



FAST NUCES, Islamabad

# **SOFTWARE DESIGN & ANALYSIS**

**University Bus Management System**

**Deliverable #4**

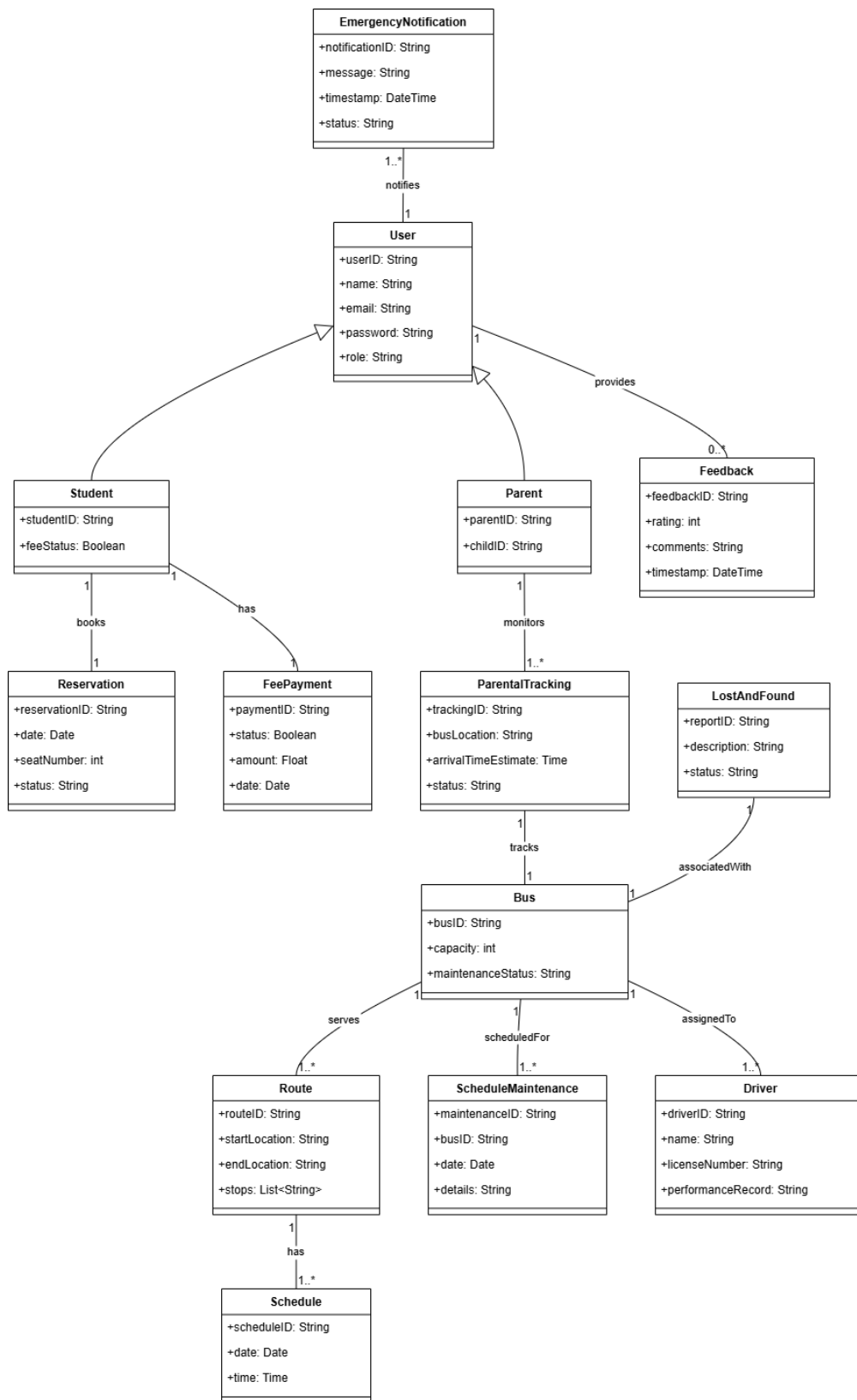
Group Members:

**Saad Abrar | i22-1238**

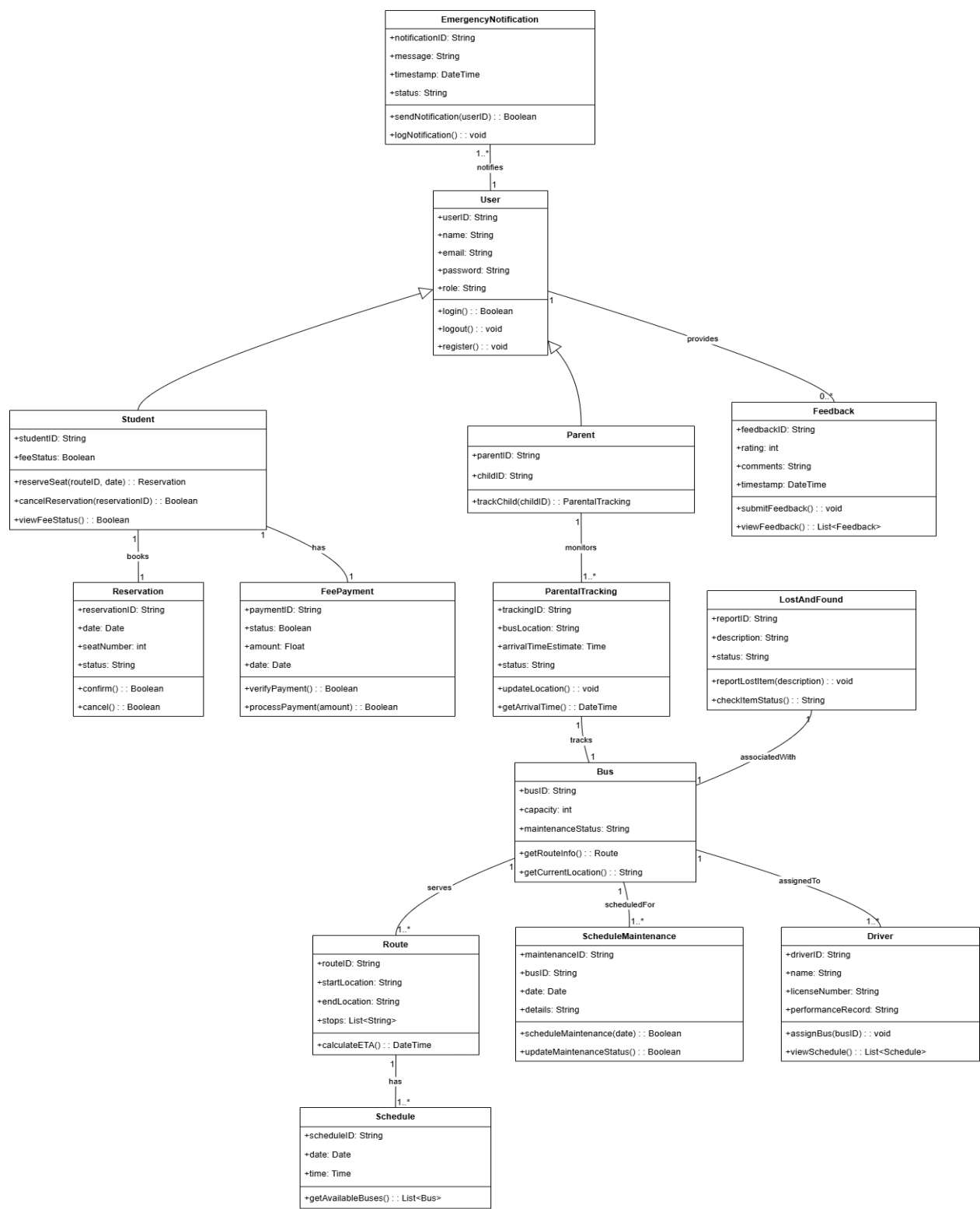
**Areeba Riaz | i22-1244**

Section: **BSCS-A**

# DOMAIN MODEL:

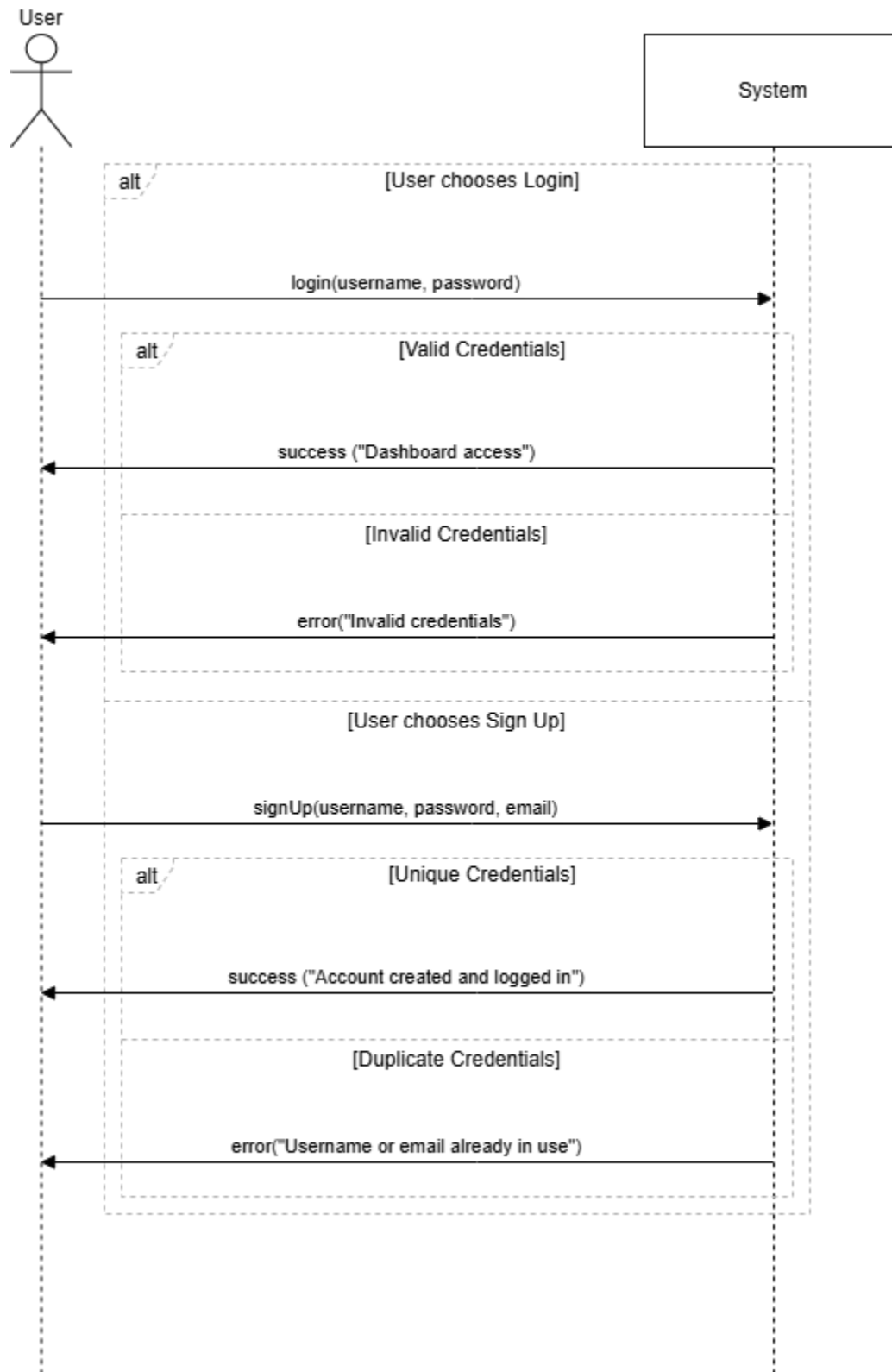


# CLASS DIAGRAM:

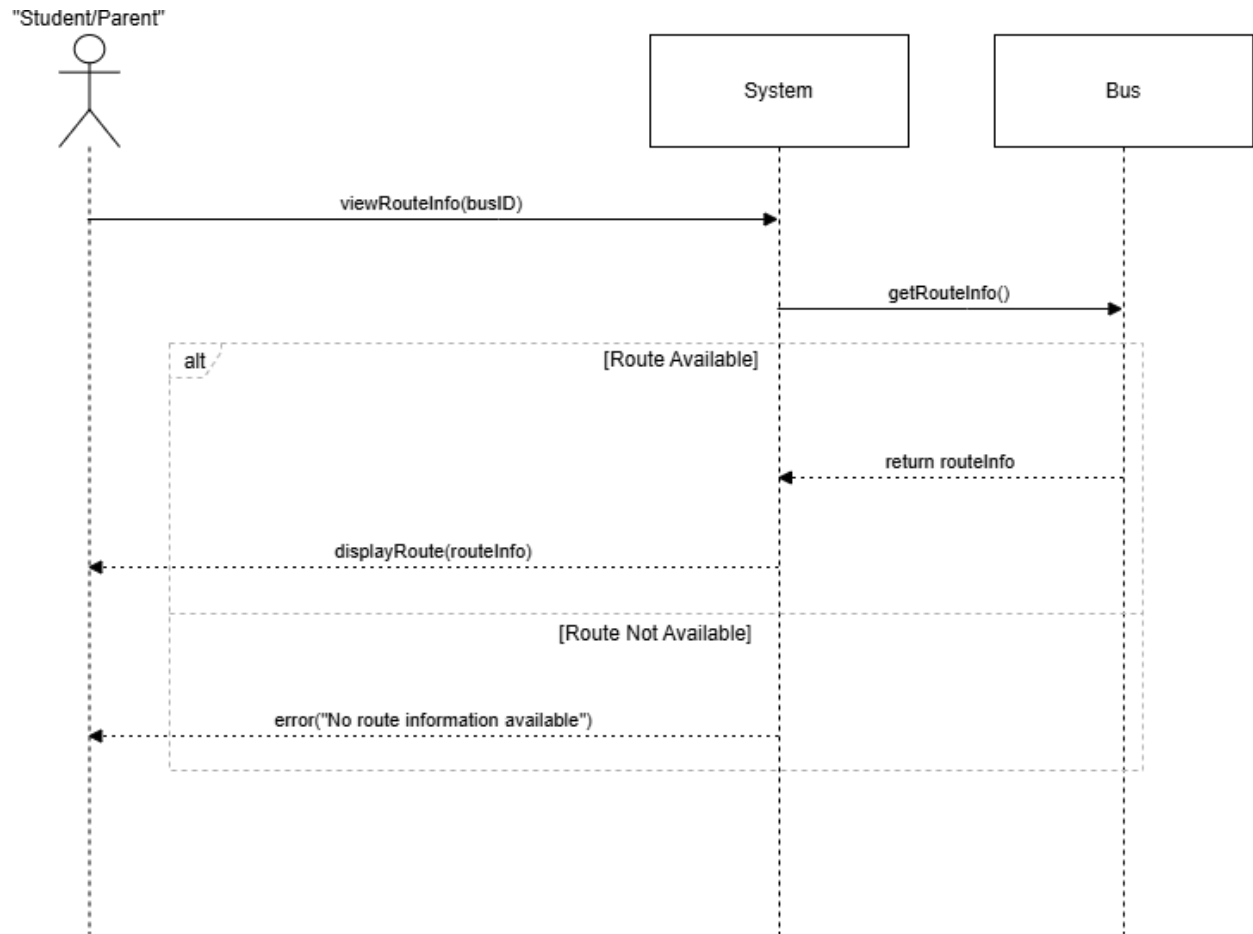


# SYSTEM SEQUENCE DIAGRAMS

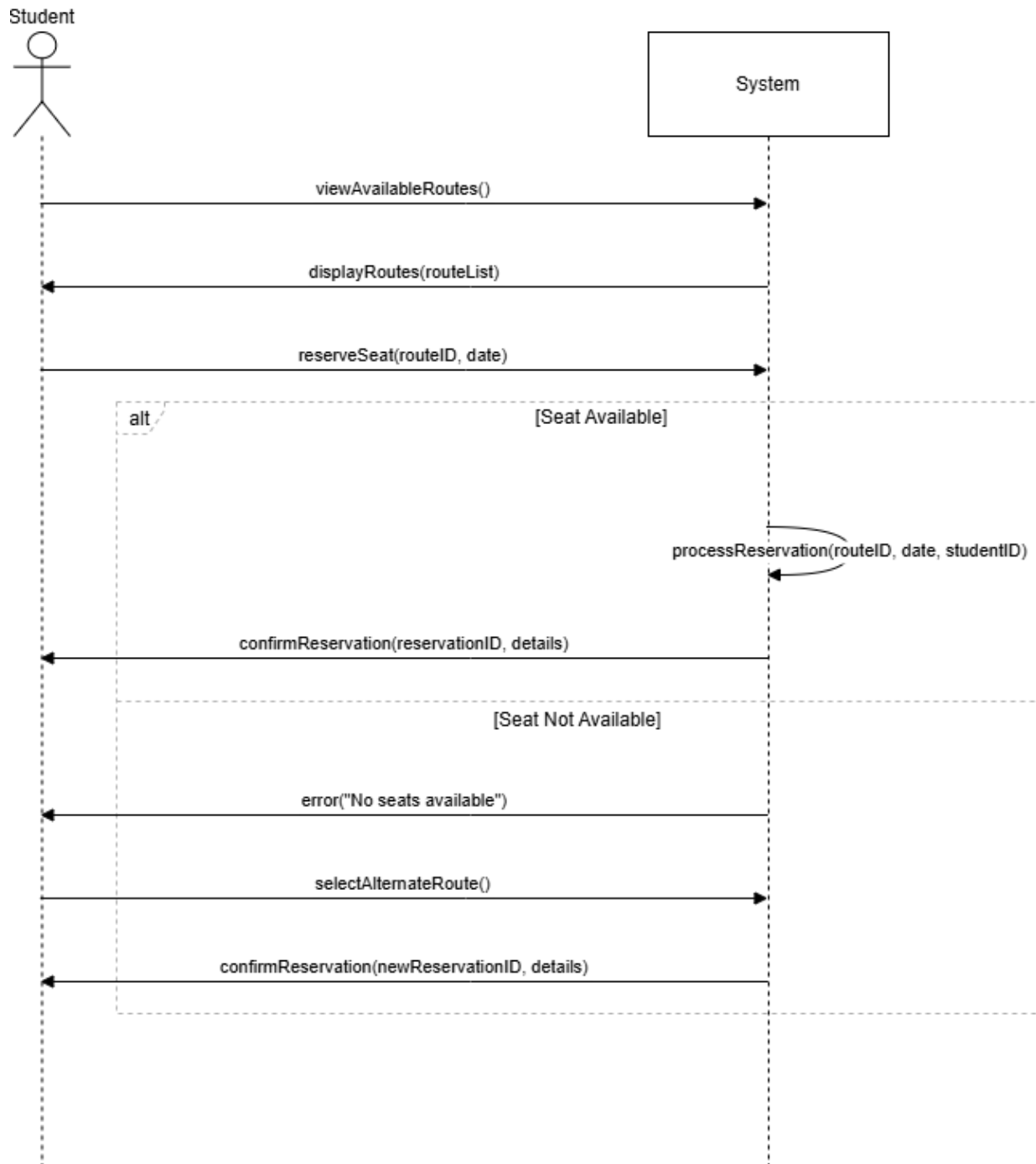
## 1. System Sequence Diagram for "User Login"



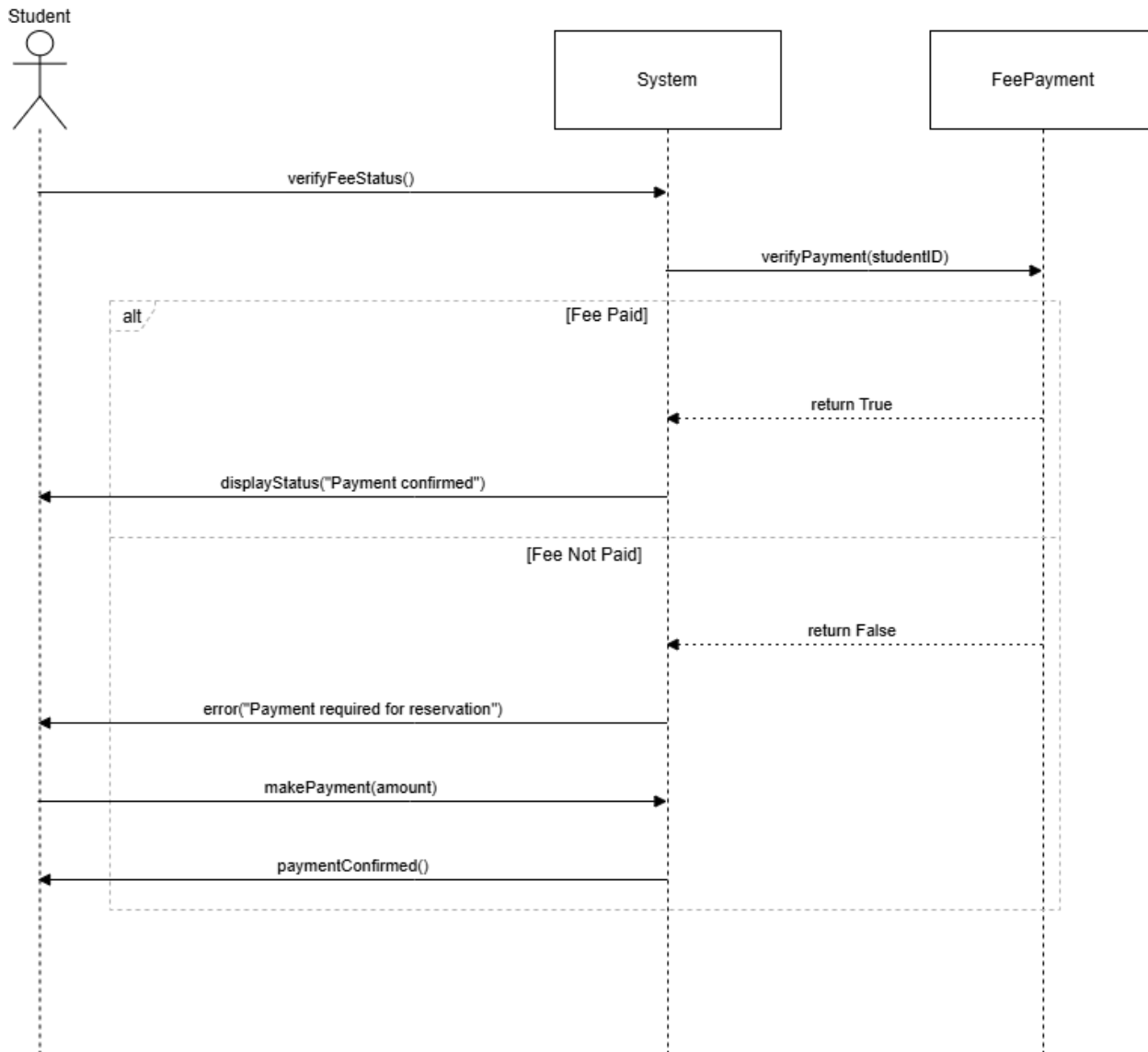
## 2. System Sequence Diagram for "View Bus Routes"



### 3. System Sequence Diagram for "Manage Reservation"

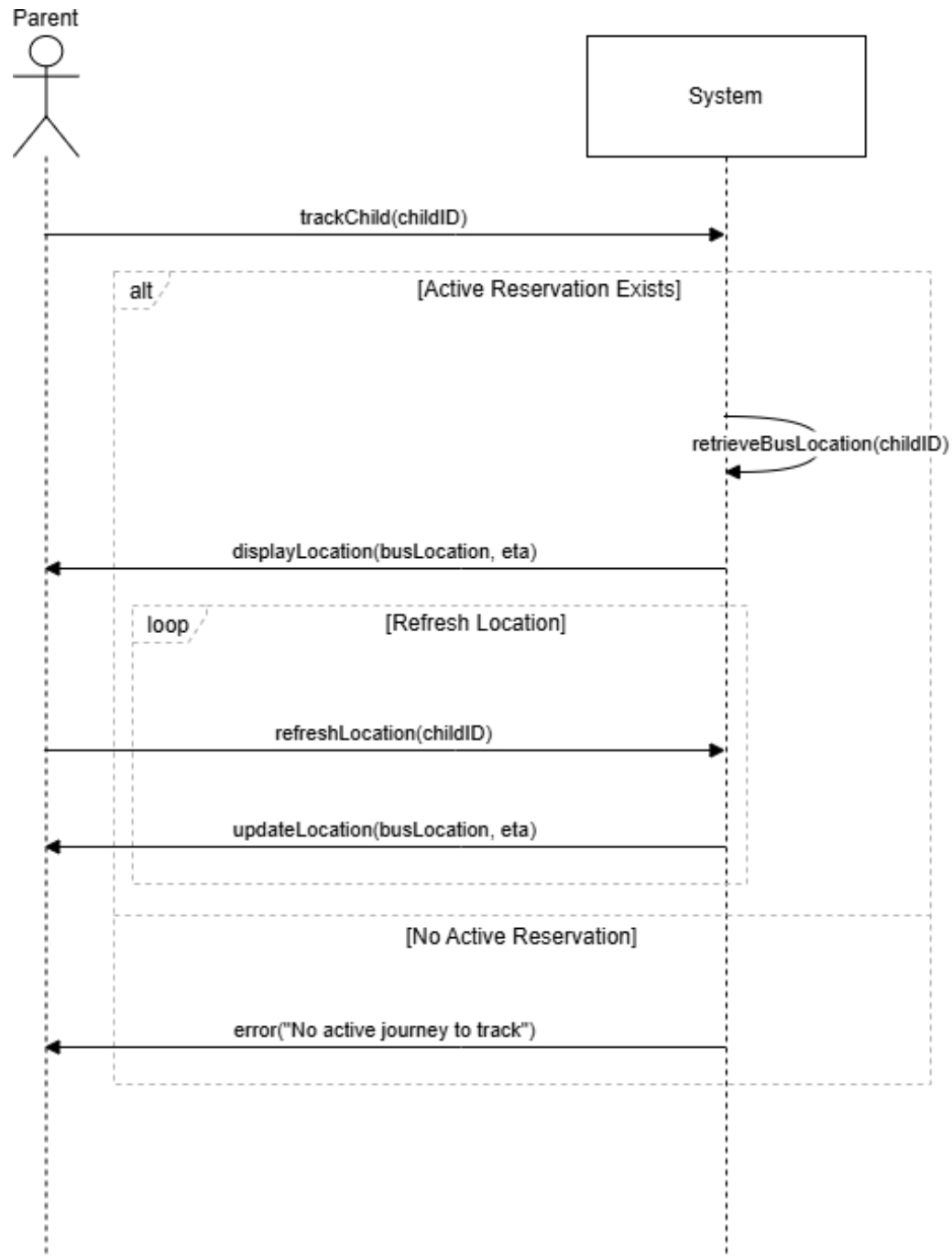


## 4. System Sequence Diagram for "Verify Fee Payment"

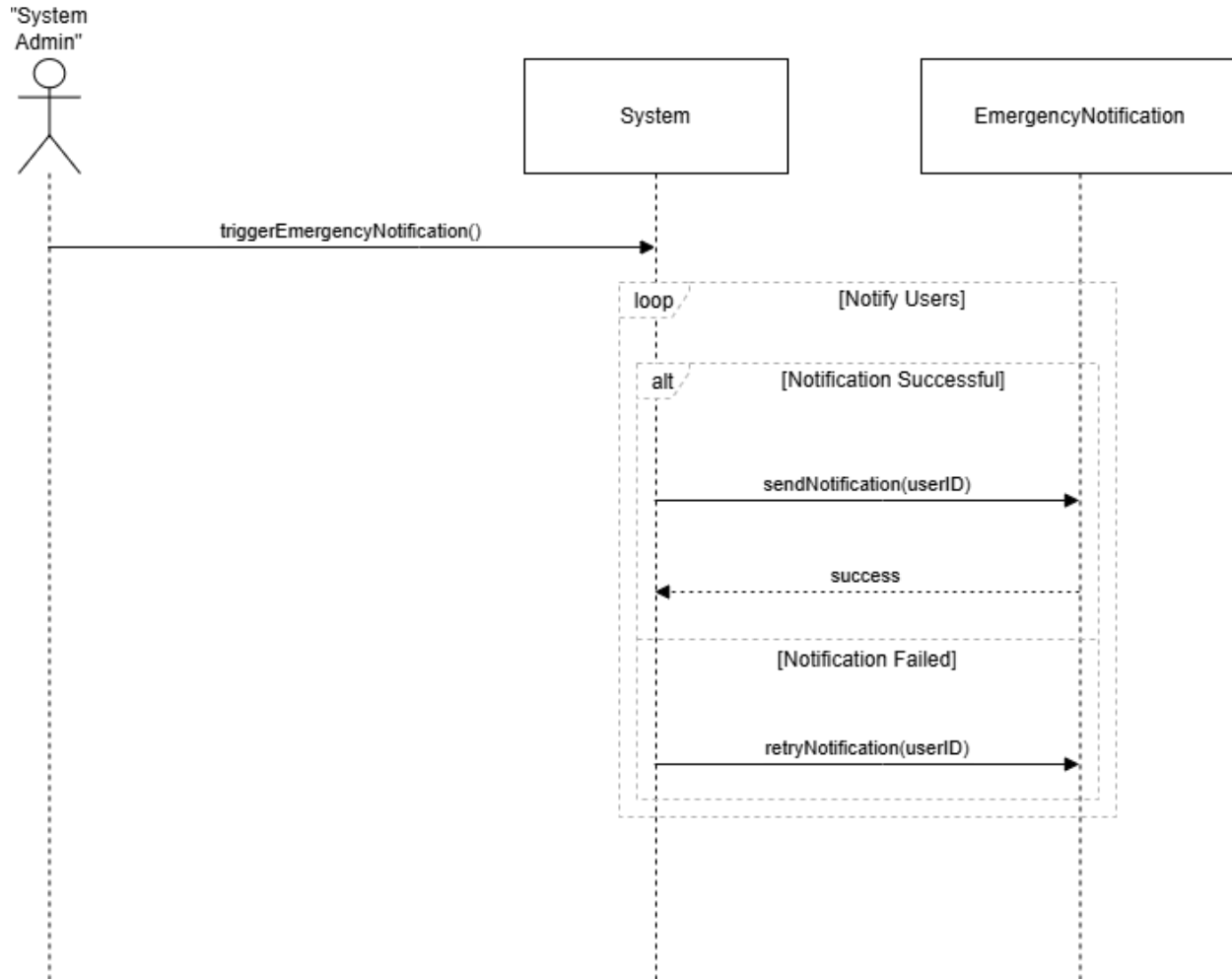




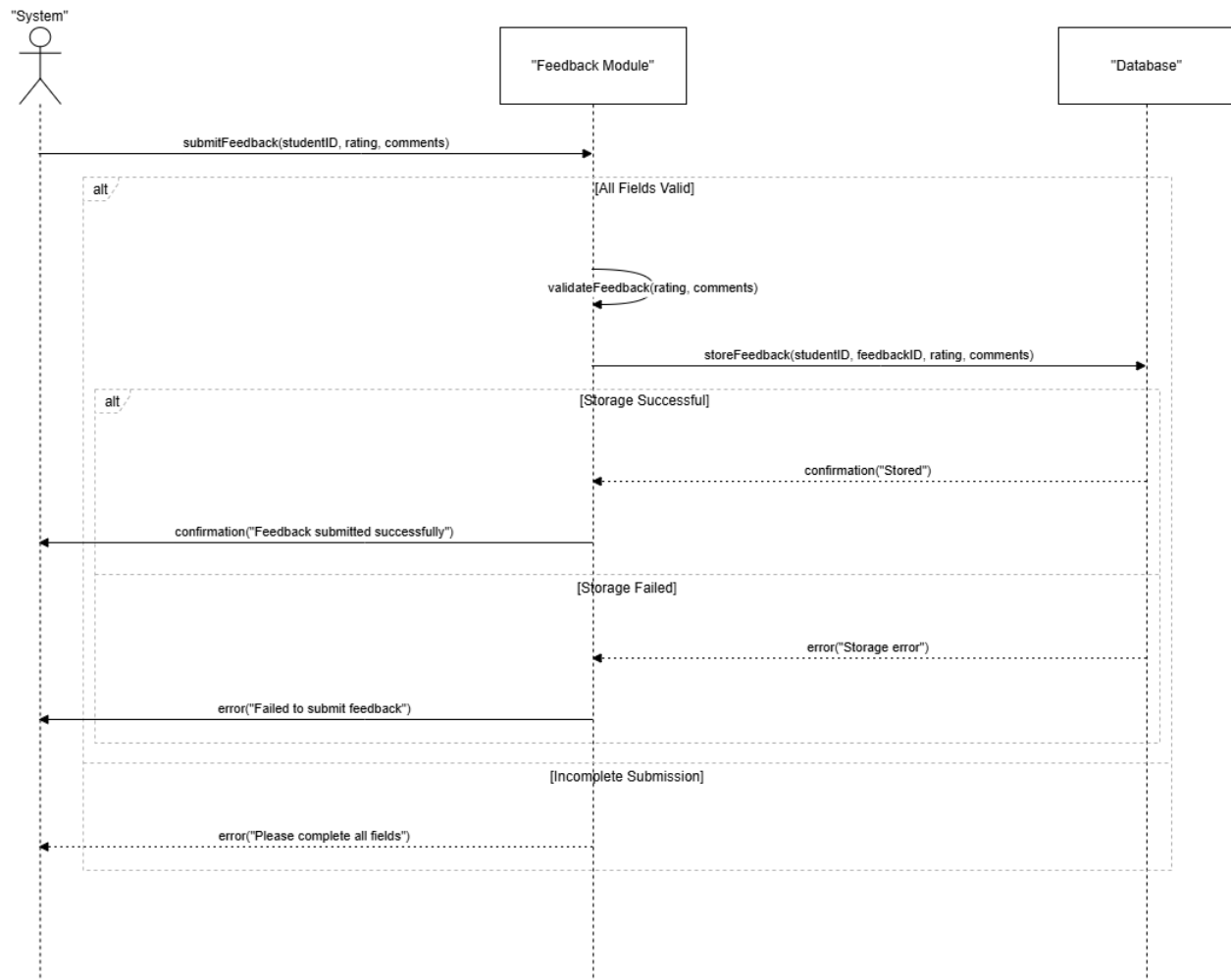
## 5. System Sequence Diagram for "Parental Control"



## 6. System Sequence Diagram for "Emergency Notifications"

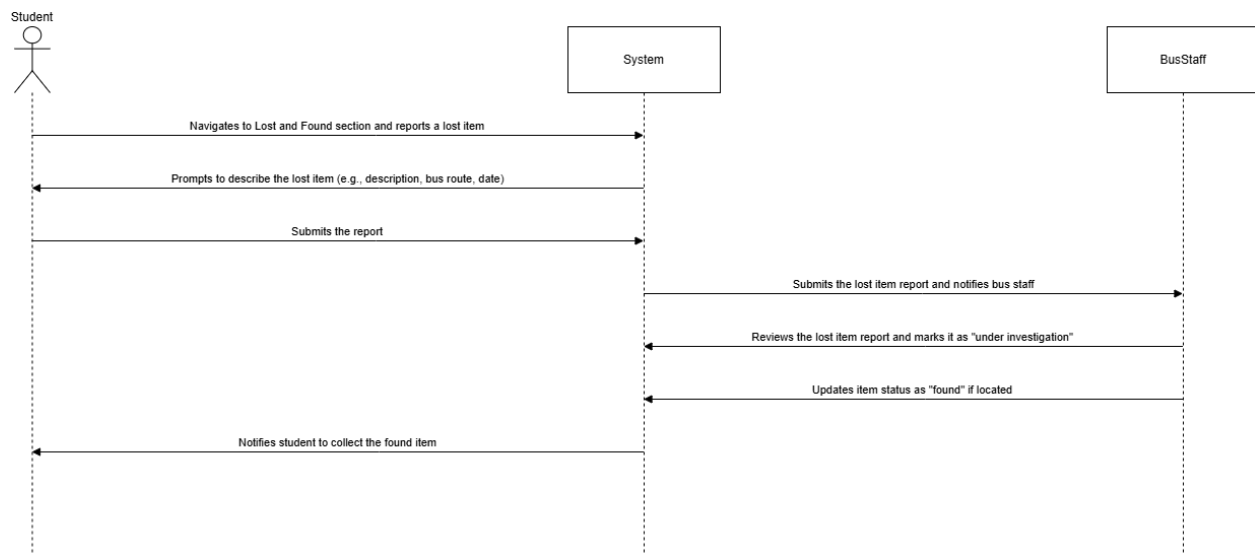


## 7. System Sequence Diagram for "Feedback and Rating System"

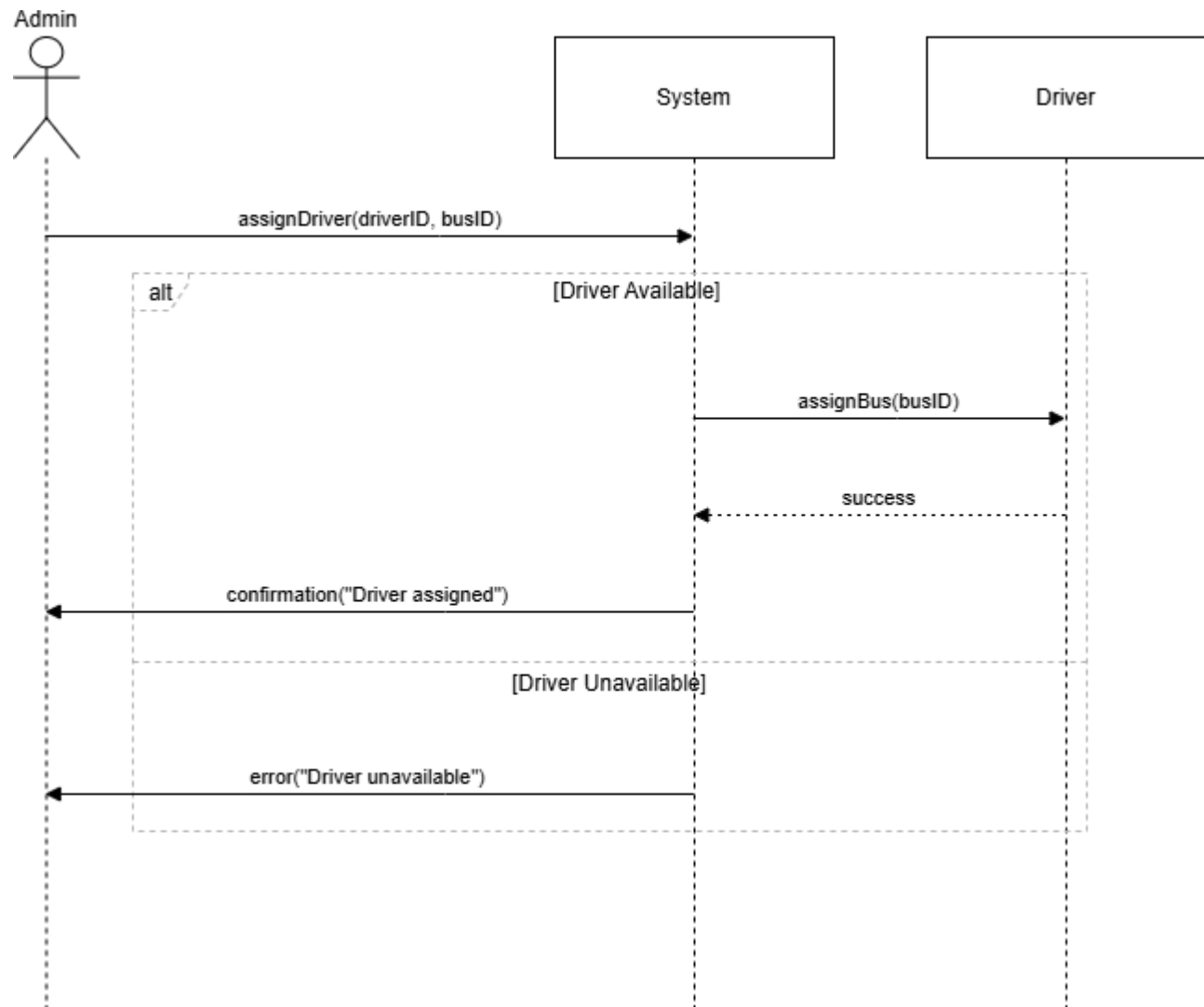


8.

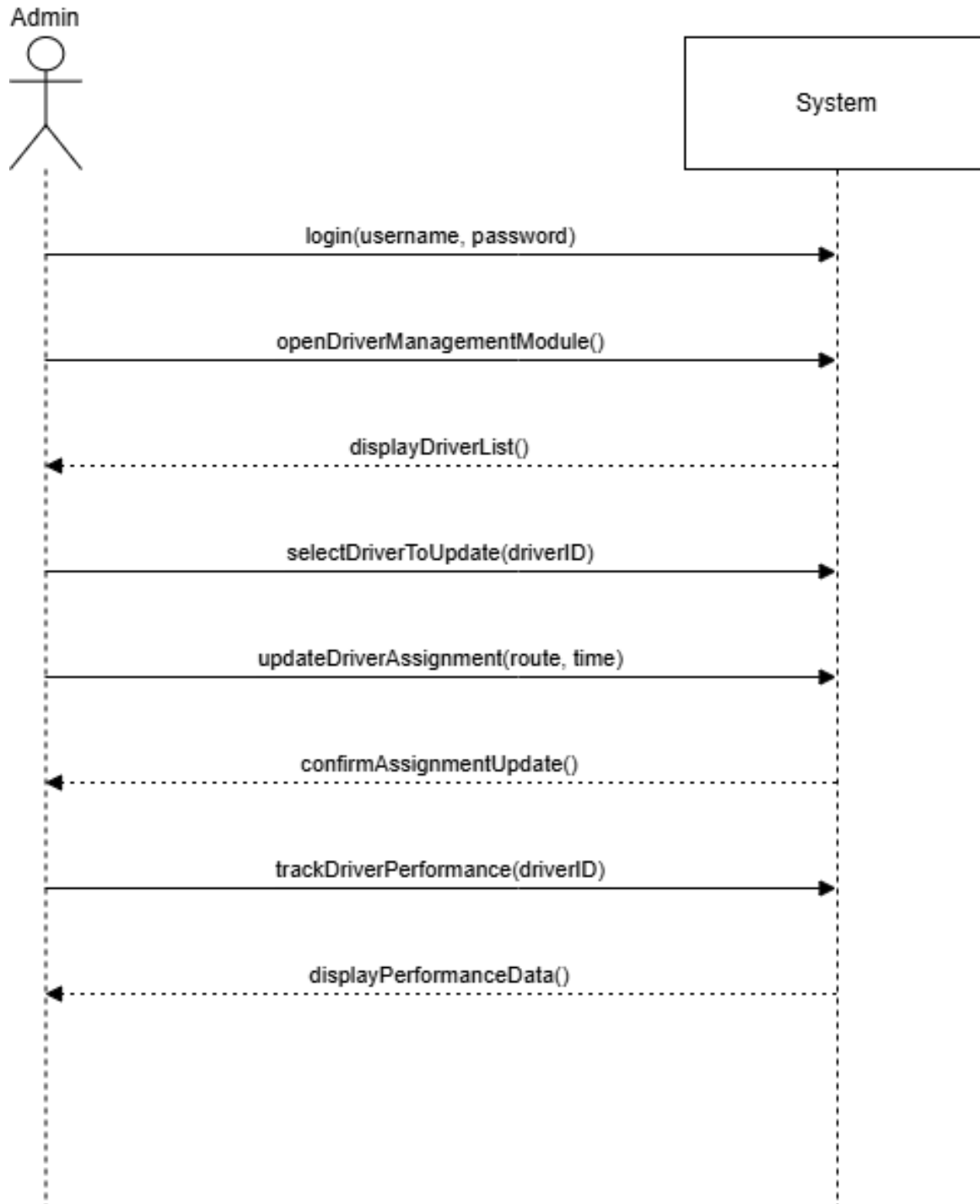
## System Sequence Diagram for "Lost and Found System"



## 9. System Sequence Diagram for "Schedule Maintenance"

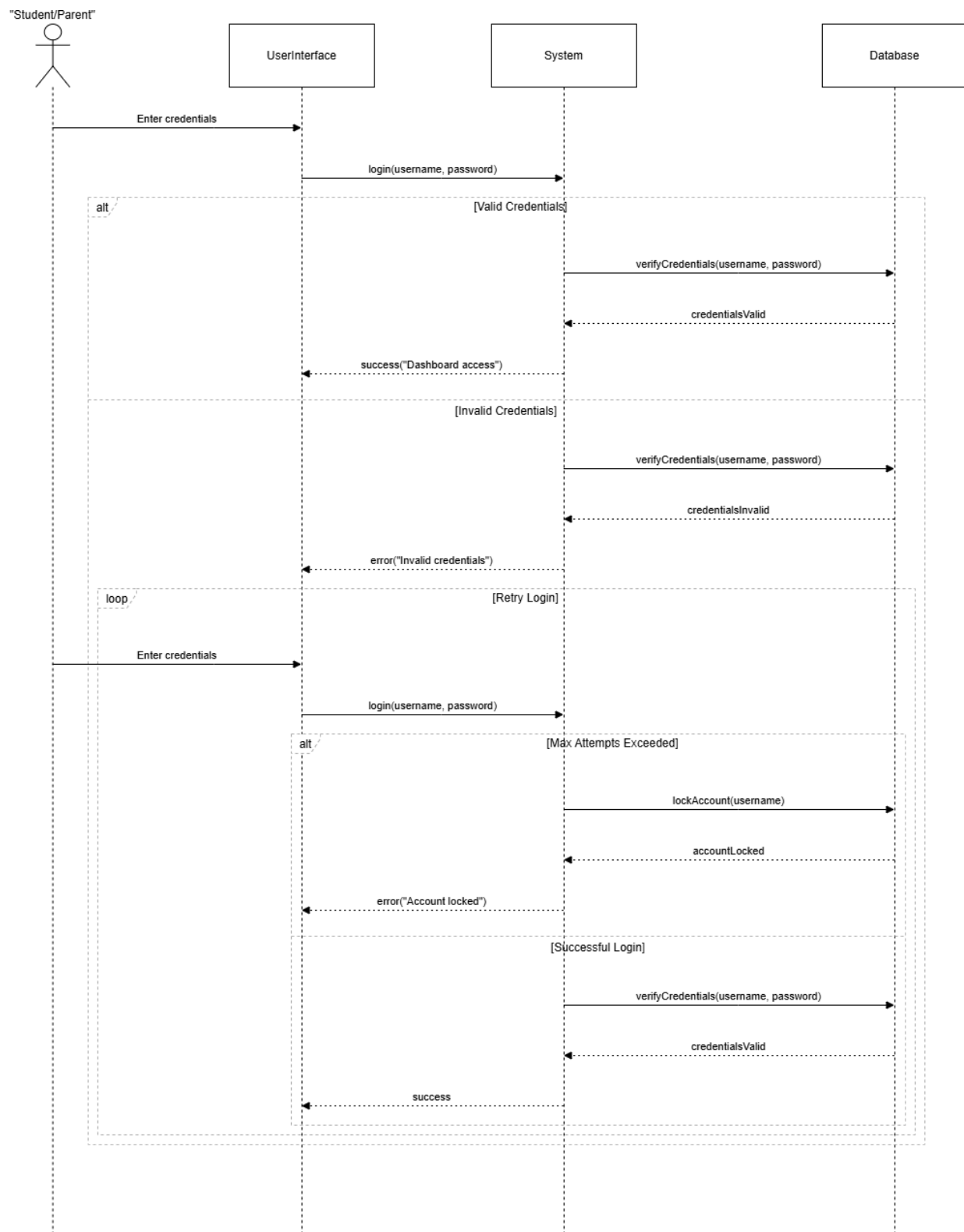


## 10. System Sequence Diagram for "Driver Management"

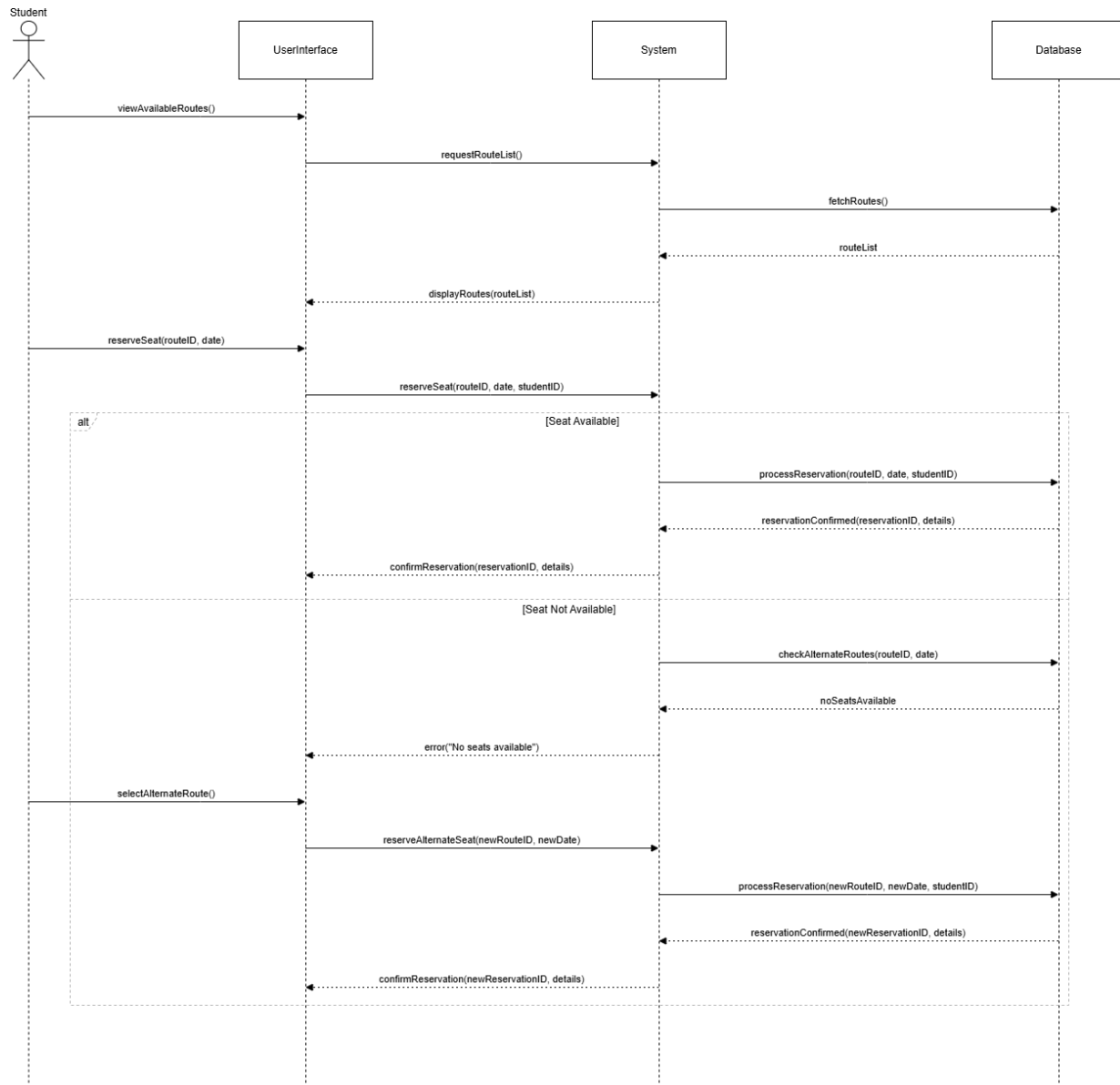


# **SEQUENCE DIAGRAMS**

# 1. Sequence Diagram for "User Login"

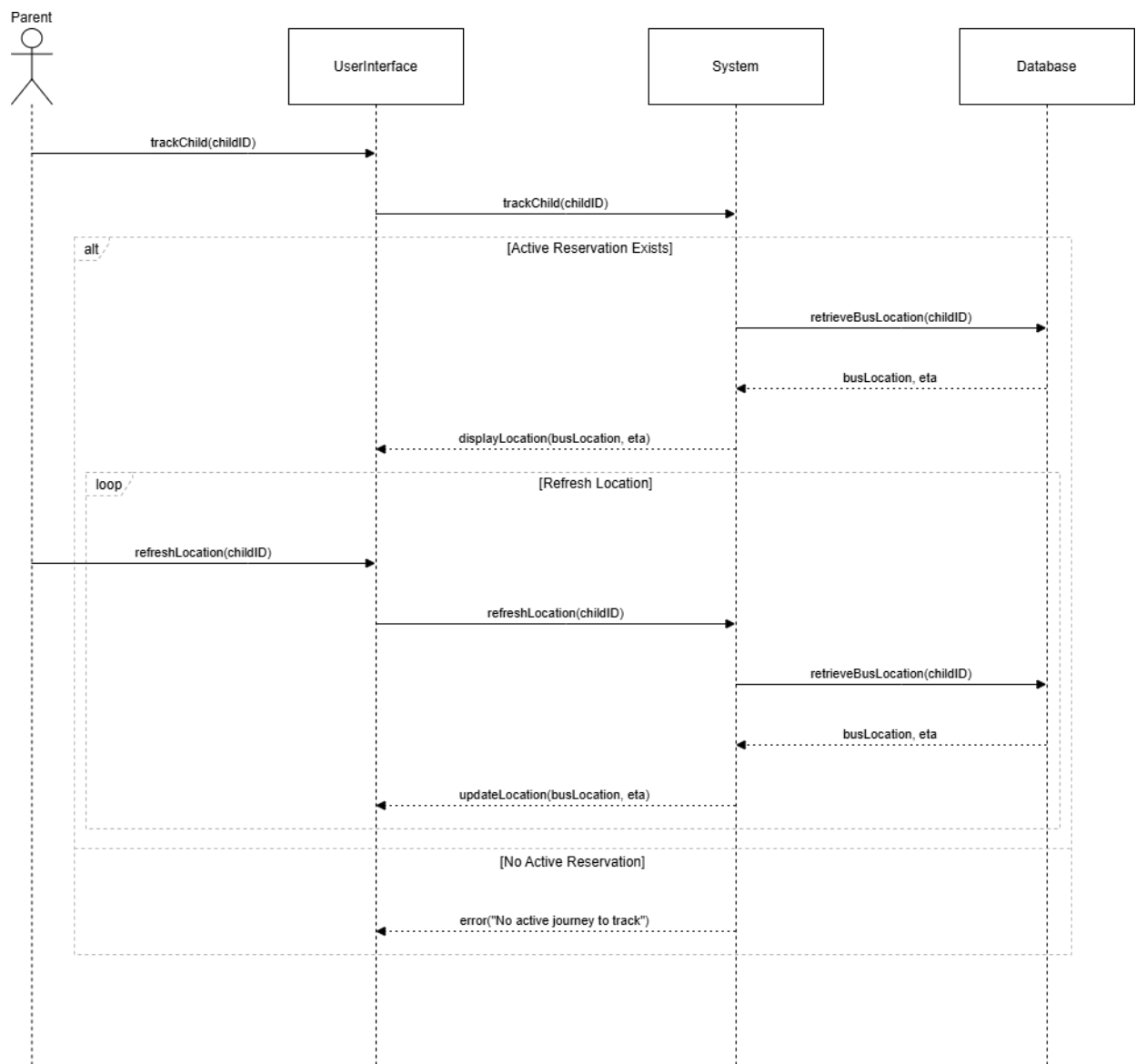


## 2.Sequence Diagram for "Reserve Seat"

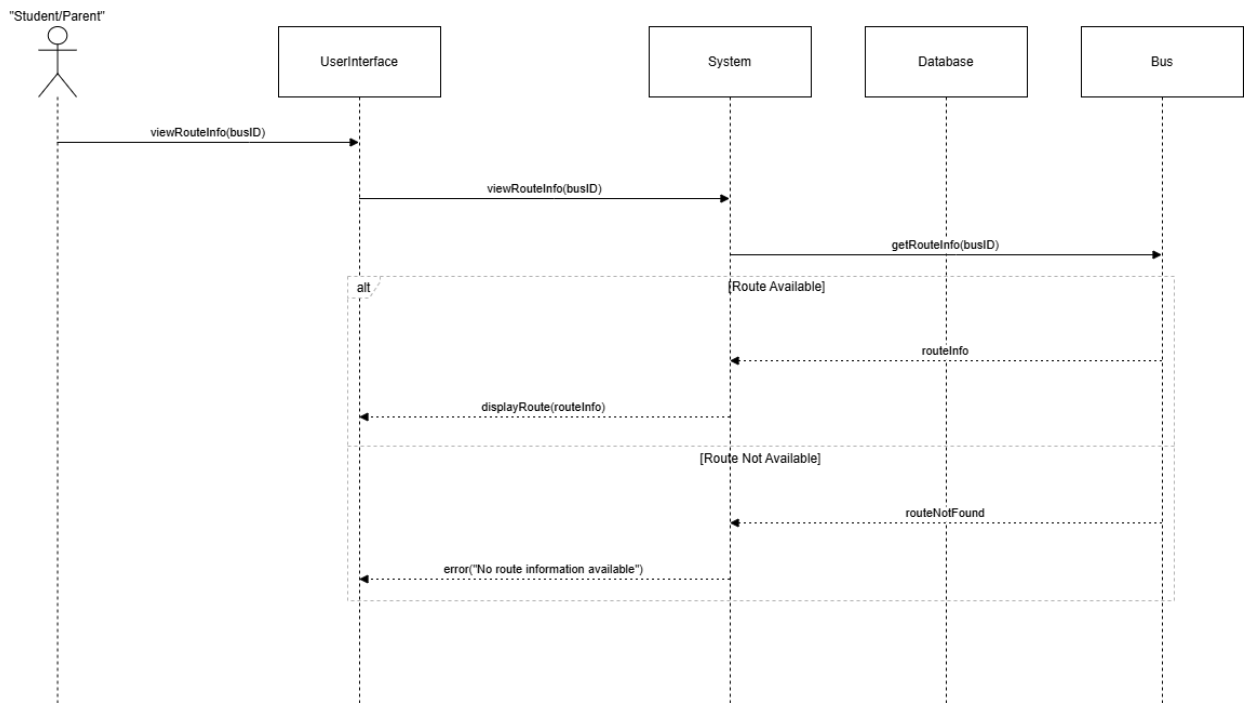




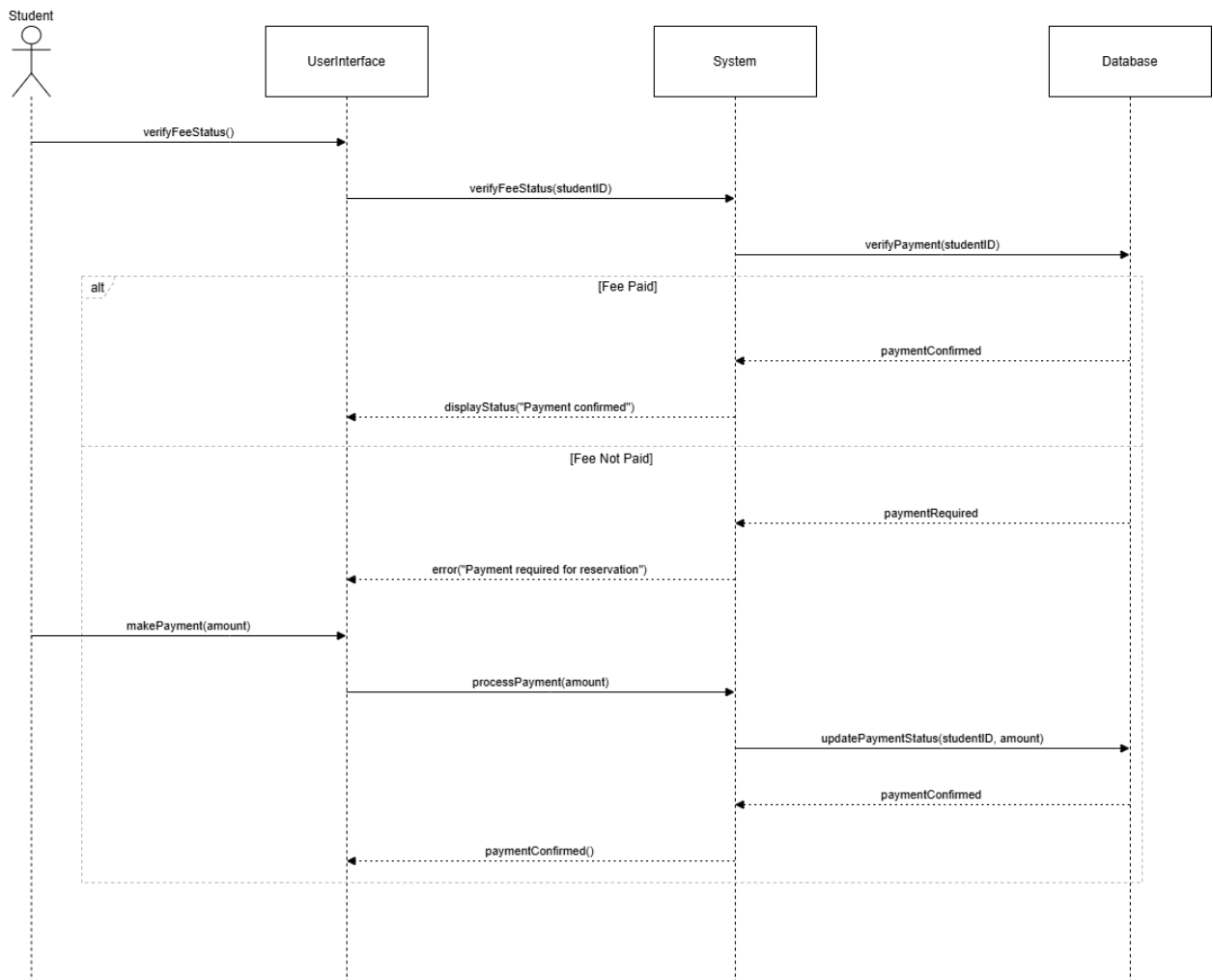
### 3. Sequence Diagram for "Track Child"



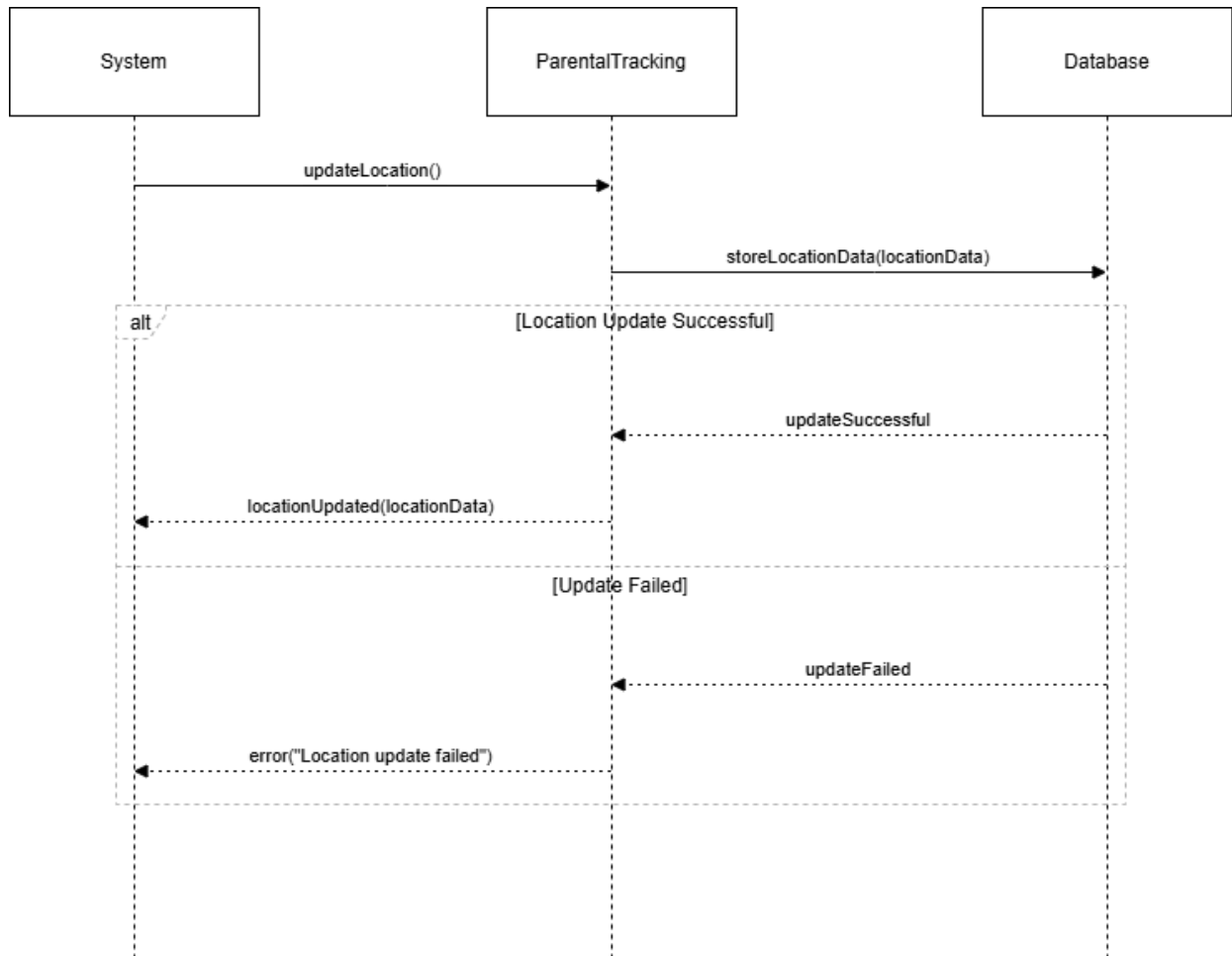
## 4. Sequence Diagram for "View Route Info"



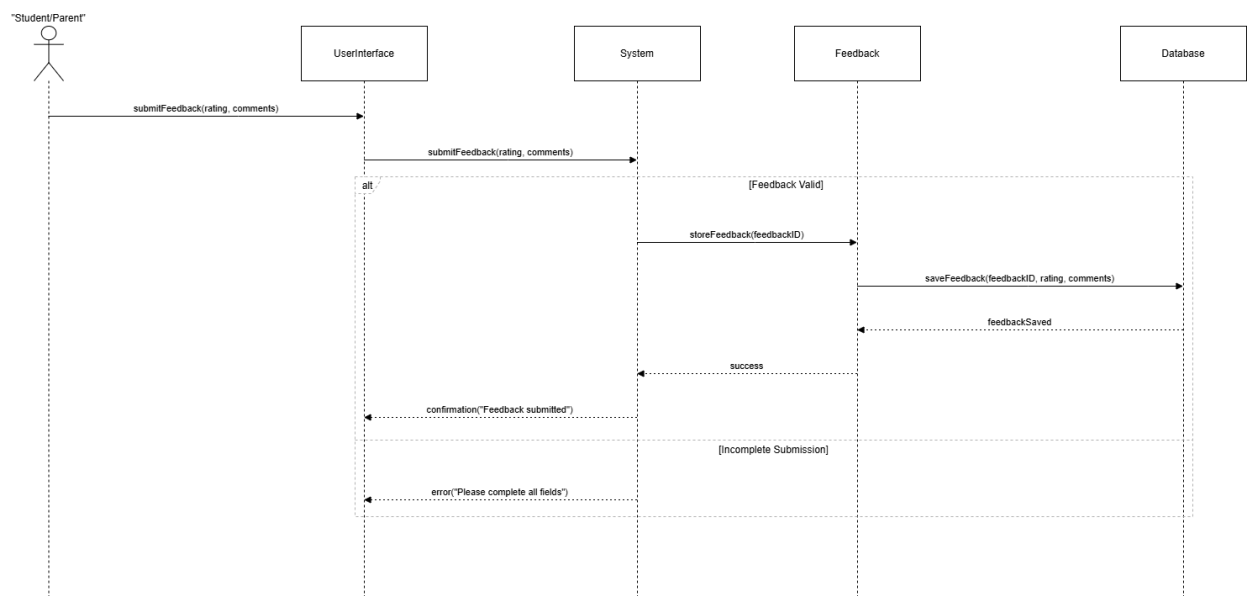
## 5. Sequence Diagram for "Verify Fee Payment"



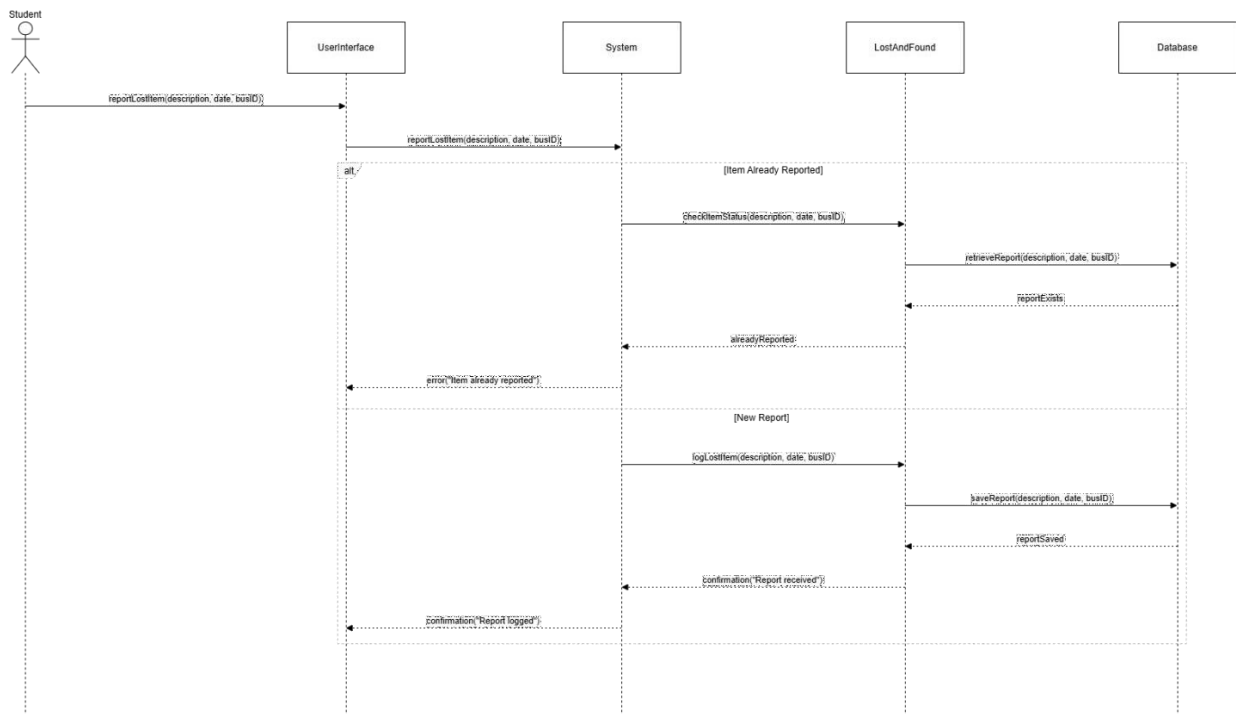
## 6. Sequence Diagram for "Update Location"



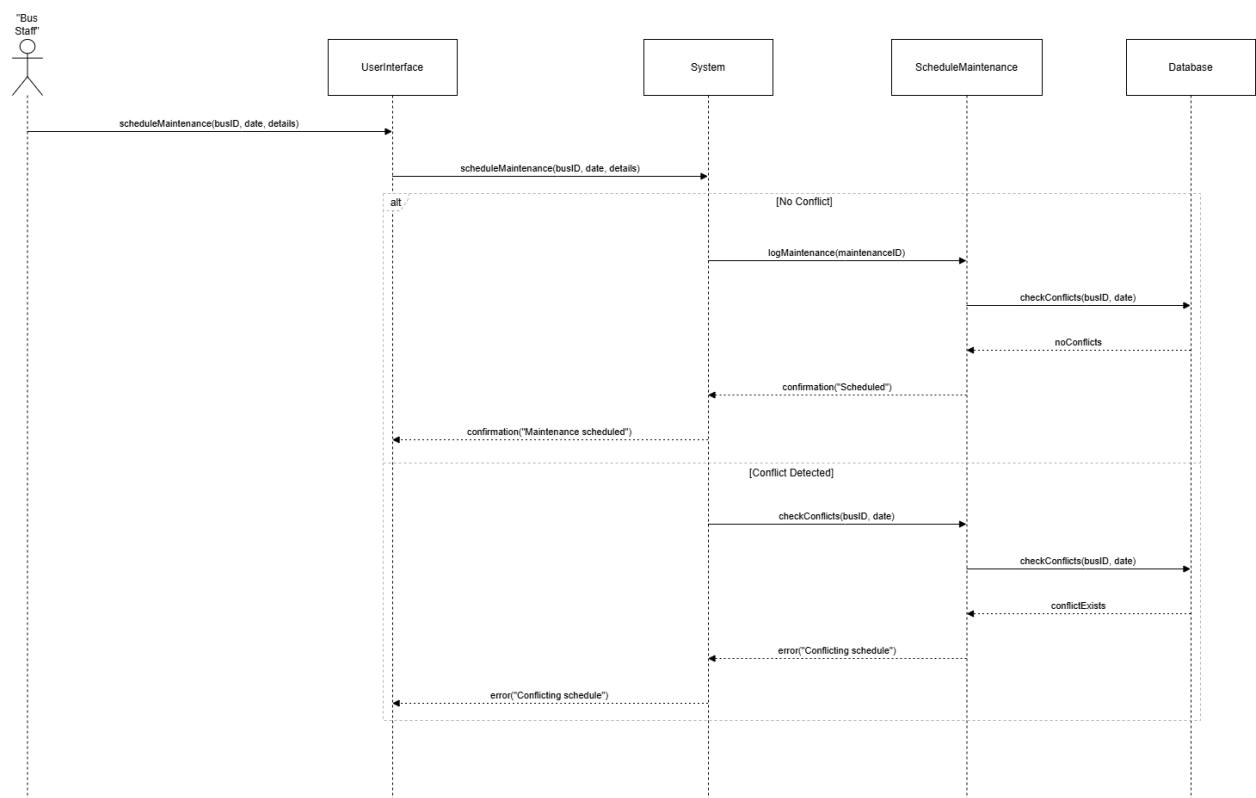
# 7. Sequence Diagram for "Submit Feedback"



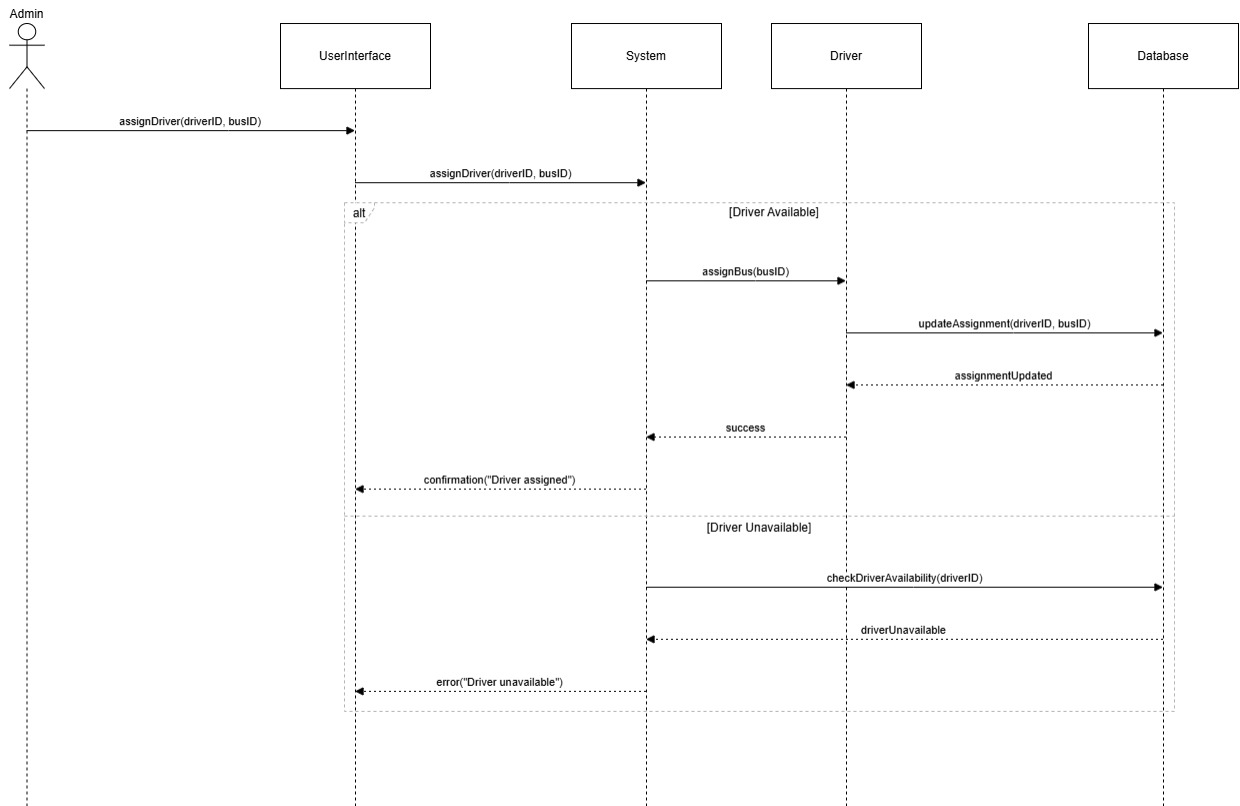
## 8. Sequence Diagram for "Report Lost Item"



# 9. Sequence Diagram for "Schedule Maintenance"



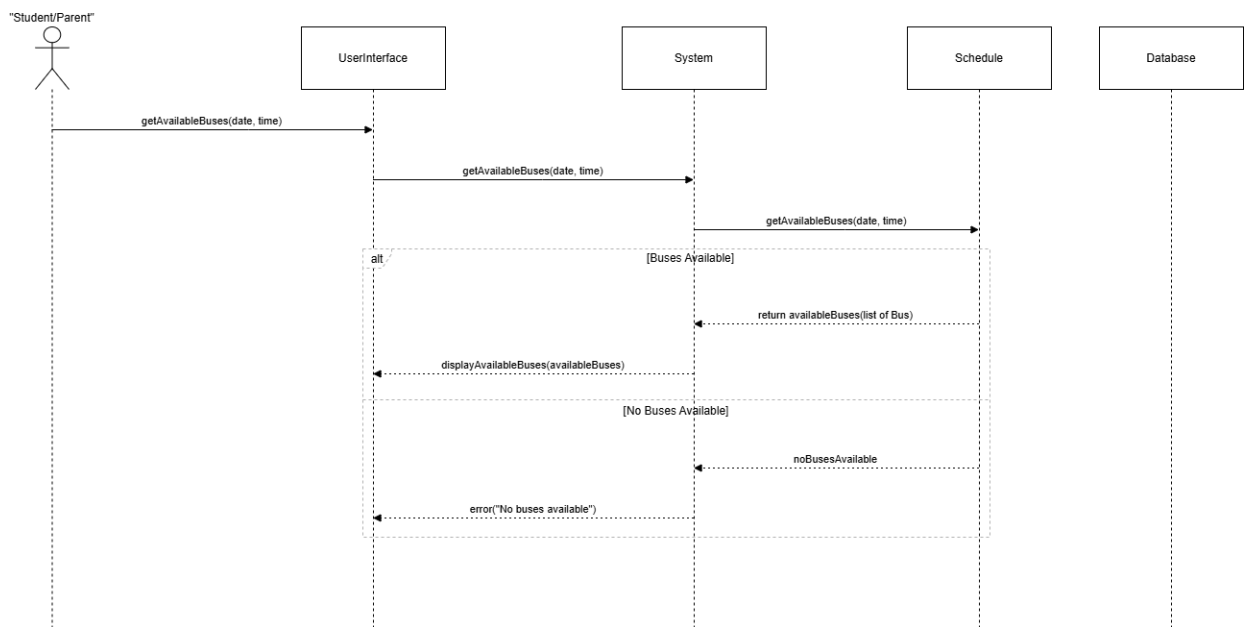
## 10. Sequence Diagram for "Assign Bus"



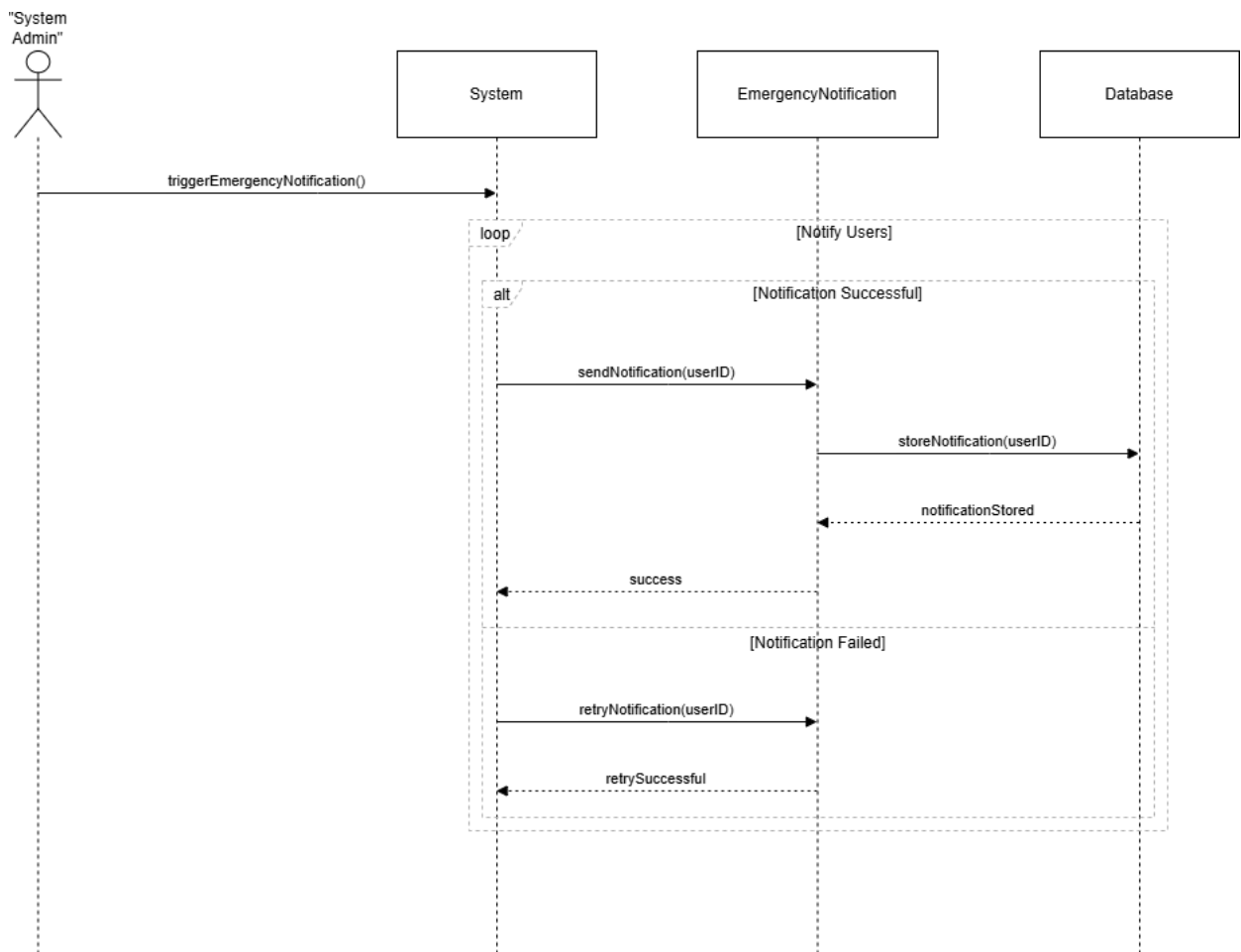




## 11. Sequence Diagram for "Get Available Buses"



## 12. Sequence Diagram for "Send Emergency Notification"



## 13. Sequence Diagram for "Update Maintenance Status"

