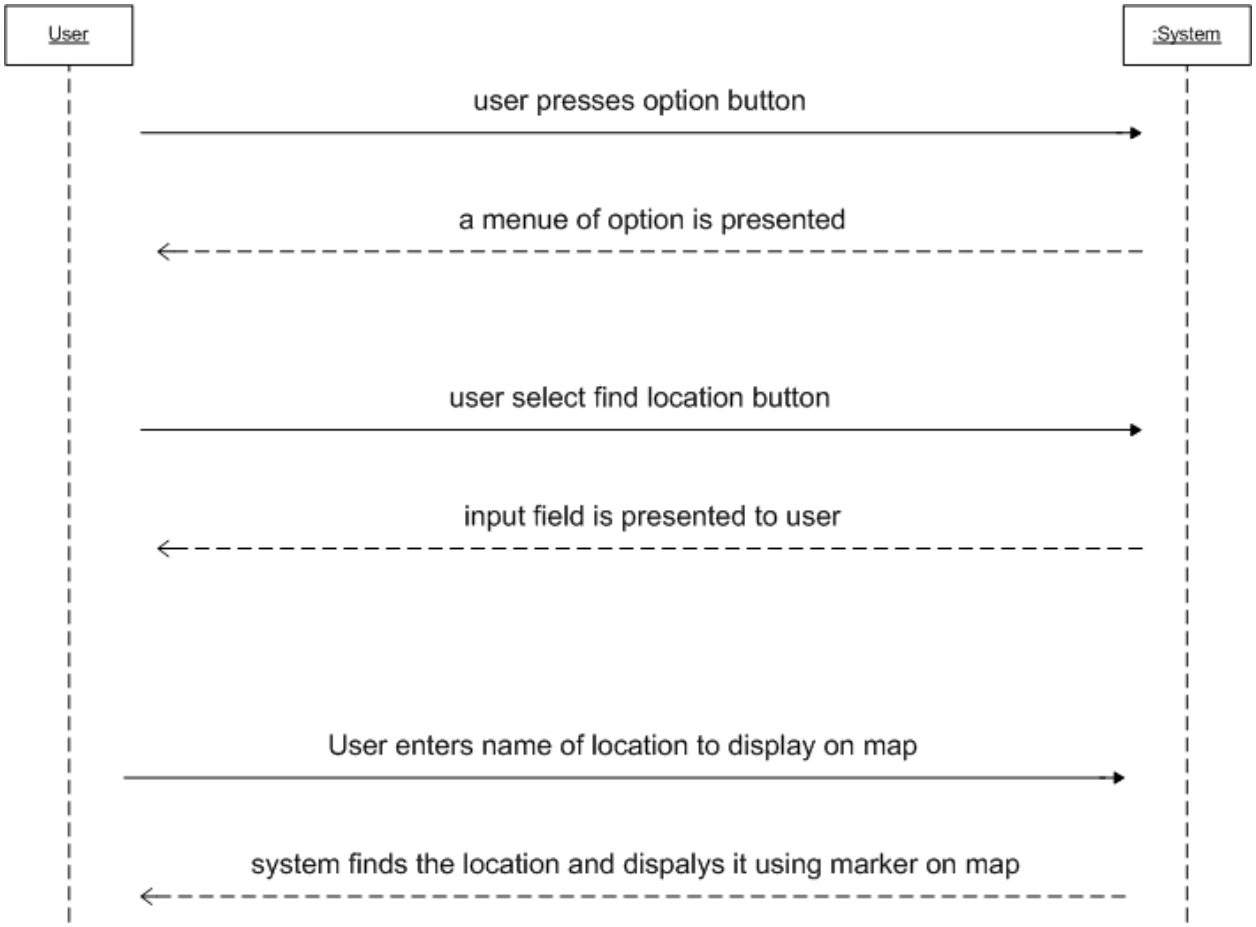
System Sequence Diagrams

SSDs are used to illustrate input and output events related to the LUMS Campus Navigator.

USECASE 1: Get the best possible match for the Location Name entered by user



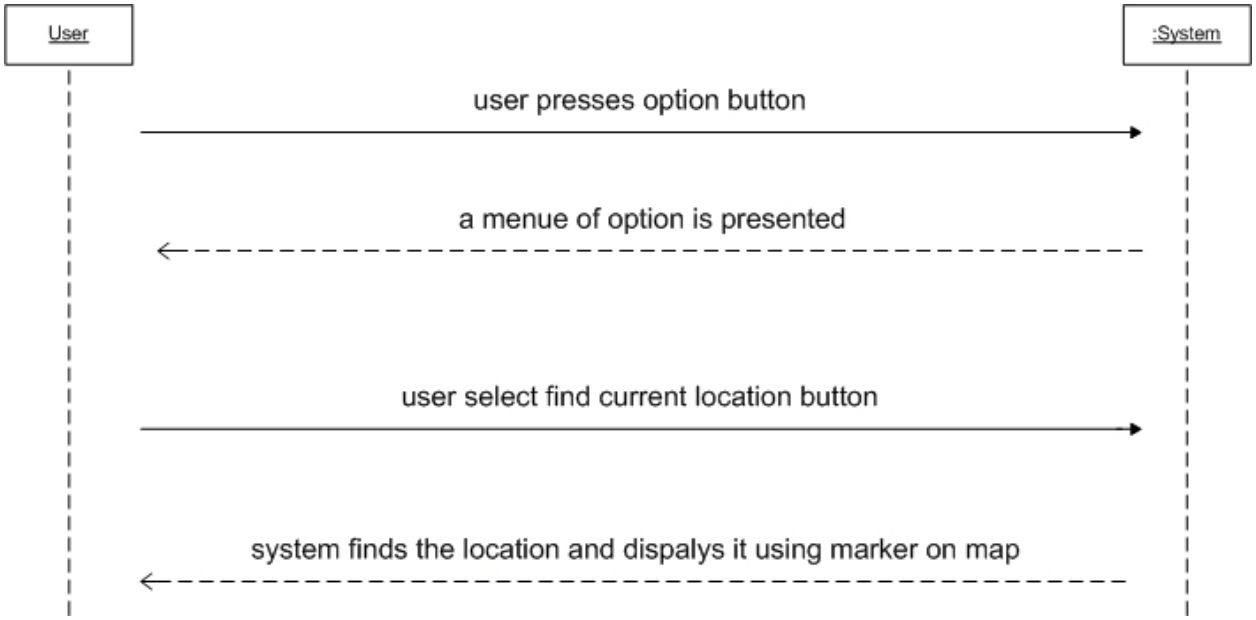
USECASE 2: Display Current Location on Map Given the Location Name



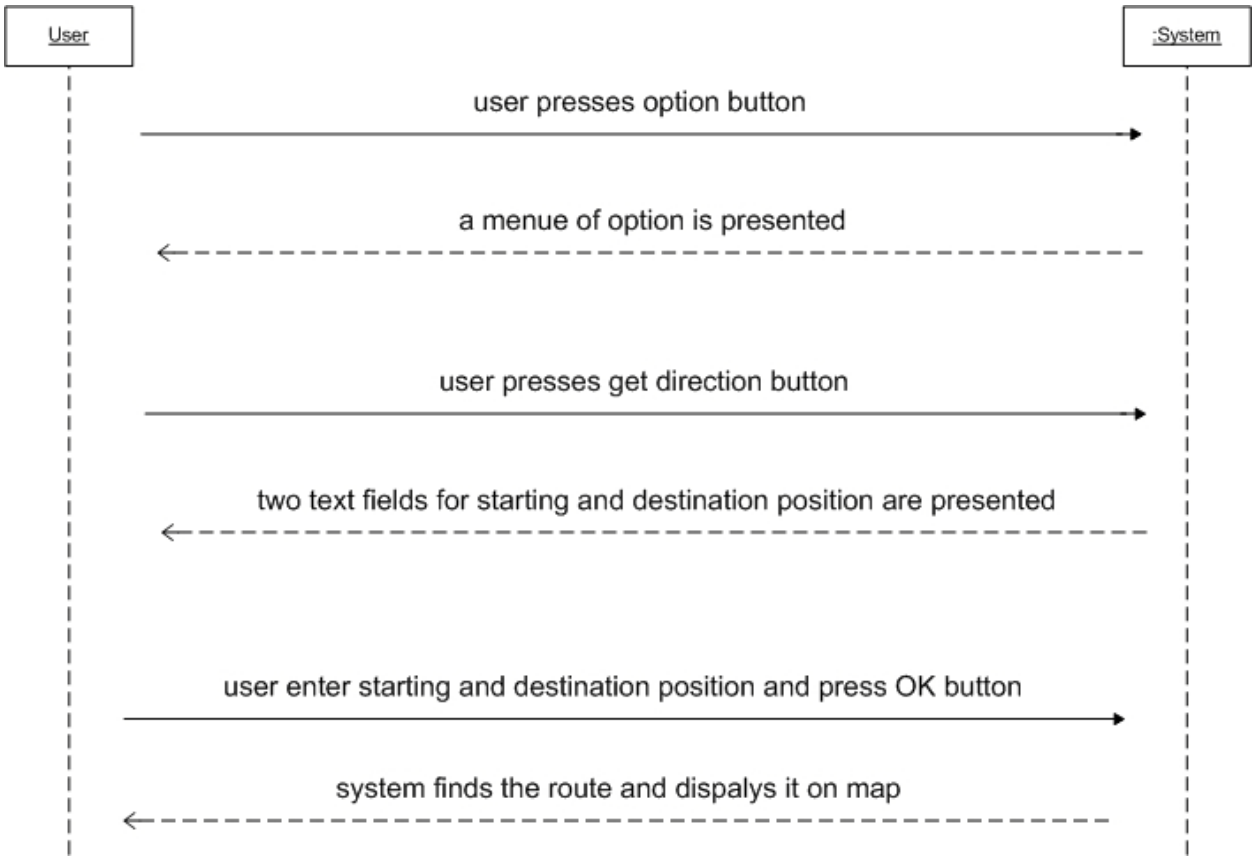
USECASE 3/4:

Display Current Location on Map by Coordinates (CASE 1: OUTDOOR)

Display Current Location on Map by Coordinates (CASE 2: INDOOR)

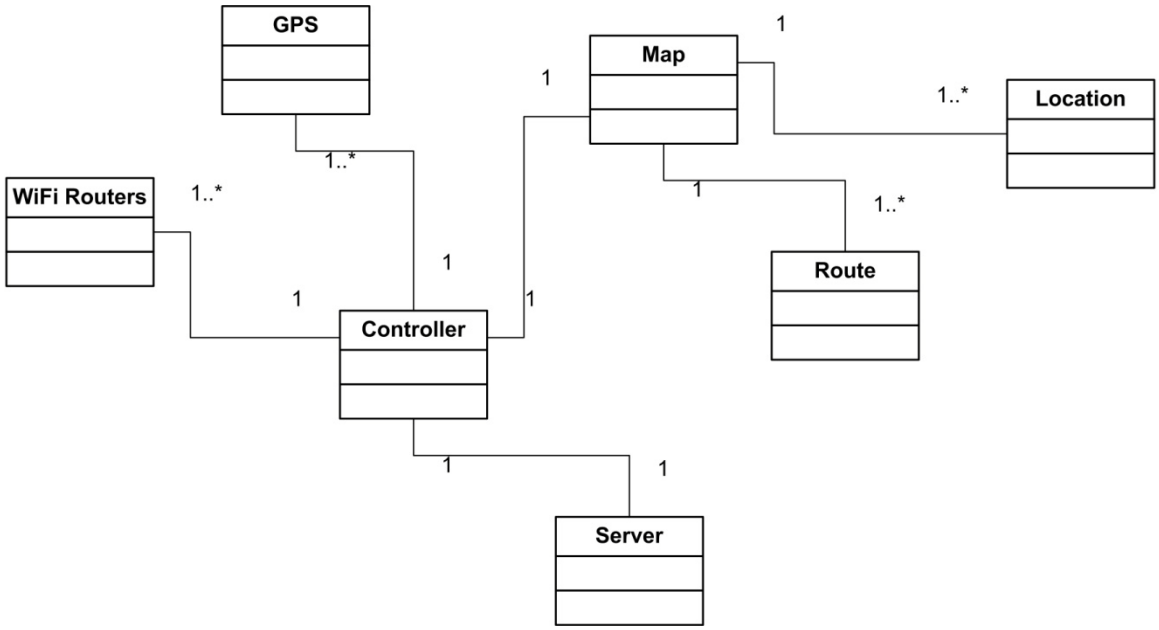


USECASE 5: Find and Display Route between Starting and Destination Location



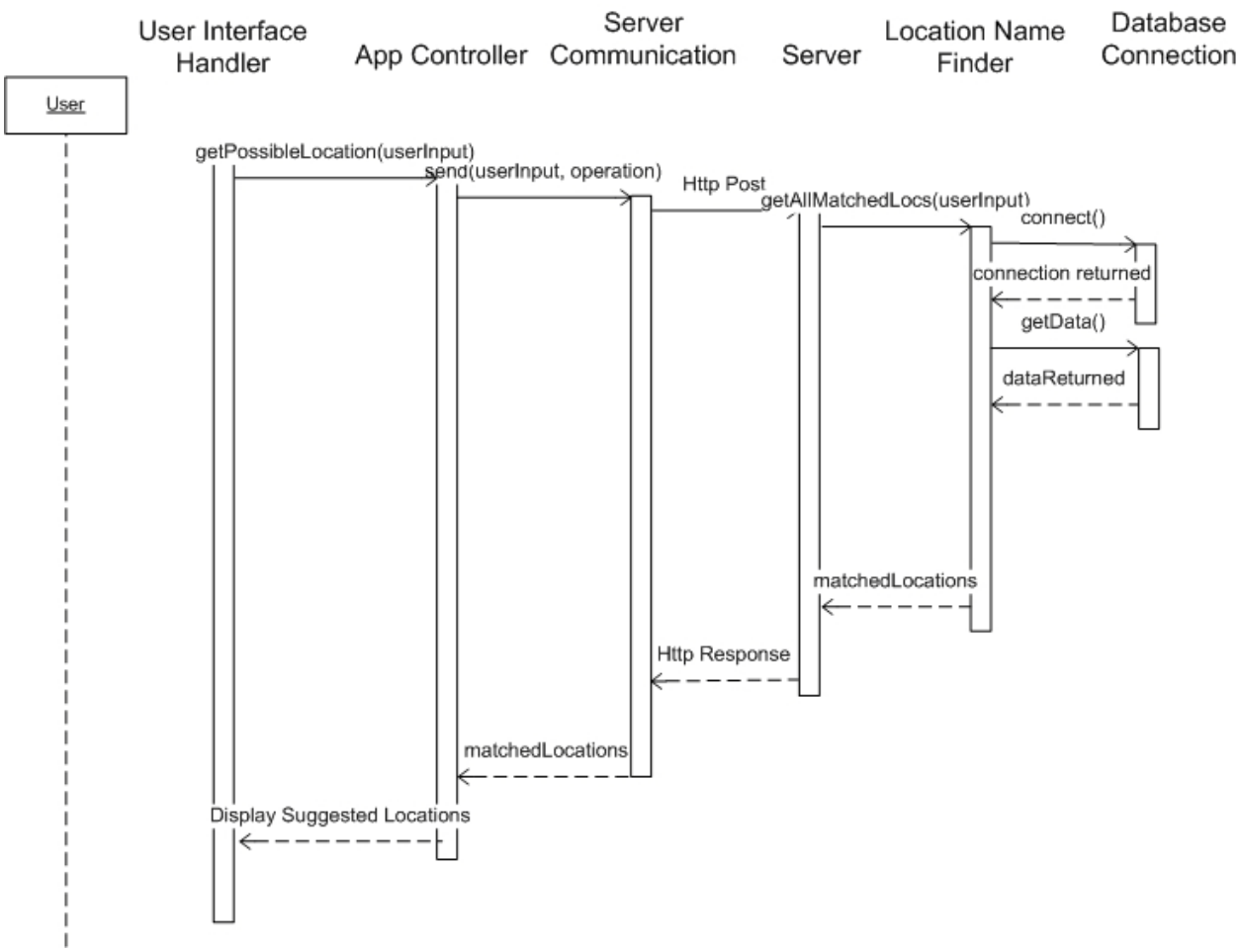
Domain model

It models the real world entities specific to the LUMS Campus Navigator.

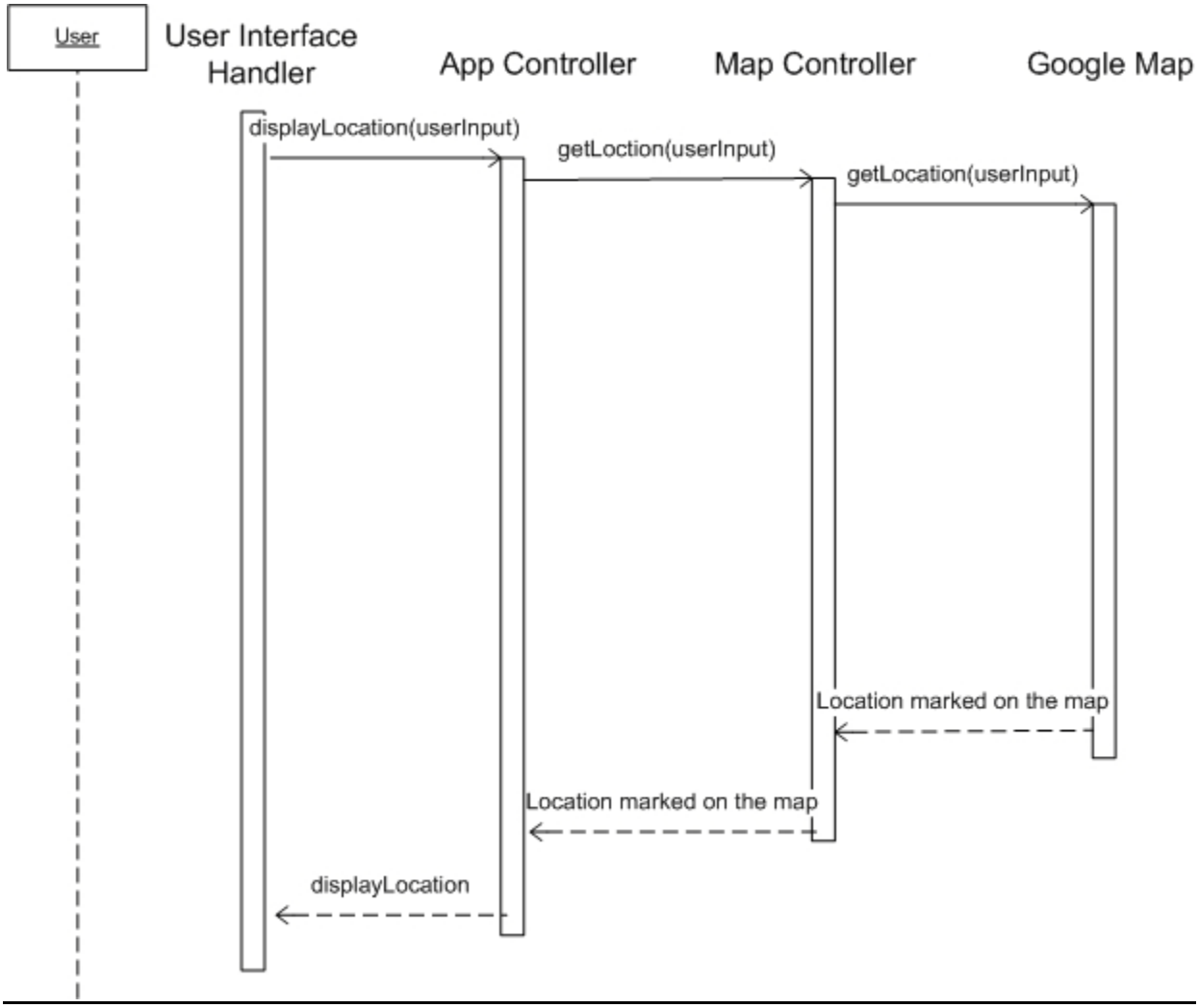


Sequence diagrams

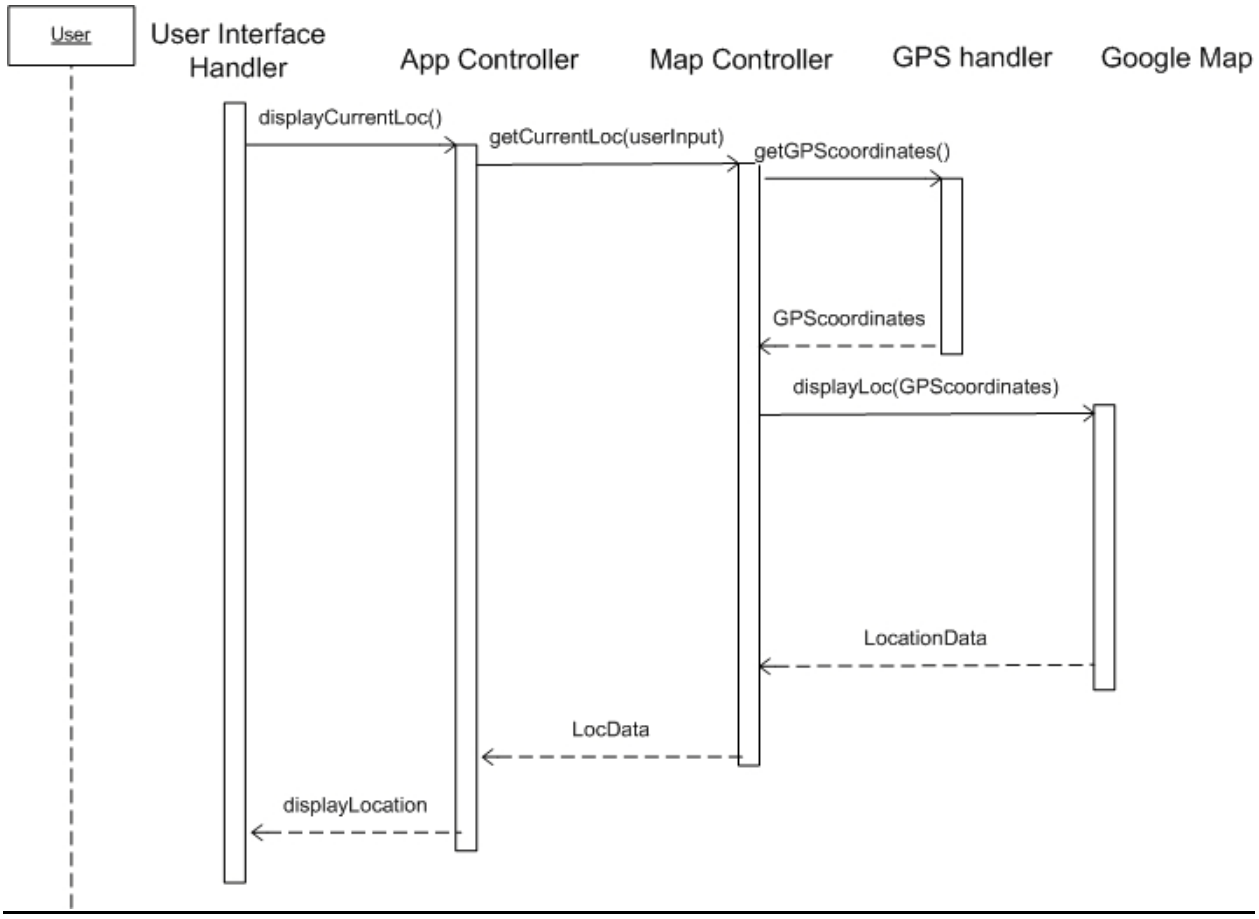
USECASE 1: Get the best possible match for the Location Name entered by user



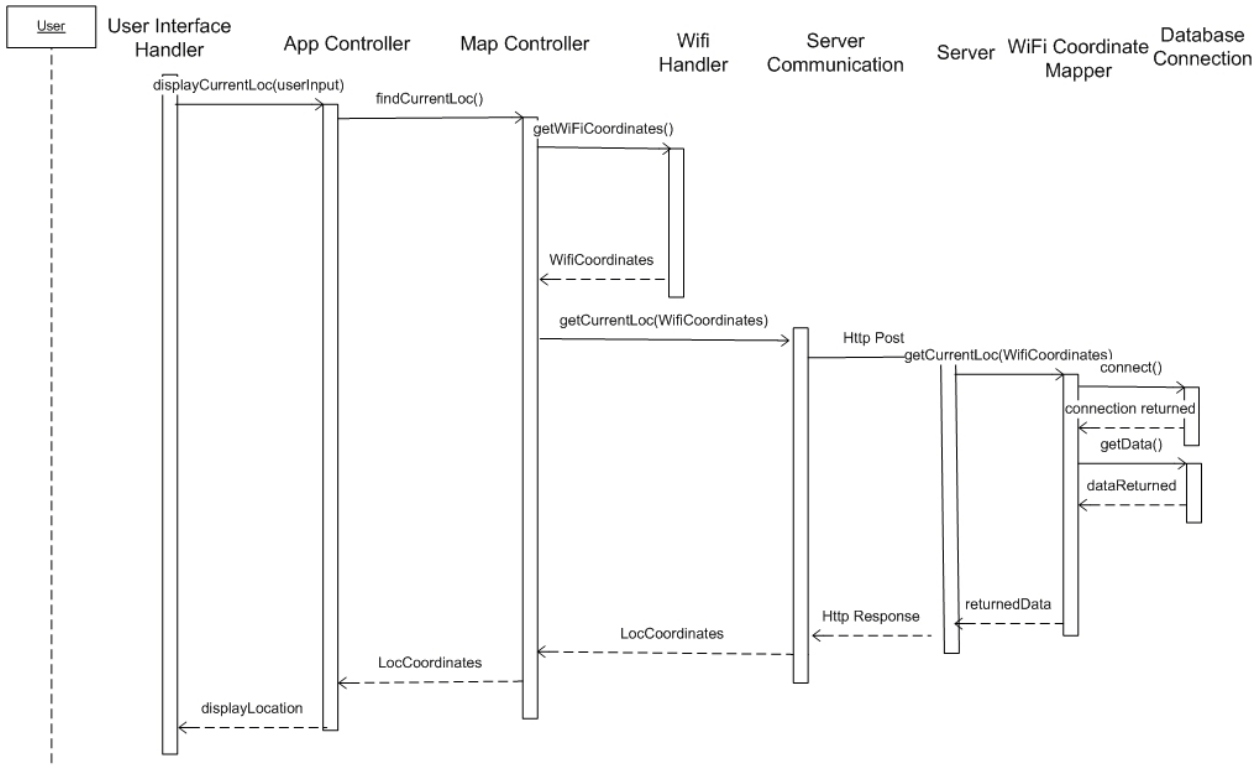
USECASE 2: Display Current Location on Map Given the Location Name



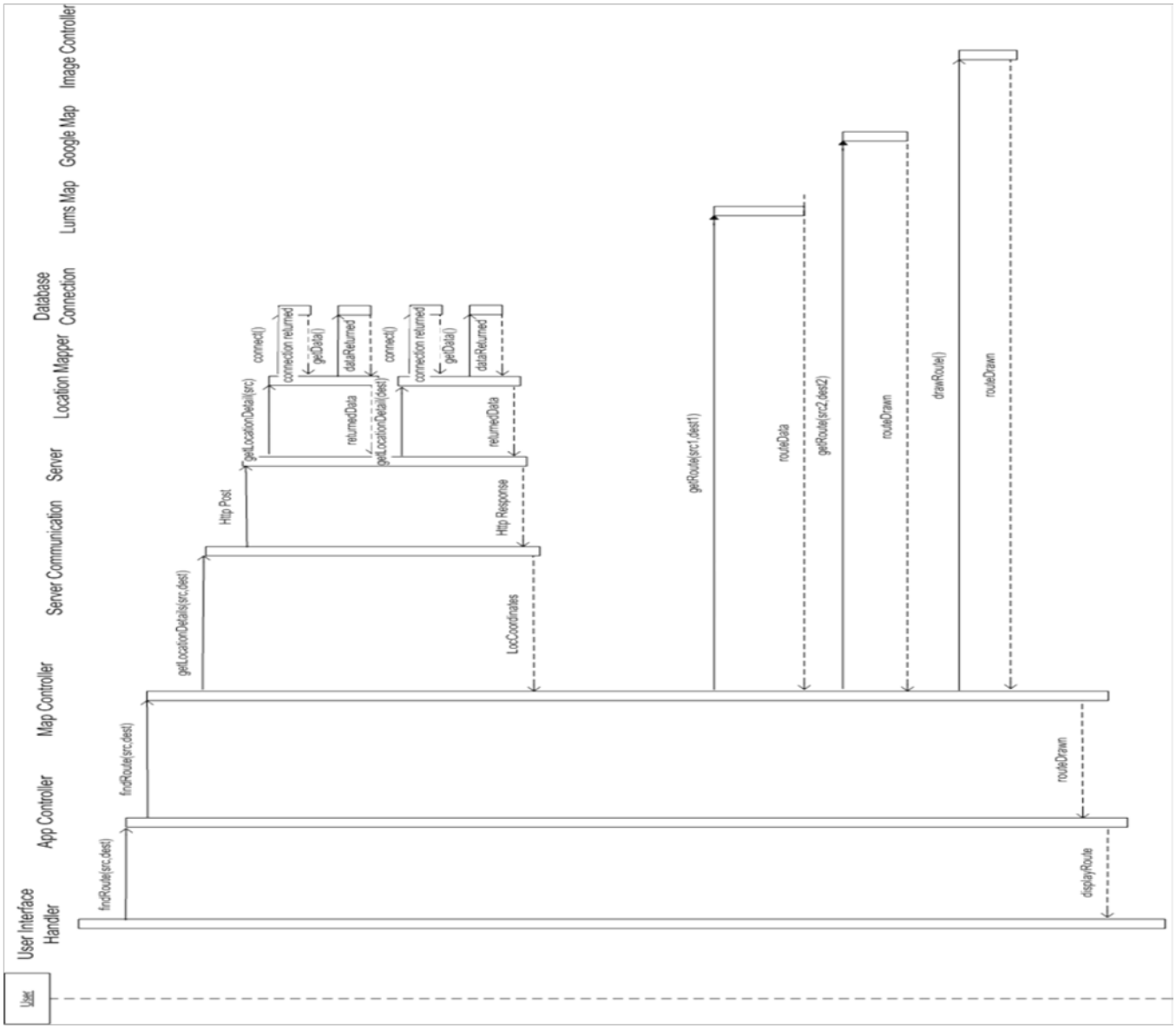
USECASE 3: Display Current Location on Map by Coordinates (CASE 1: OUTDOOR)



USECASE 4: Display Current Location on Map by Coordinates (CASE 2: INDOOR)



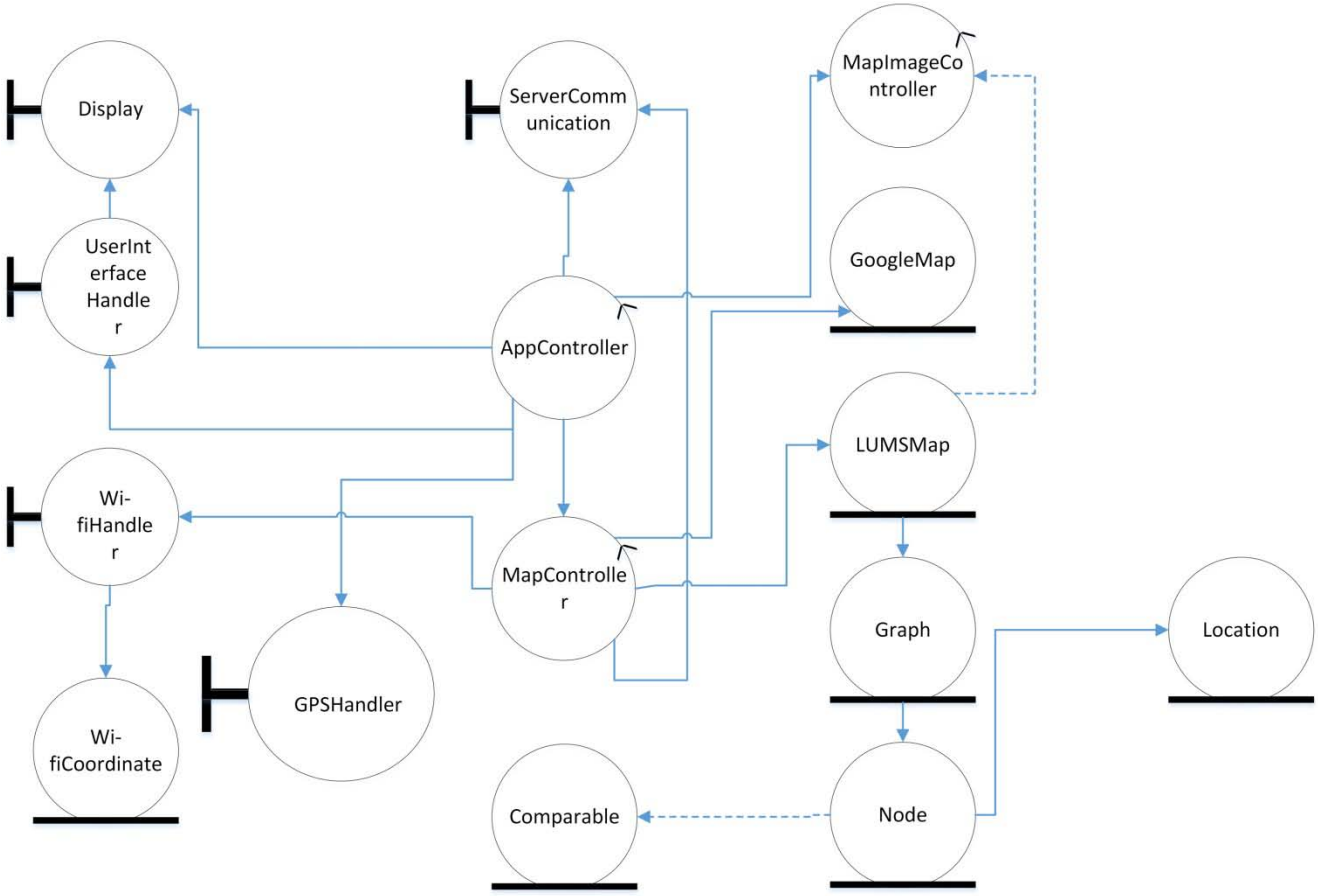
USECASE 5: Find and Display Route between Starting and Destination Location



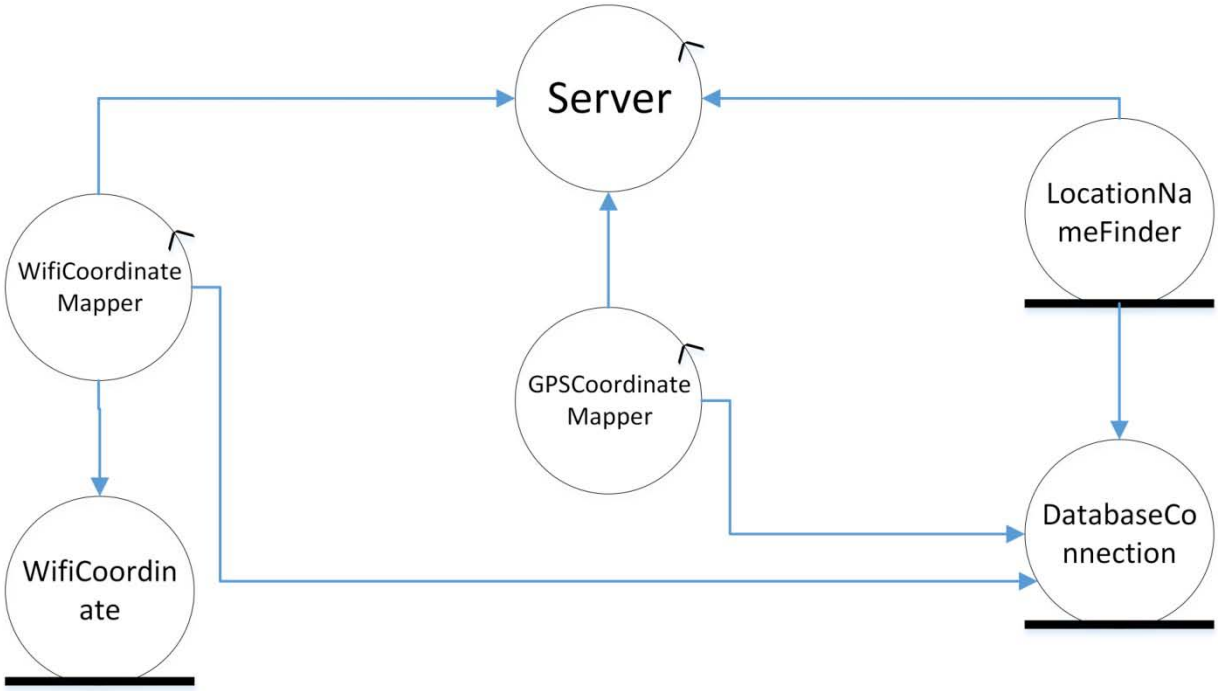
Class diagram

(Class Diagram using Entity, Boundary and Control Symbols)

Class Diagram for the main application.

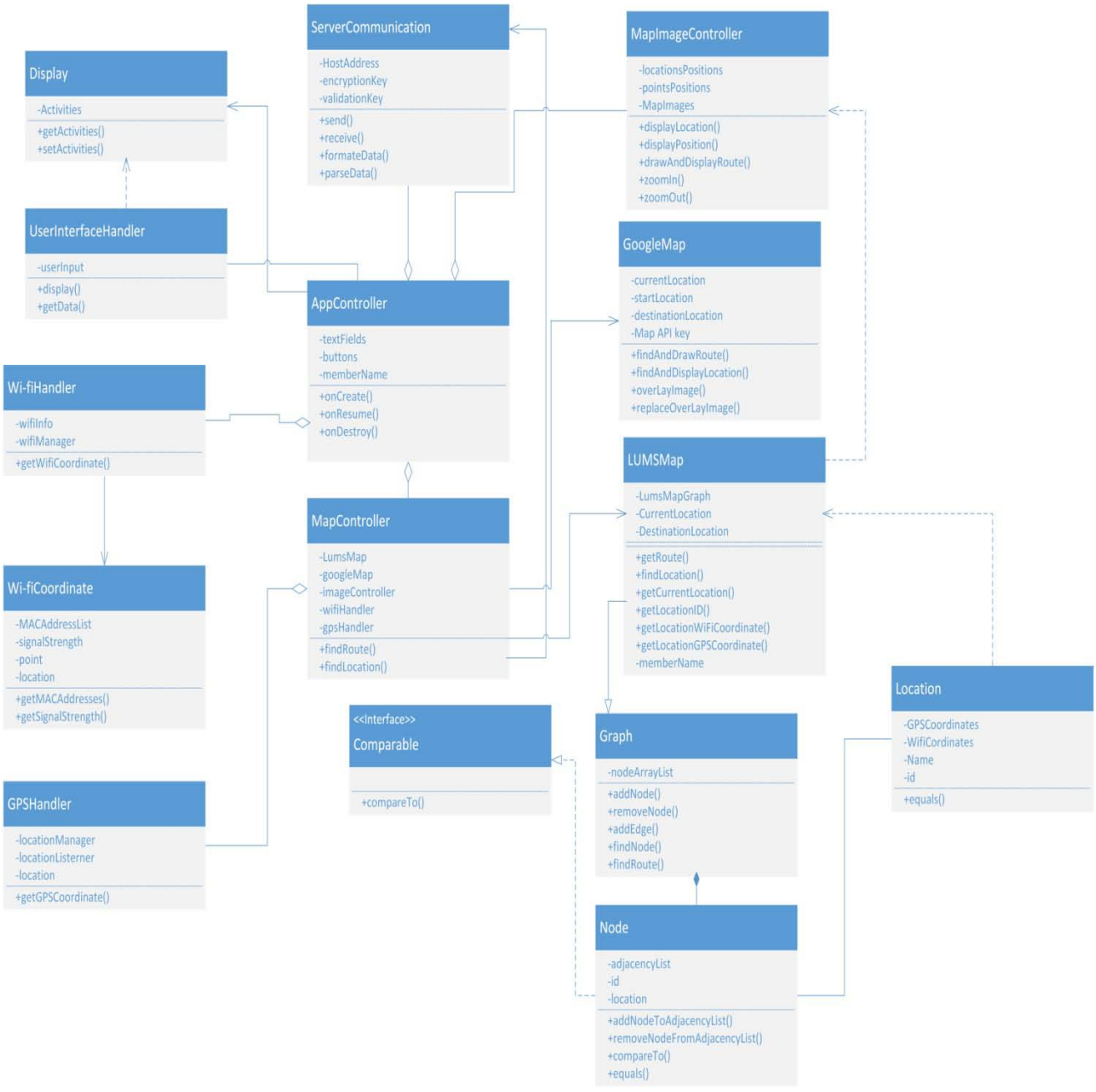


Class Diagram for the server side.

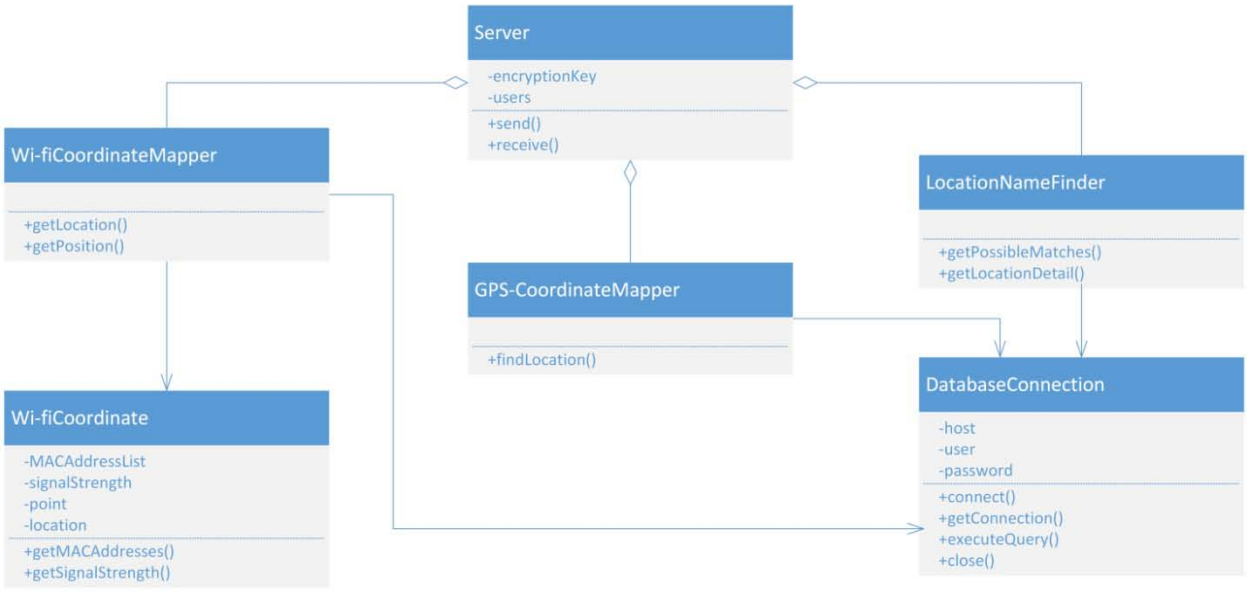


(Design Class Diagram with Attributes and Methods)

Main Application Class Diagram:

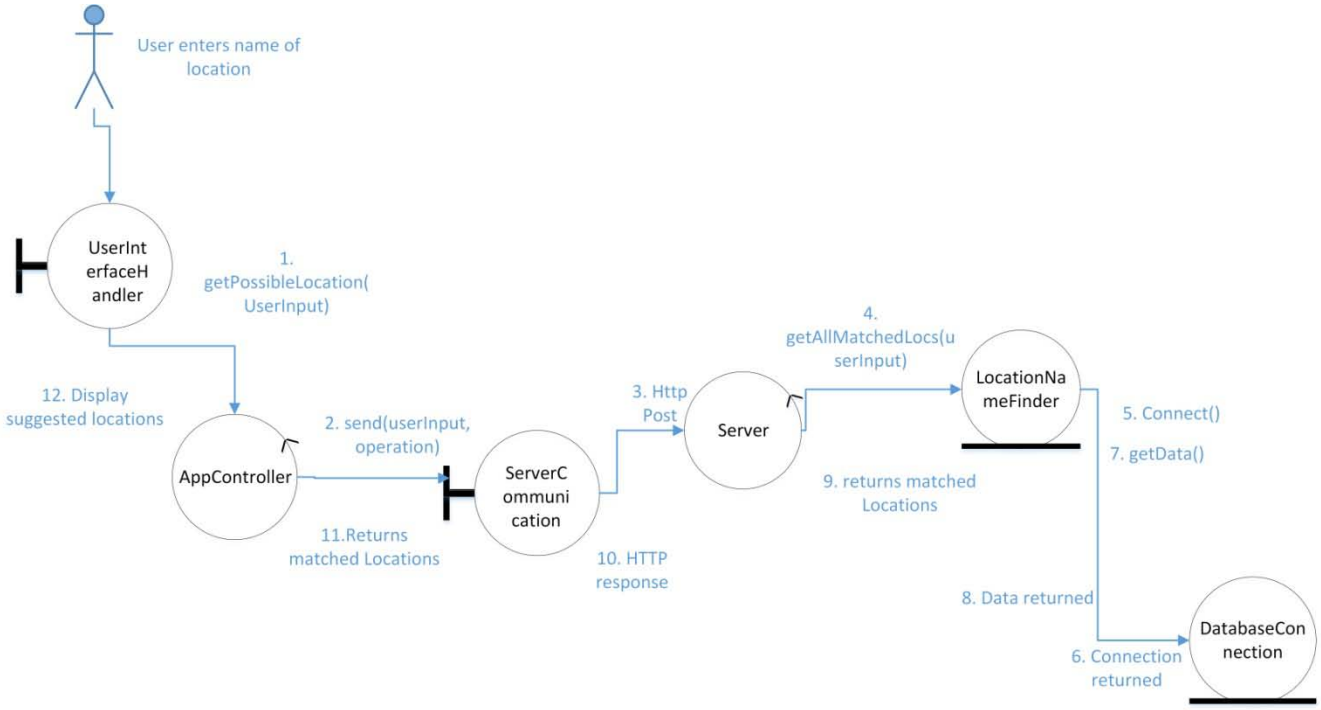


Server-side Class Diagram:

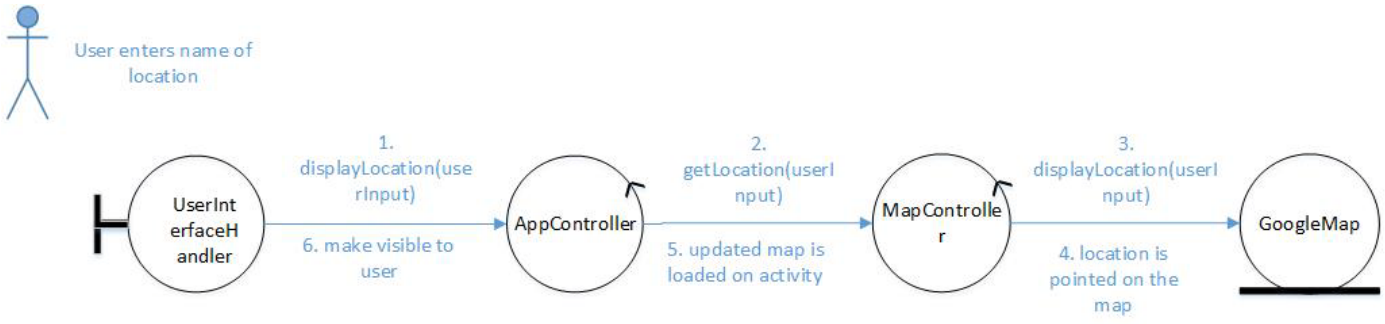


Collaboration Diagrams

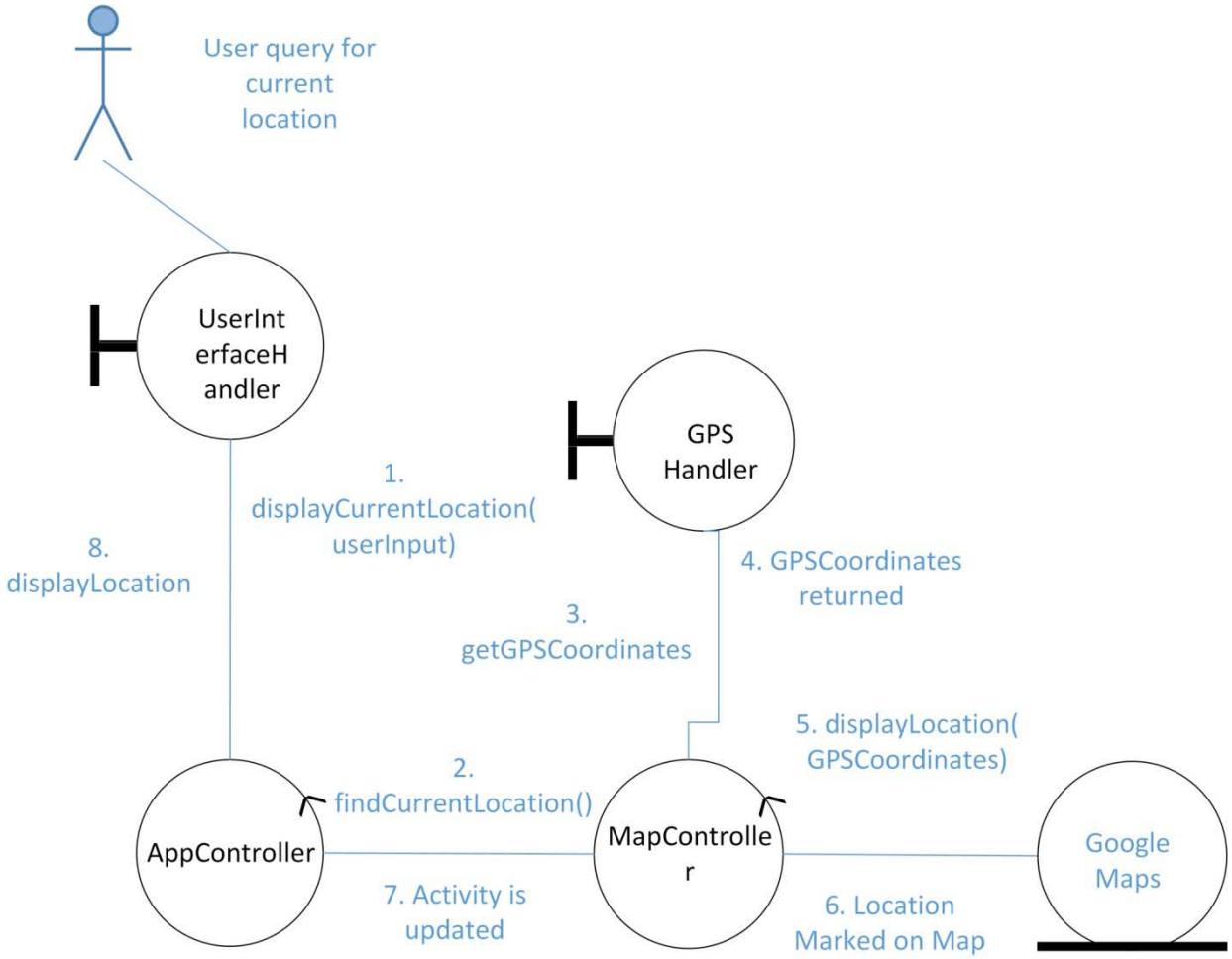
USECASE 1: Get the best possible match for the Location Name entered by user



USECASE 2: Display Current Location on Map Given the Location Name

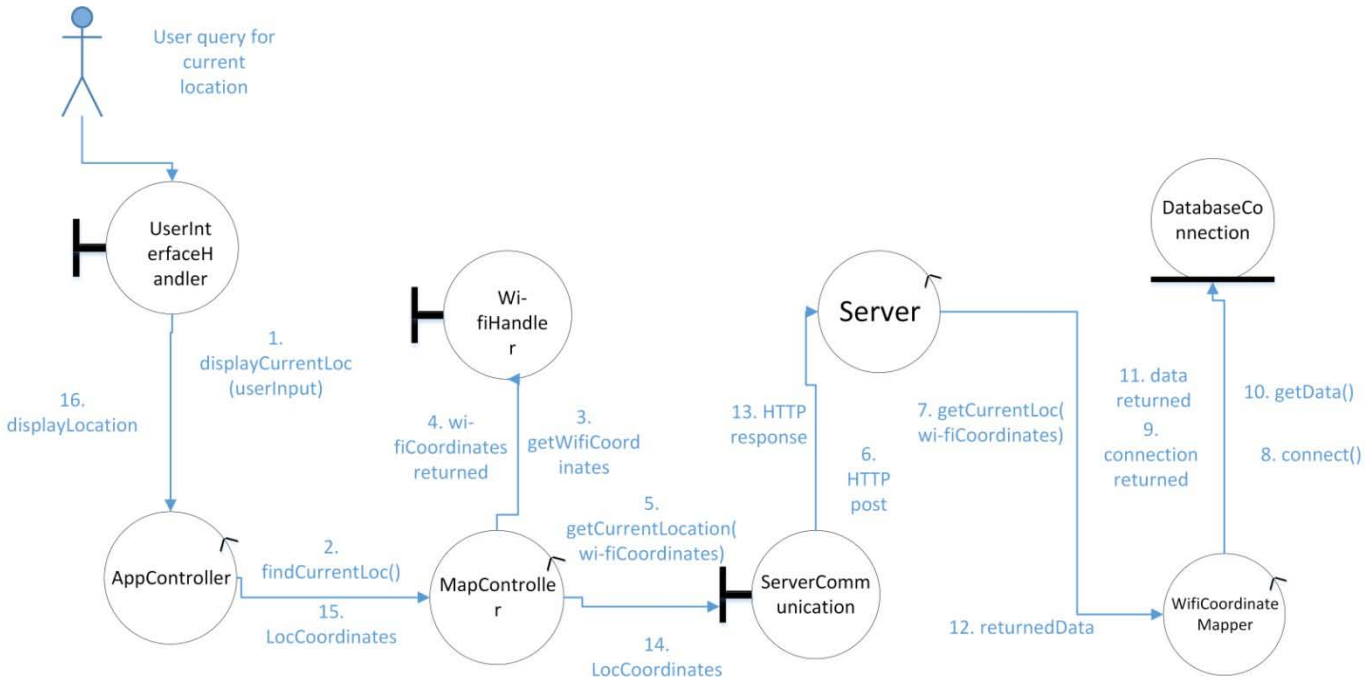


USECASE 3: Display Current Location on Map by Coordinates (CASE 1: OUTDOOR)



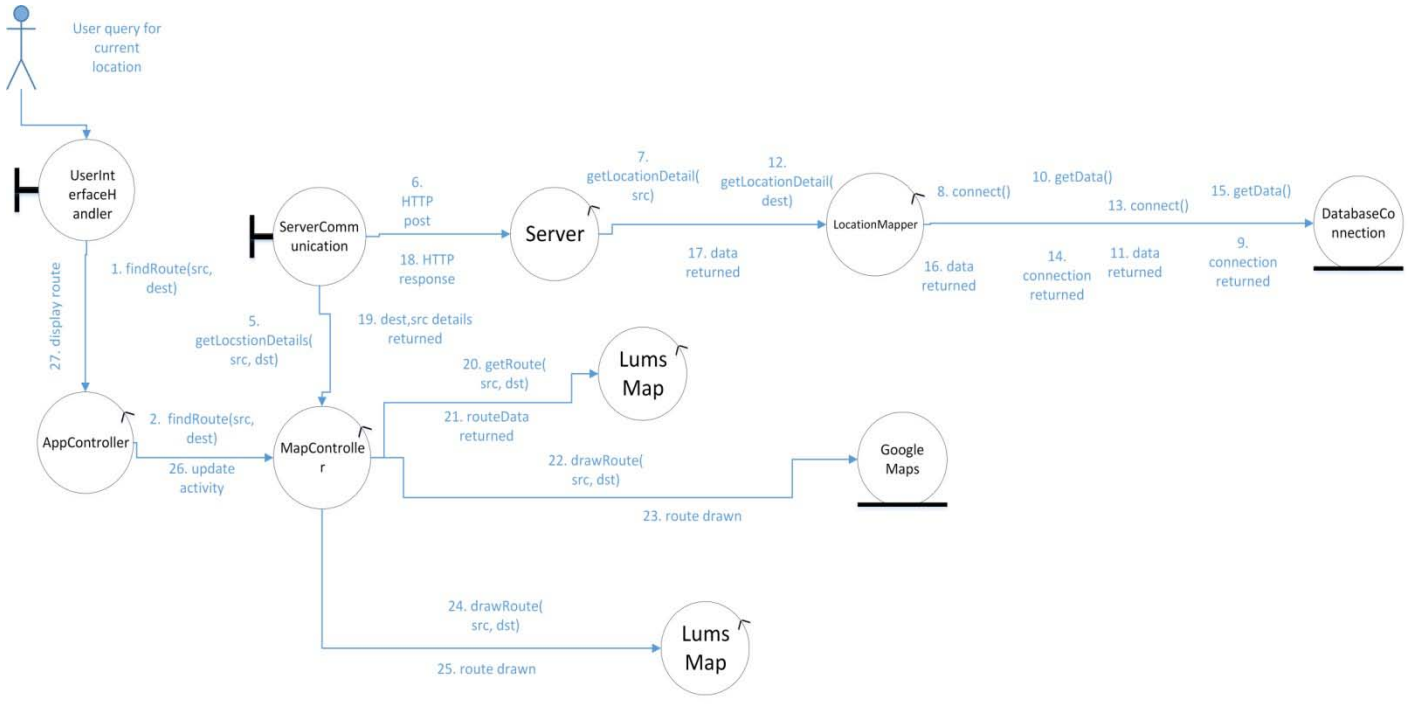
USECASE 3

USECASE 4: Display Current Location on Map by Coordinates (CASE 2: INDOOR)



USECASE 4

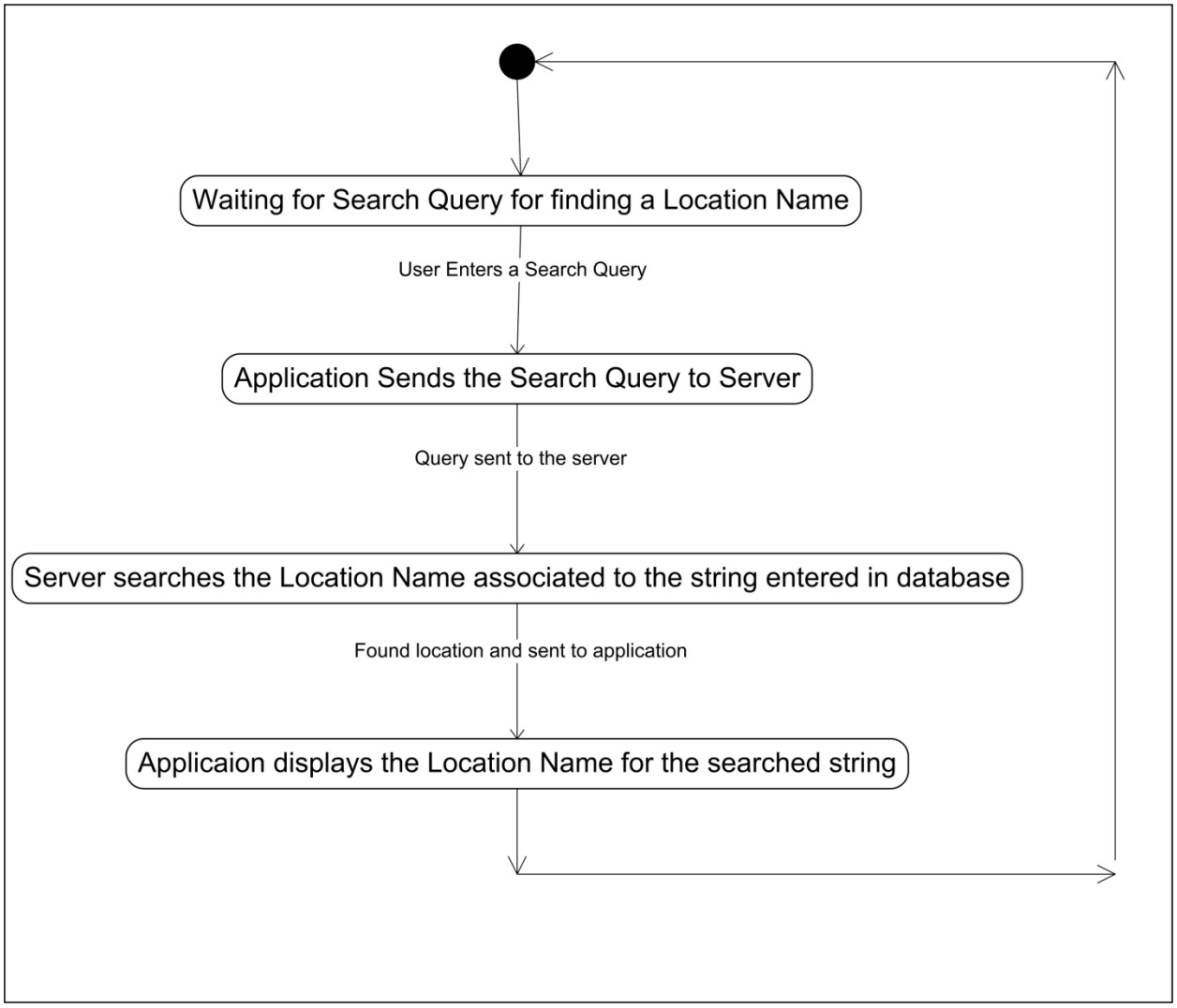
USECASE 5: Find and Display Route between Starting and Destination Location



USECASE 4

State charts

USECASE 1: Get the best possible match for the Location Name entered by user



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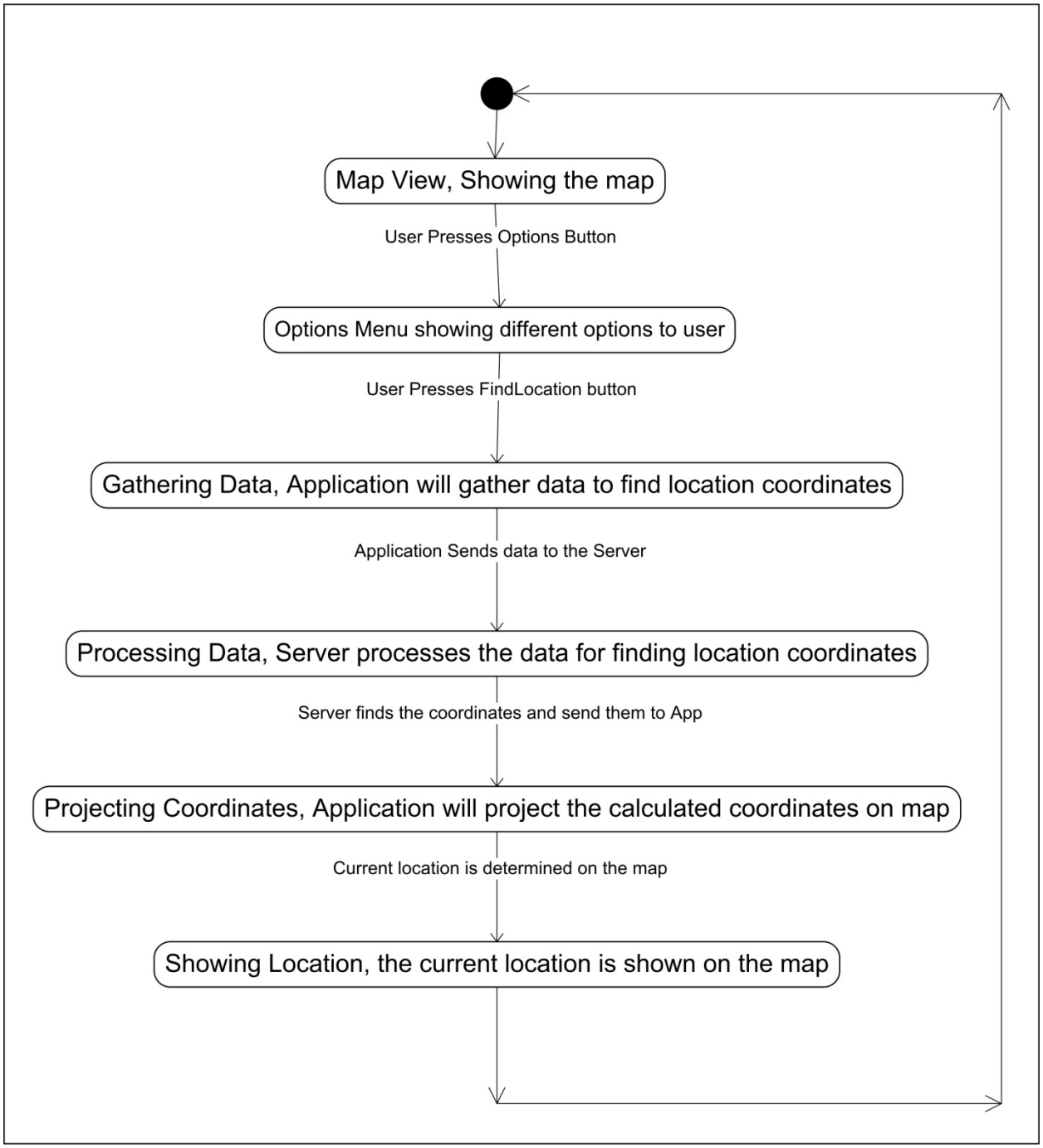

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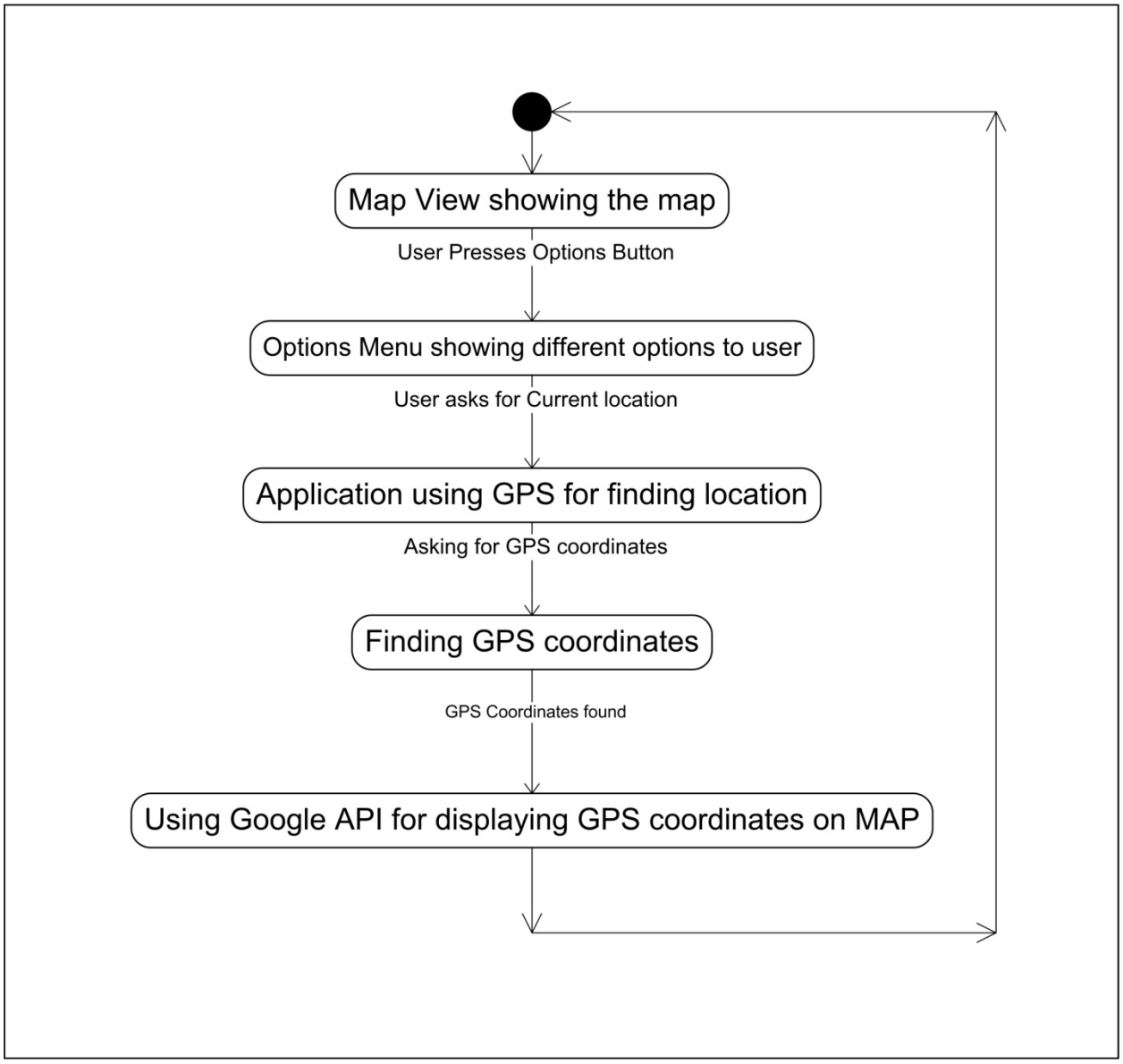
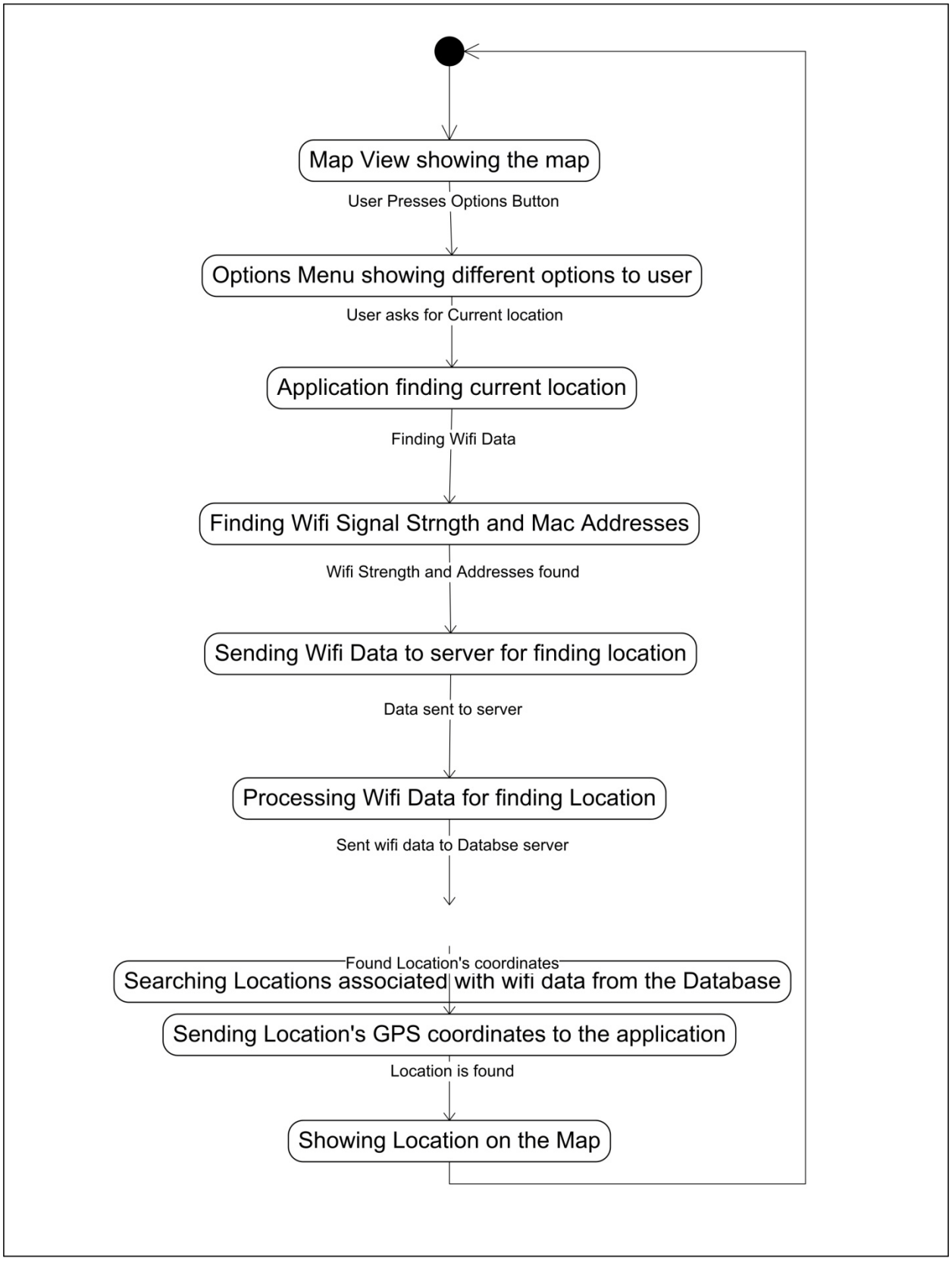


USECASE 4: Display Current Location on Map by Coordinates (CASE 2: INDOOR)



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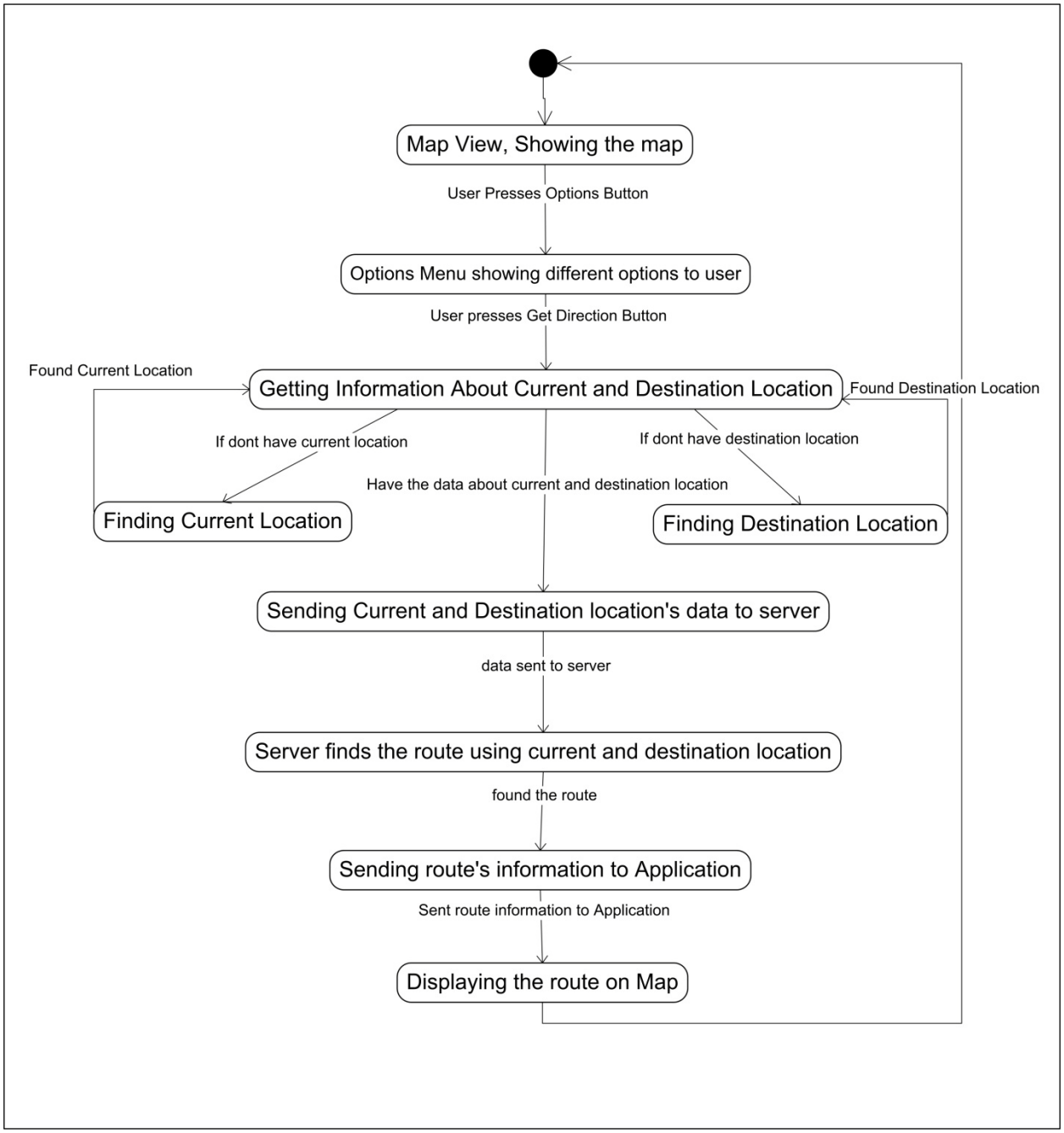
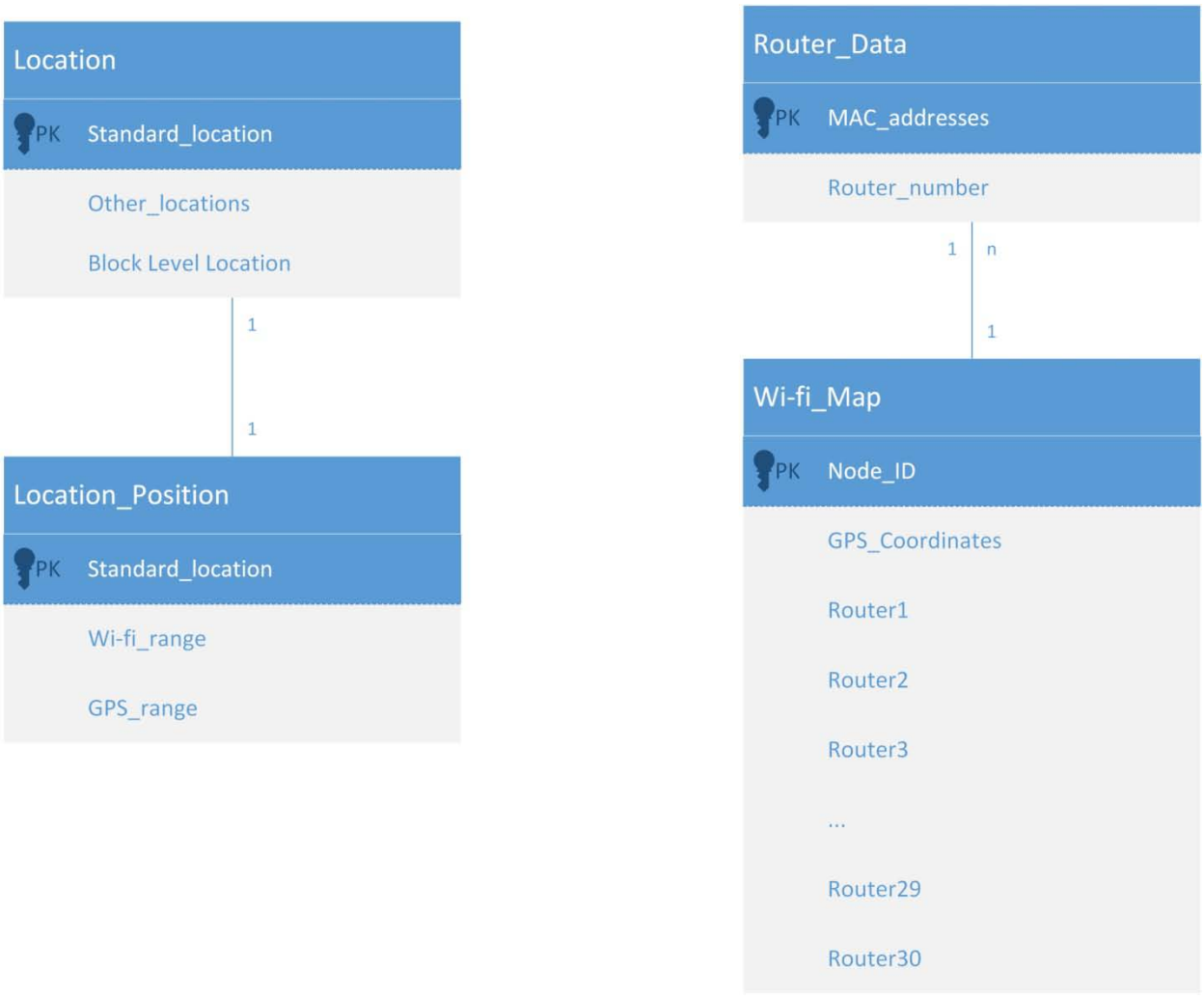
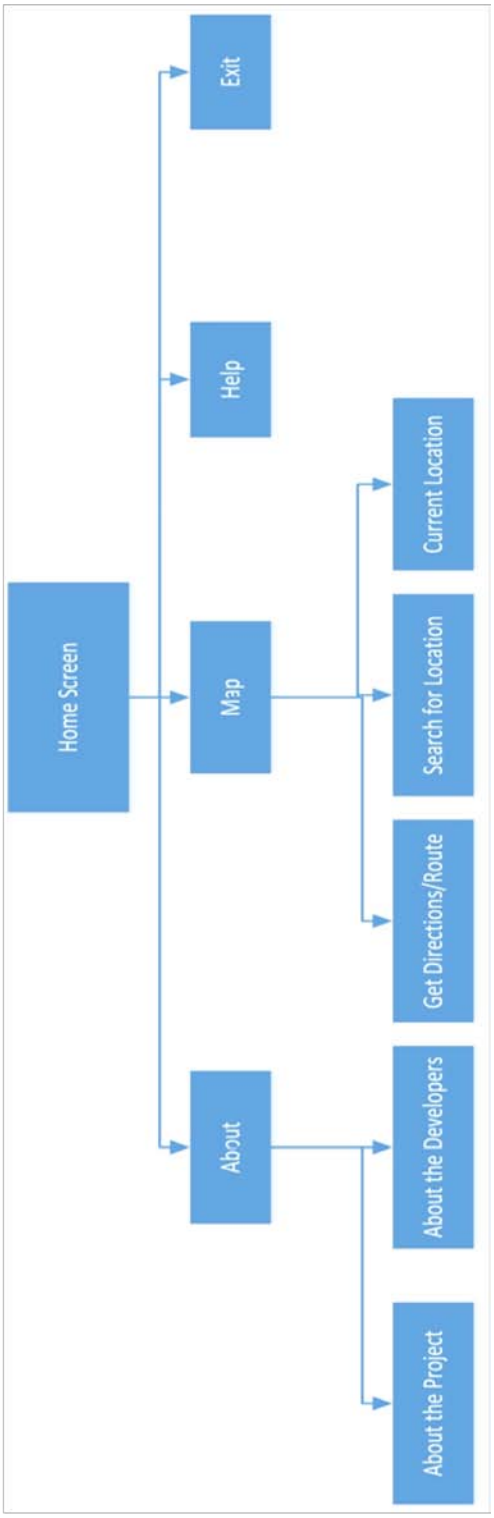


DB Schema/ ERD



SiteMap


Home Screen
Exit
Help
Map
About
Current Location
Search for Location
Get Directions/Route
About the Developers
About the Project

Human Interface Design

Screens

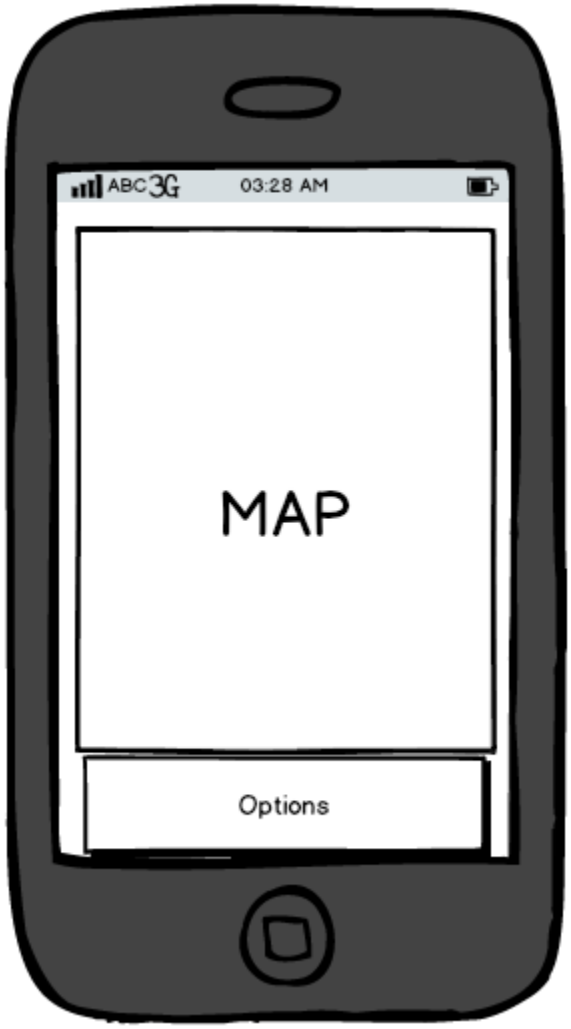
Following are the sample input screens for the LUMS Campus Navigator.

HomePage:

Options Screen:

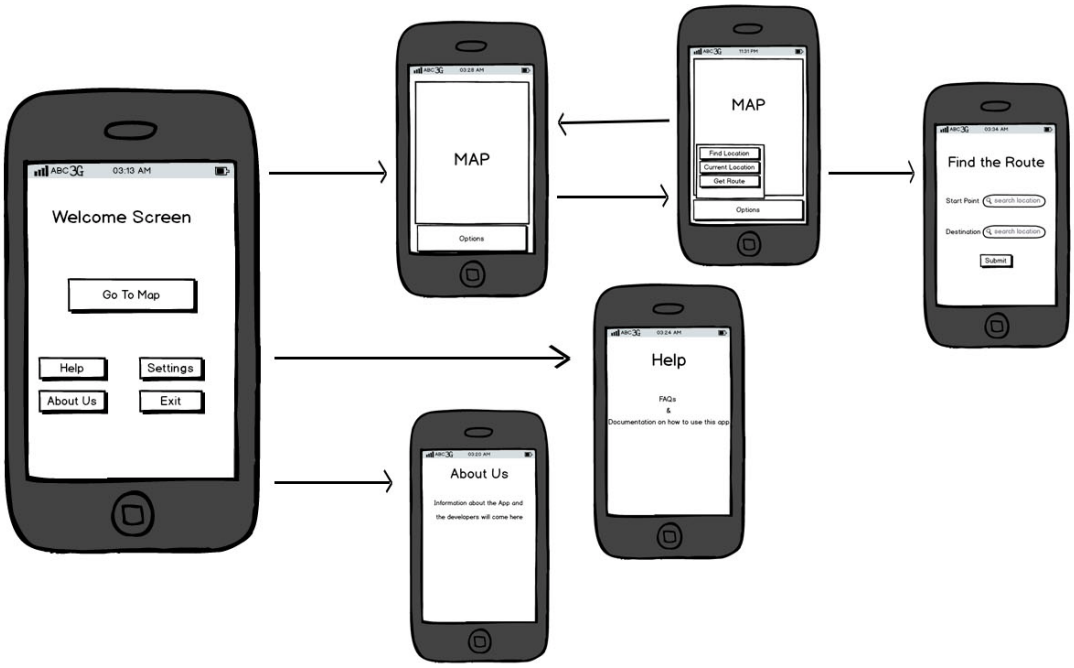
Find Route Screen:

Display MAP Screen:



About Us:

ABC 3G
03:20 AM
About Us
Information about the App and
the developers will come here

Help:

Navigation Flow