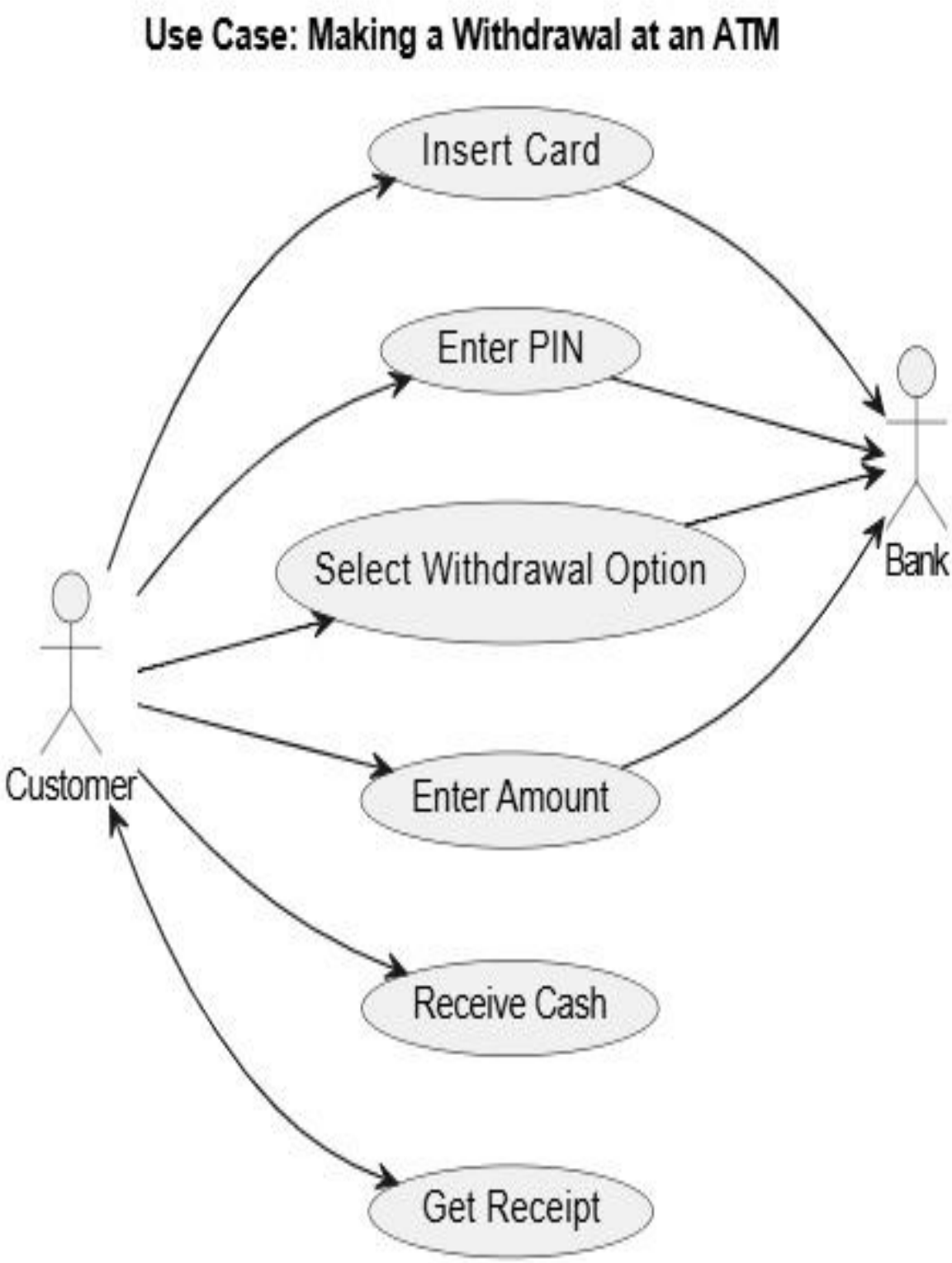
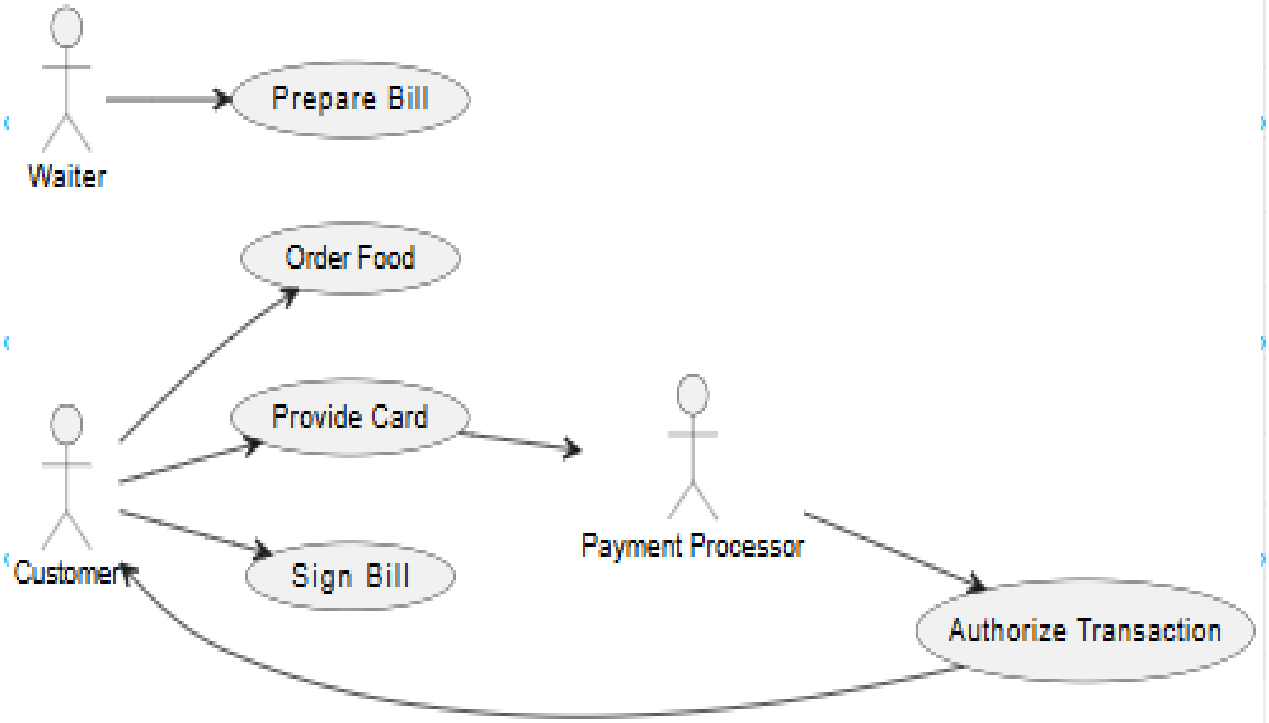
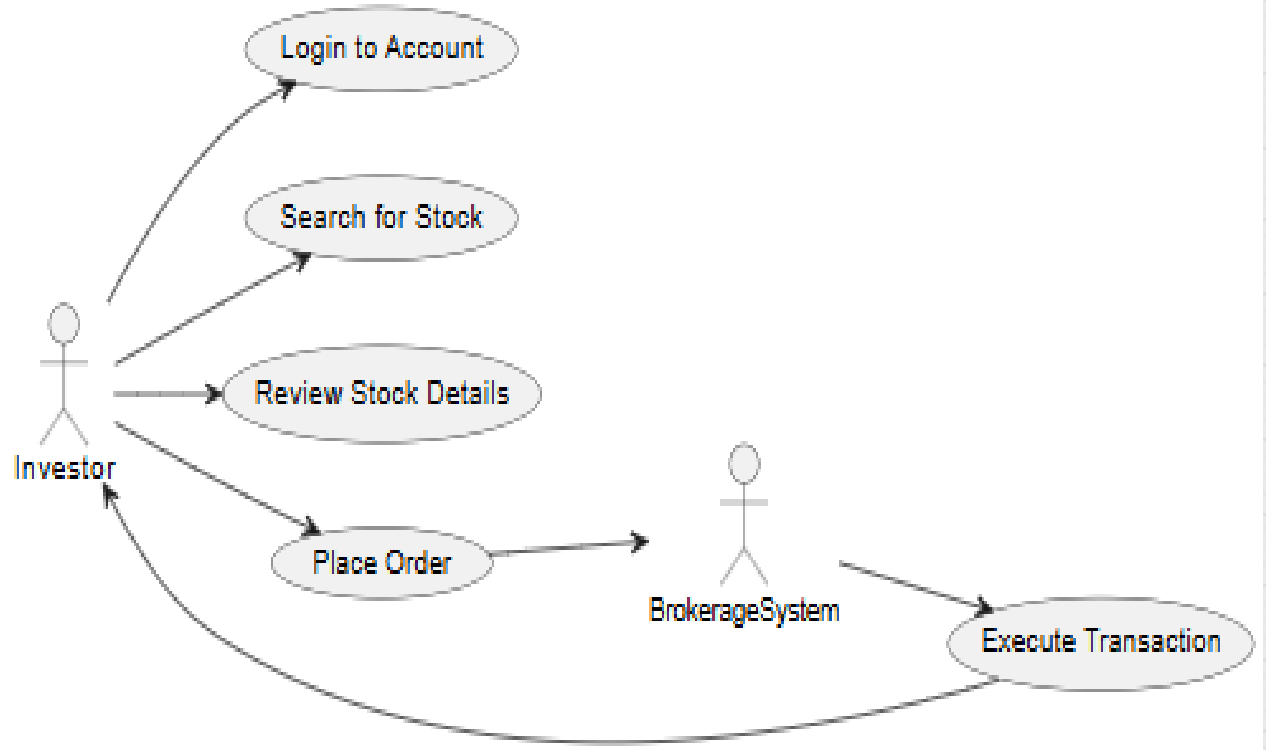
Problem no 5-9



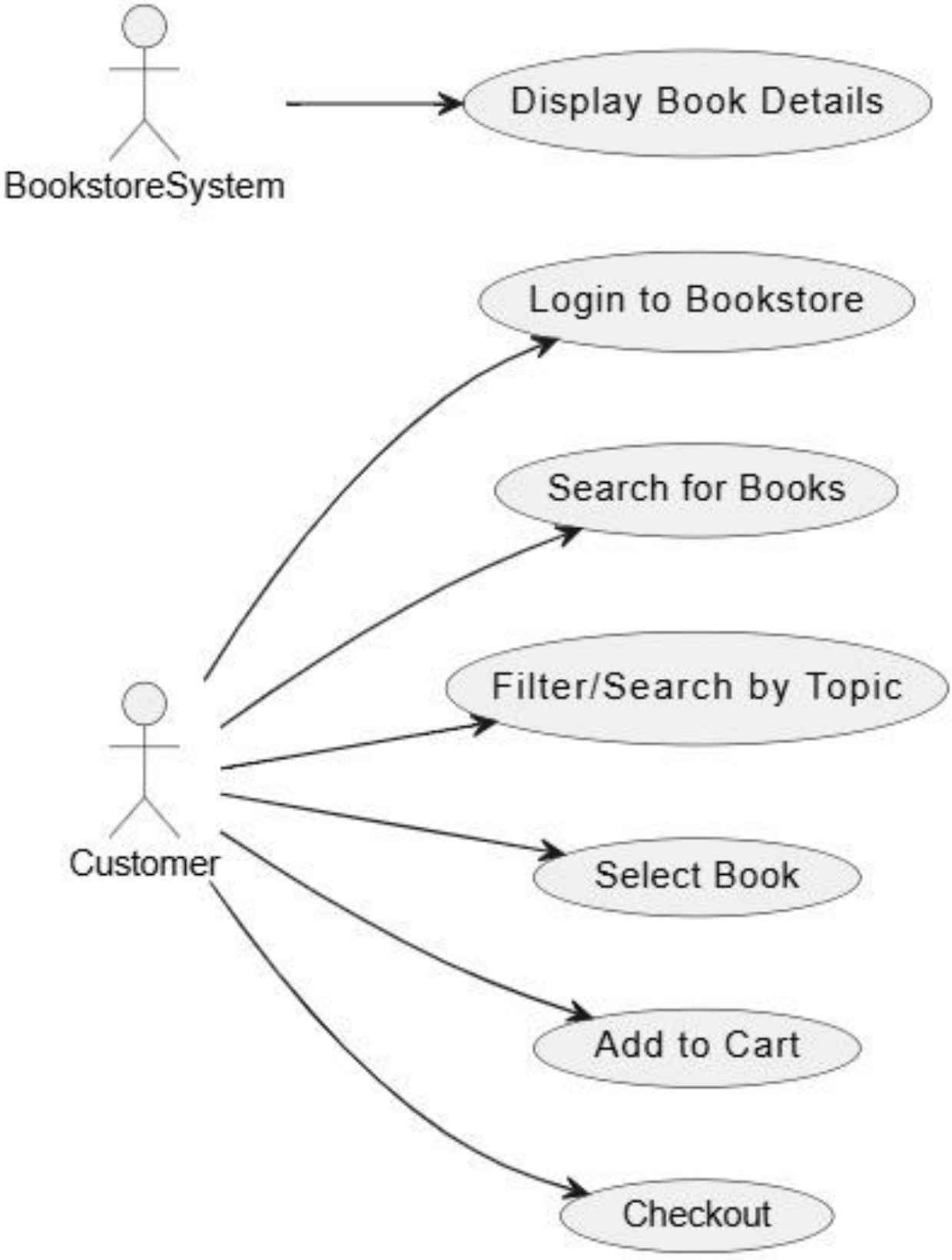
Use Case: Using Charge Card for a Meal at a Restaurant



Use Case: Buying a Stock Using an Online Brokerage Account

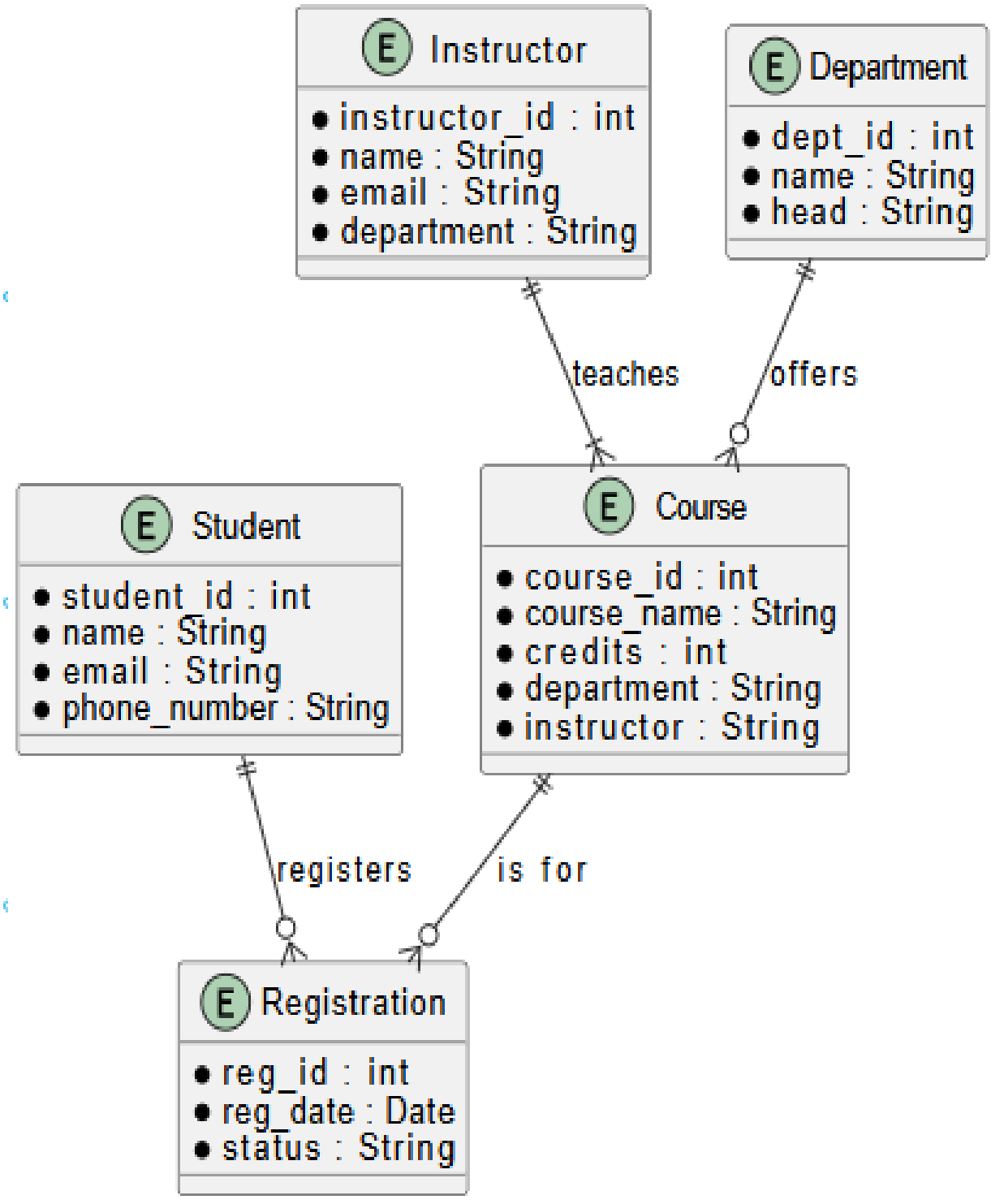


Use Case: Searching for Books in an Online Bookstore

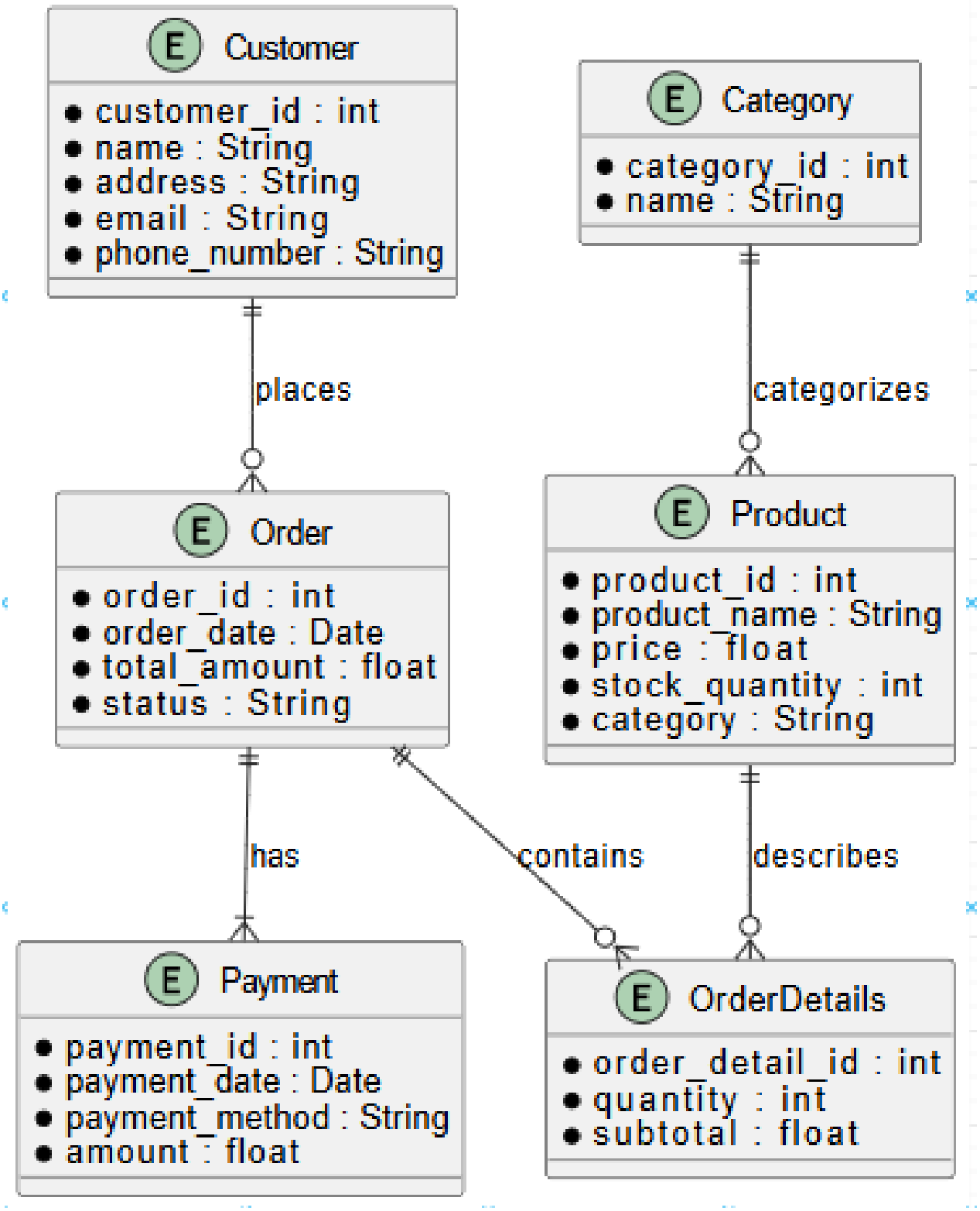


Problem no 6-5

ER DIAGRAM FOR COURSE REGISTRATION SYSTEM

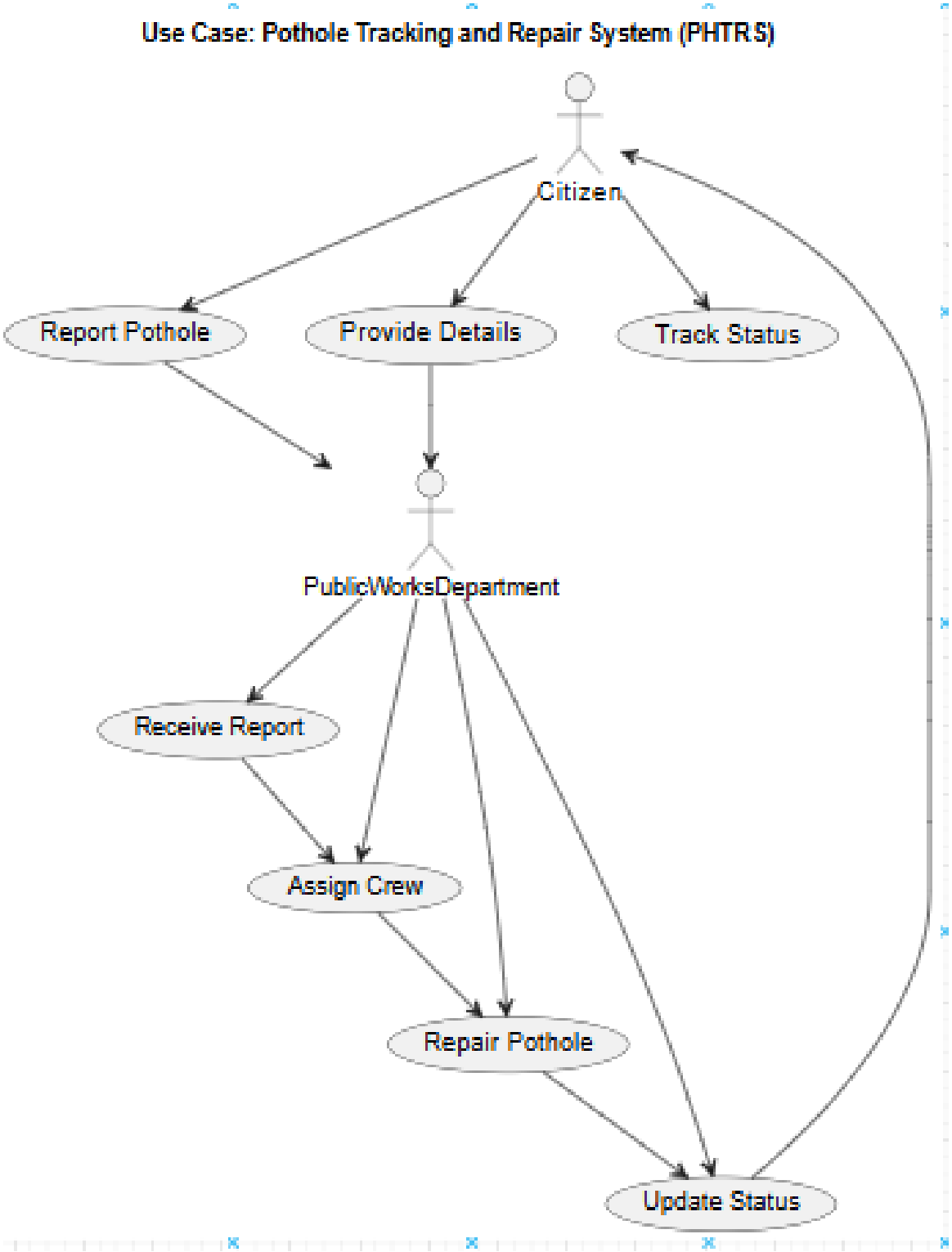


ER DIAGRAM FOR WEB BASED ORDER PROCESSING SYSTEM

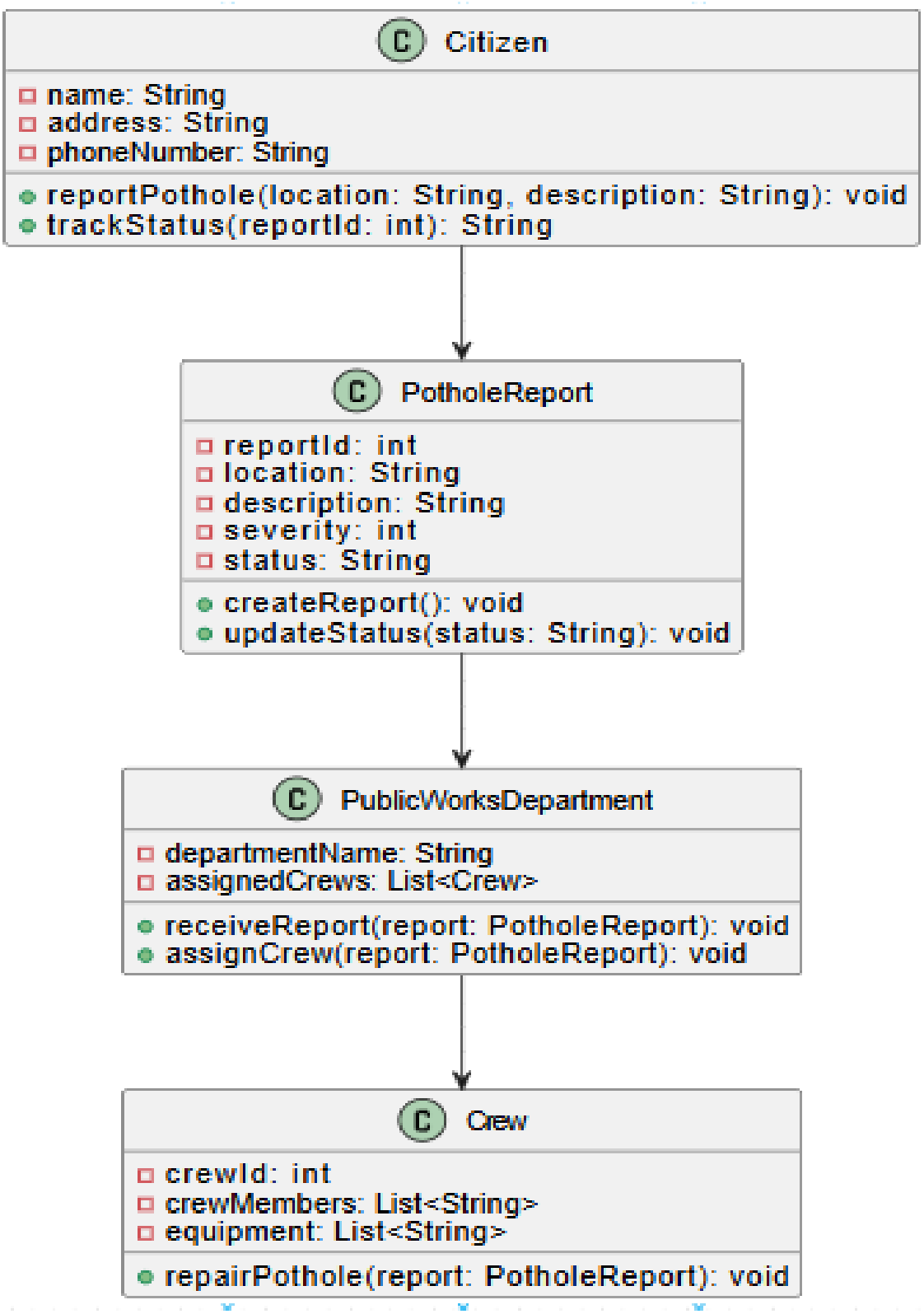


Problem no 6-6

UML USE CASE DIAGRAM FOR PHTRS SYSTEM

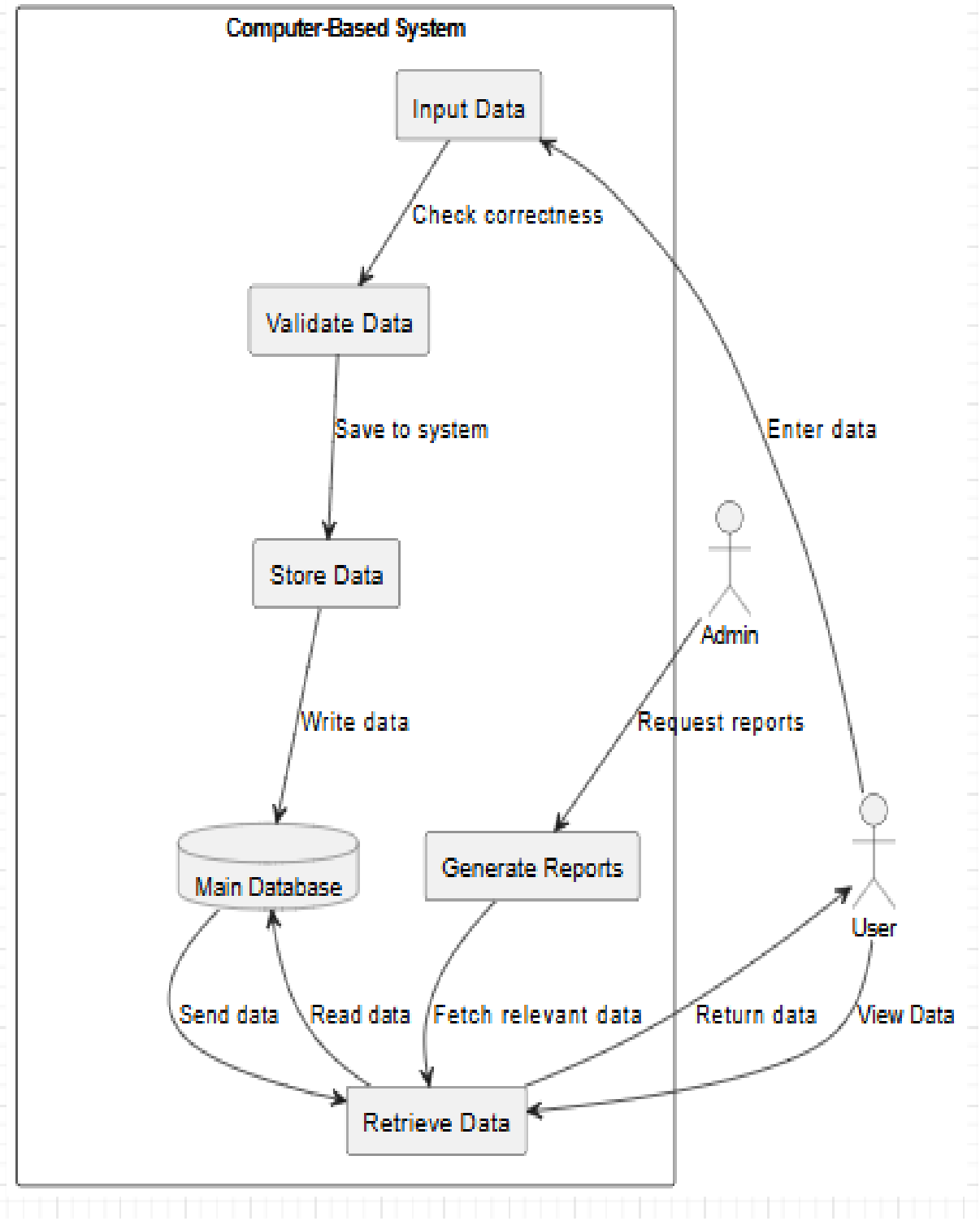


CLASS MODEL FOR PHTRS SYSTEM

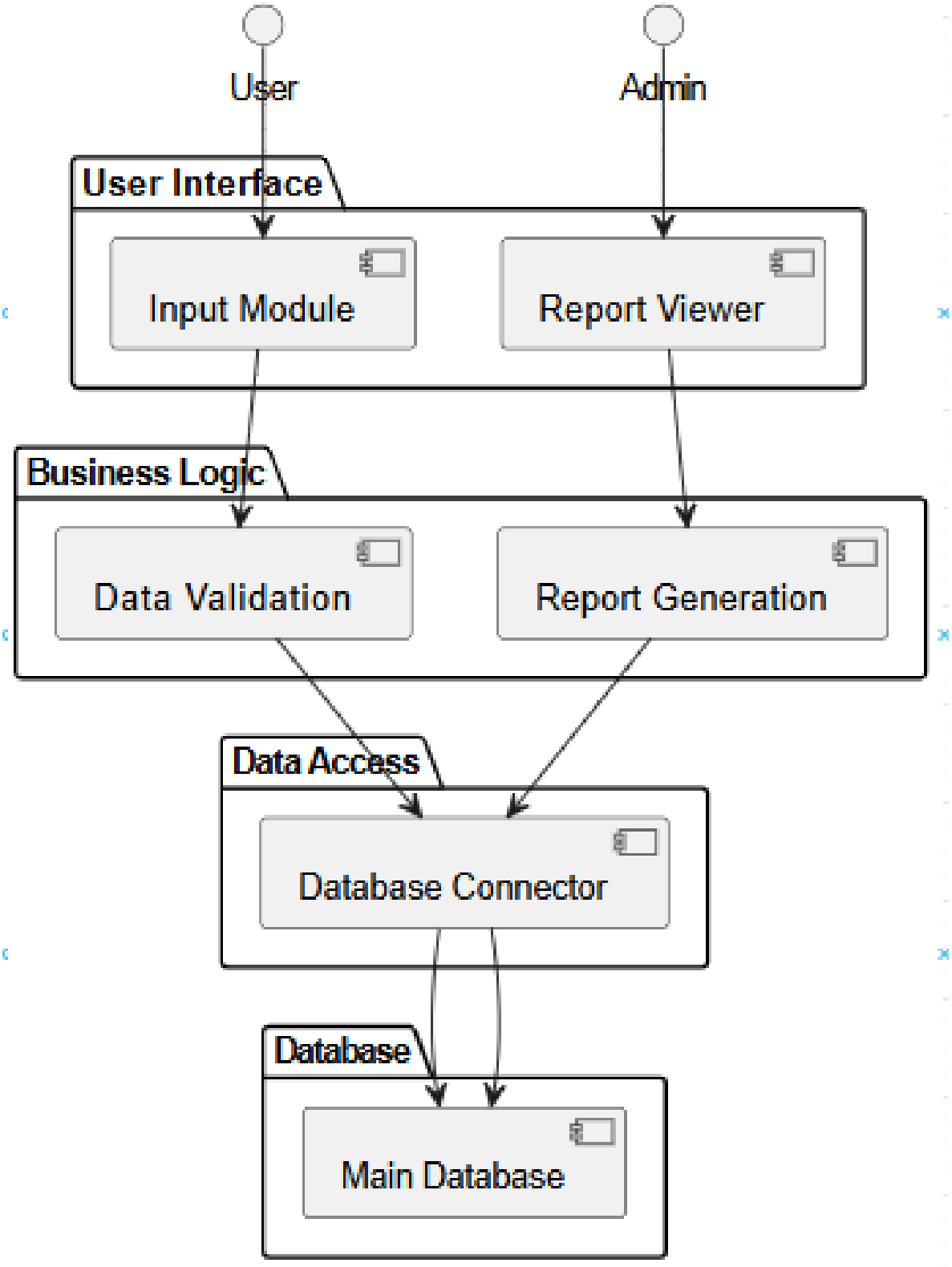


Problem no 9-8

DFD FOR A COMPUTER BASED SYSTEM

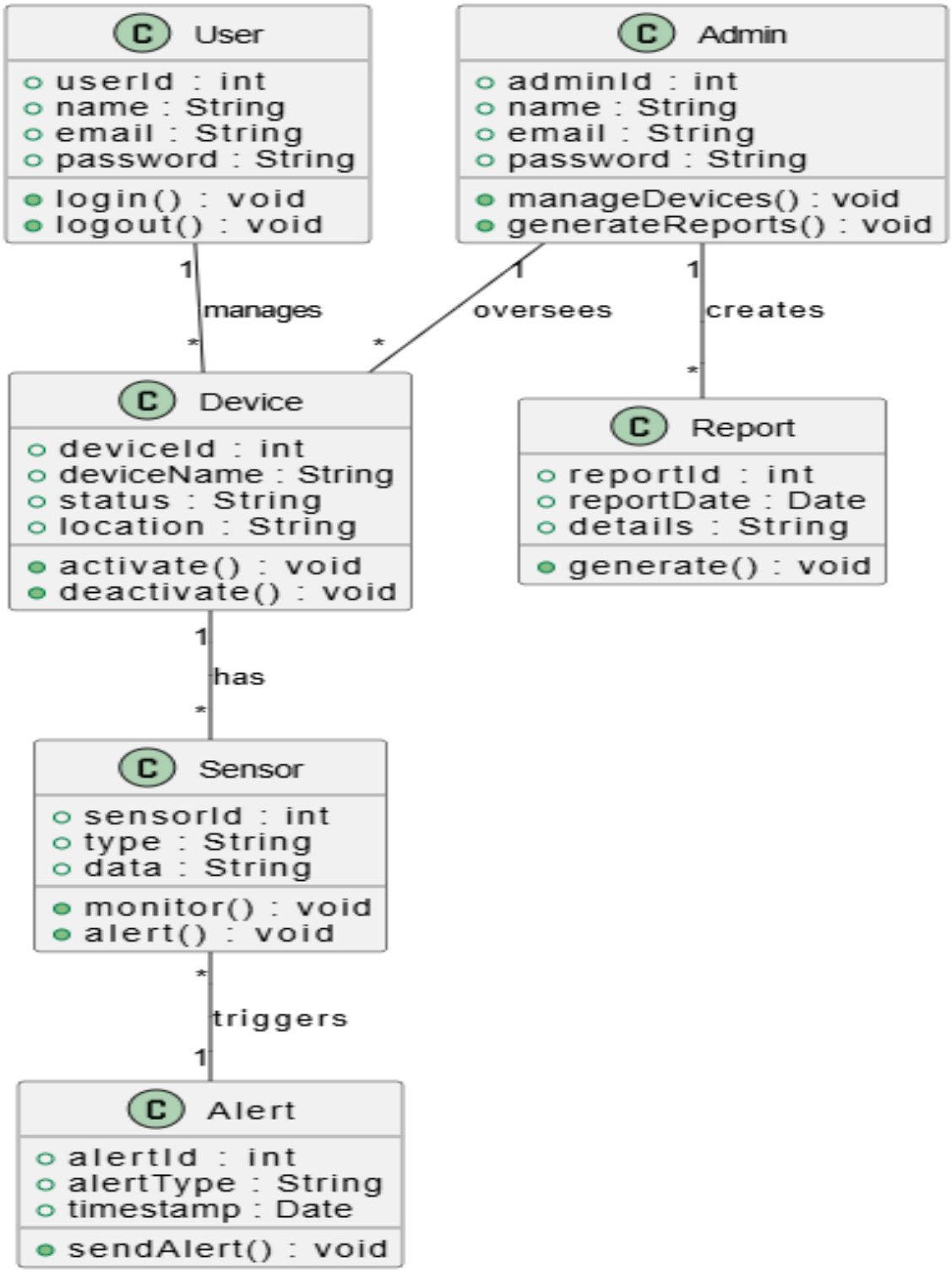


MAPPING DFD INTO A SOFTWARE ARCHITECTURE

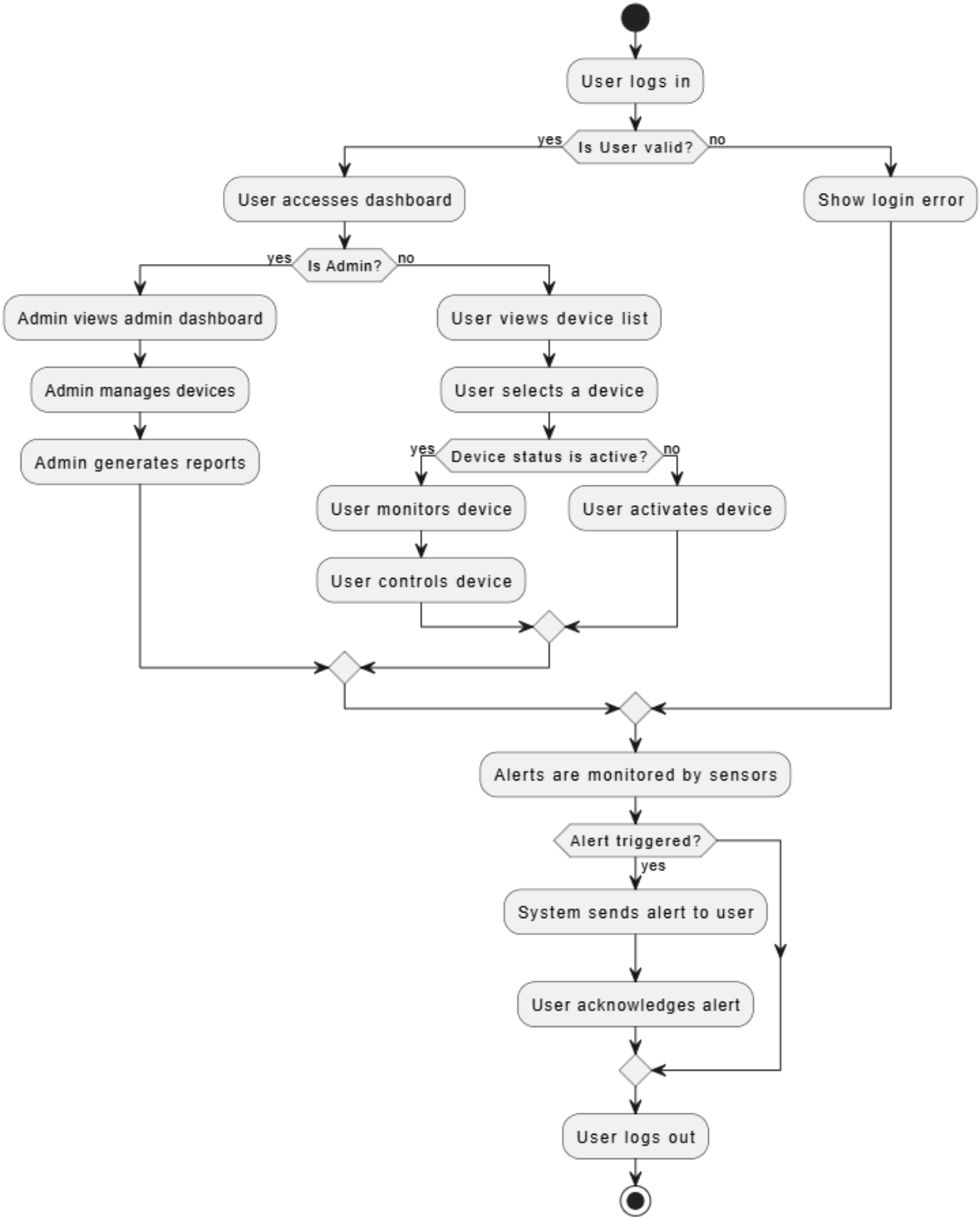


Problem no 10-8

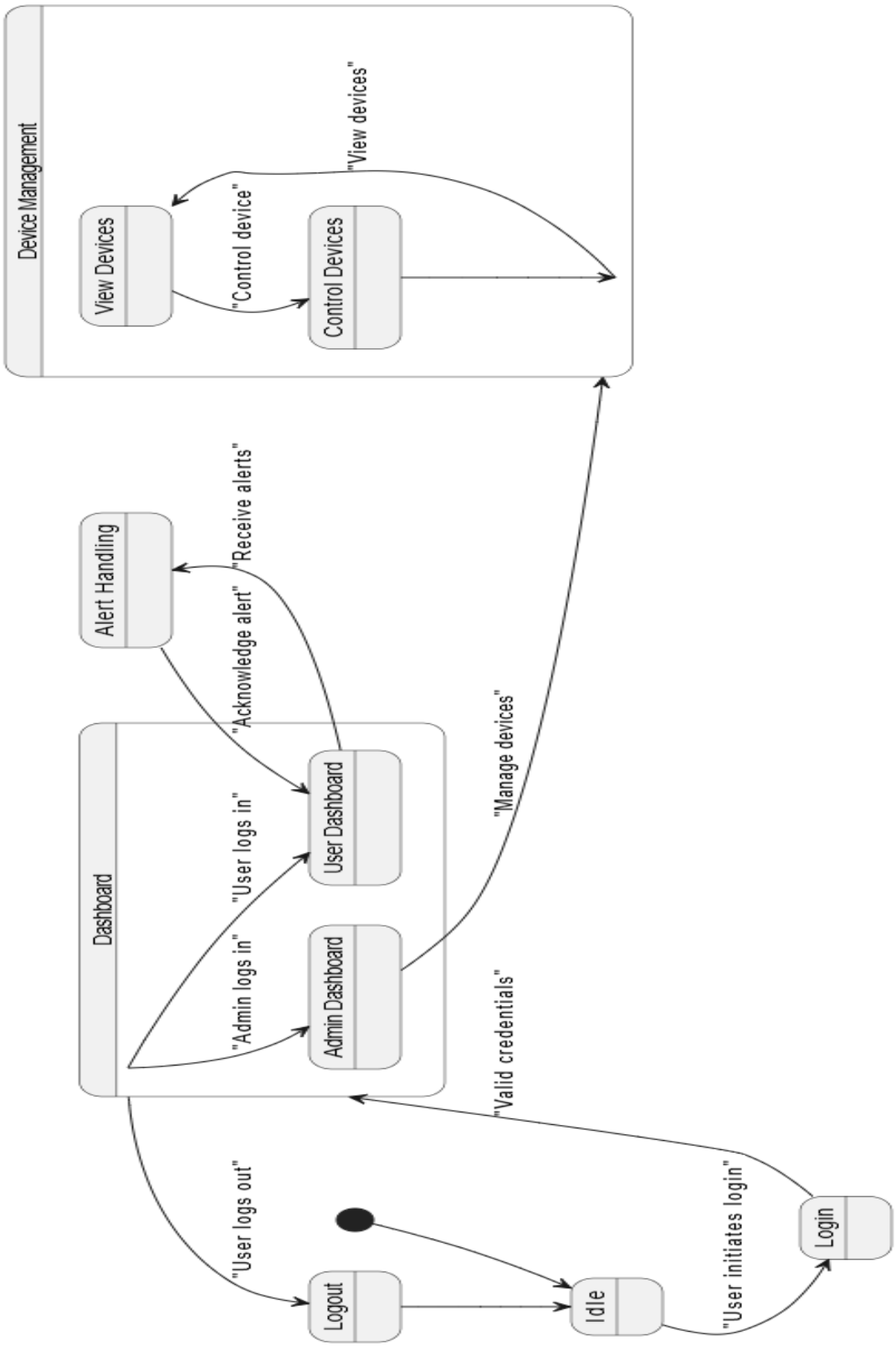
CLASS MODEL OF SAFEHOME SYSTEM



ACTIVITY DIAGRAM OF SAFEHOME

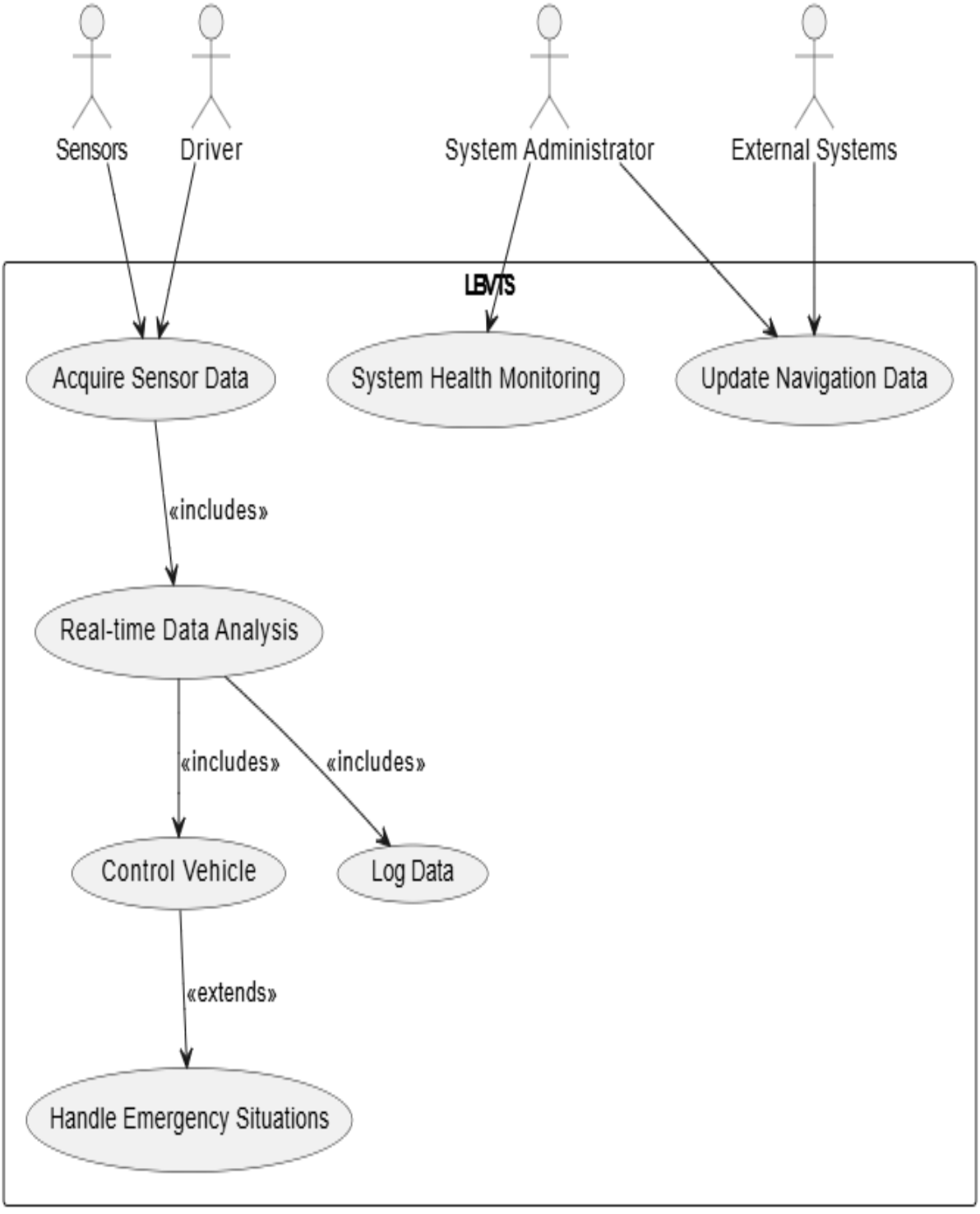


STATE CHART DIAGRAM OF SAFEHOME

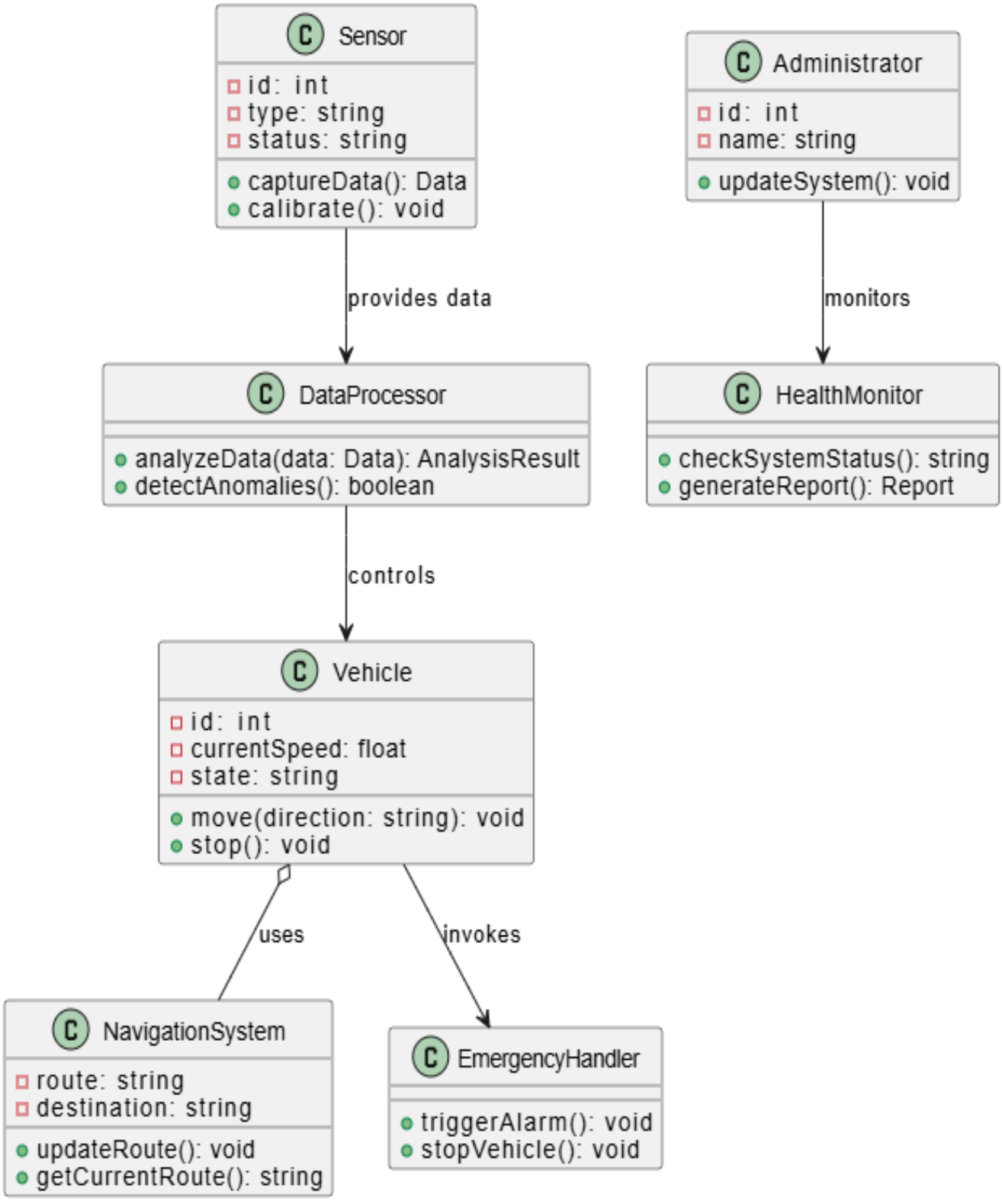


SCENERIO DRIVEN UML DIAGRAMS OF "LBVTS"

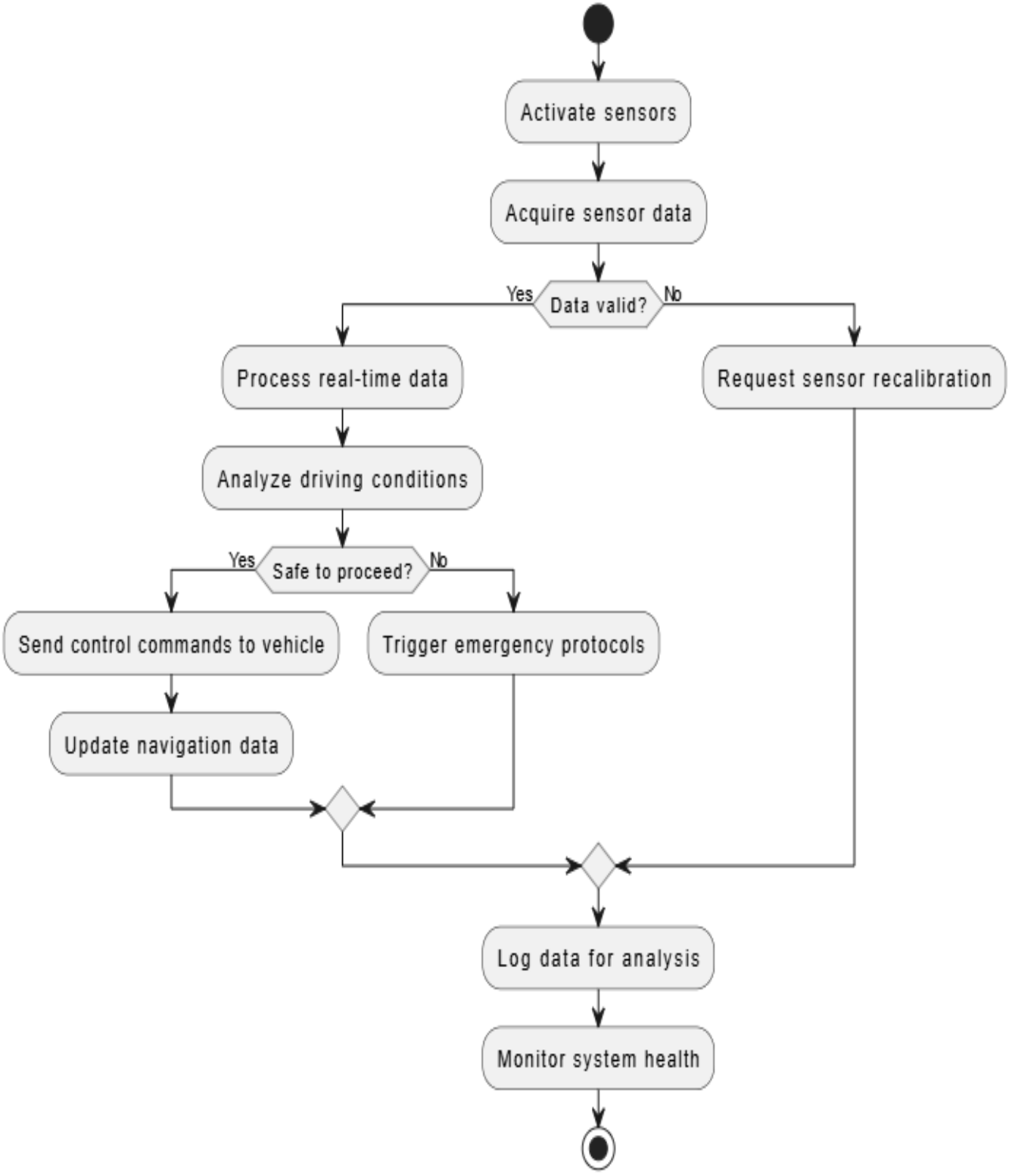
USE CASE:



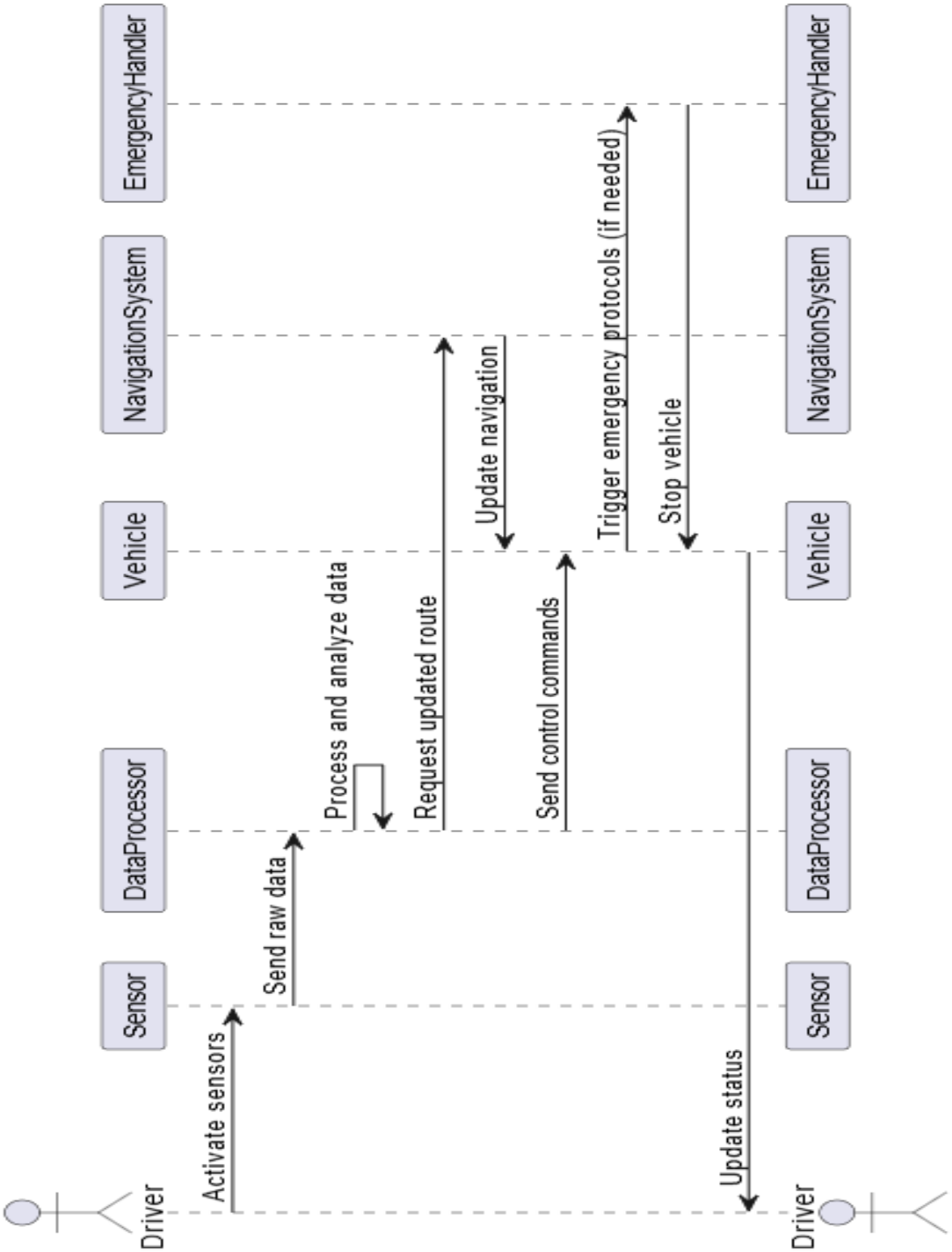
CLASS DIAGRAM:



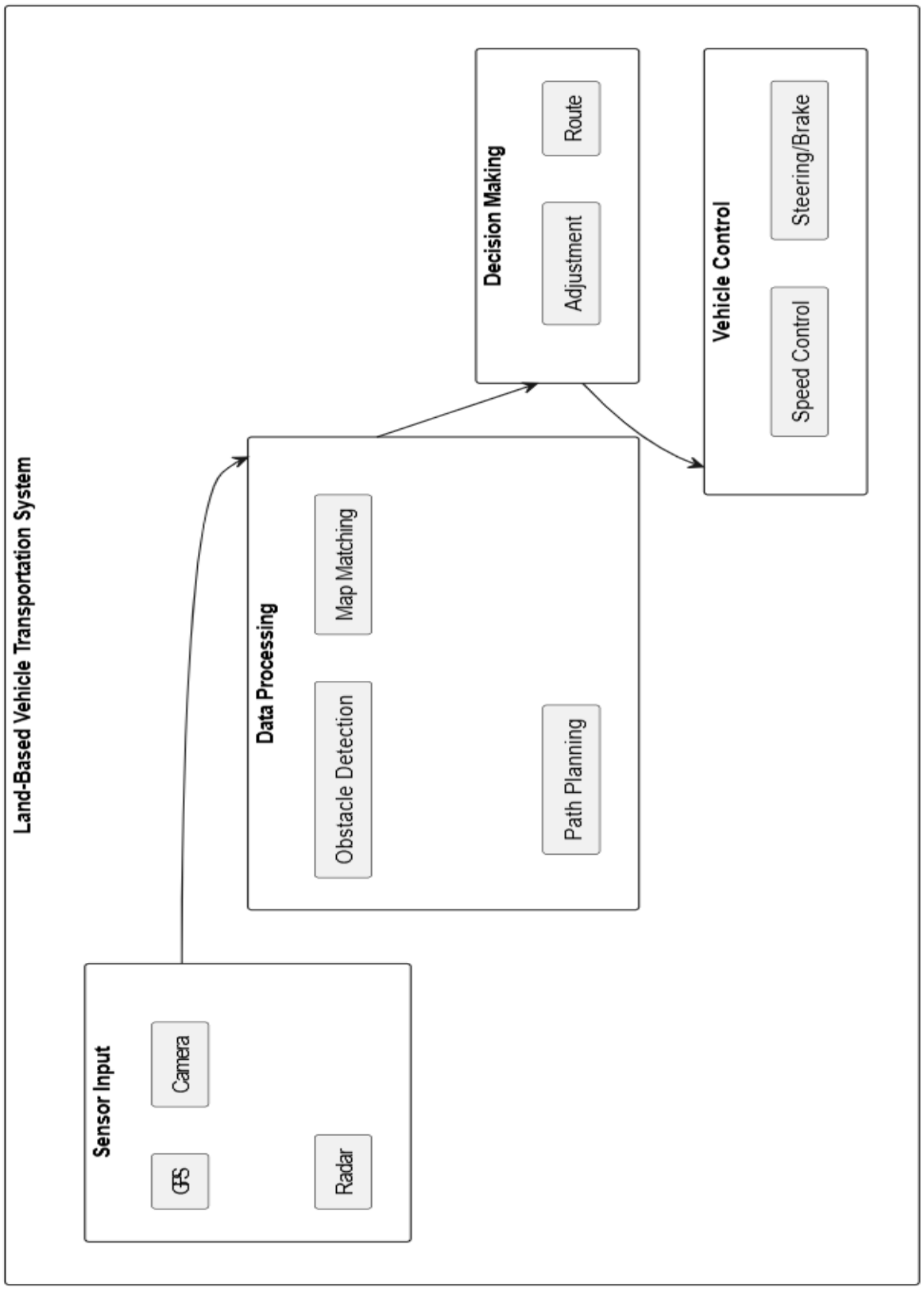
ACTIVITY DIAGRAM :



SEQUENCE DIAGRAM :



HIPO:


Land-Based Vehicle Transportation System
Sensor Input
GPS
Camera
Radar
Data Processing
Map Matching
Obstacle Detection
Path Planning
Decision Making
Route
Adjustment
Vehicle Control
Steering/Brake
Speed Control

IPO:

Land-Based Vehicle Transportation System
Acquire Sensor Data
Input: Sensor Readings
Process: Data Validation
Output: Validated Sensor Data
Process Data
Input: Validated Sensor Data
Process: Analyze Real-Time Data
Output: Processed Data/Alerts
Control Vehicle
Input: Processed Data, Navigation Updates
Process: Generate Control Commands
Output: Adjusted Vehicle State
Monitor System
Input: System State Data
Process: Perform Health Checks
Output: Health Reports/Logs