Database Lab
Project Report
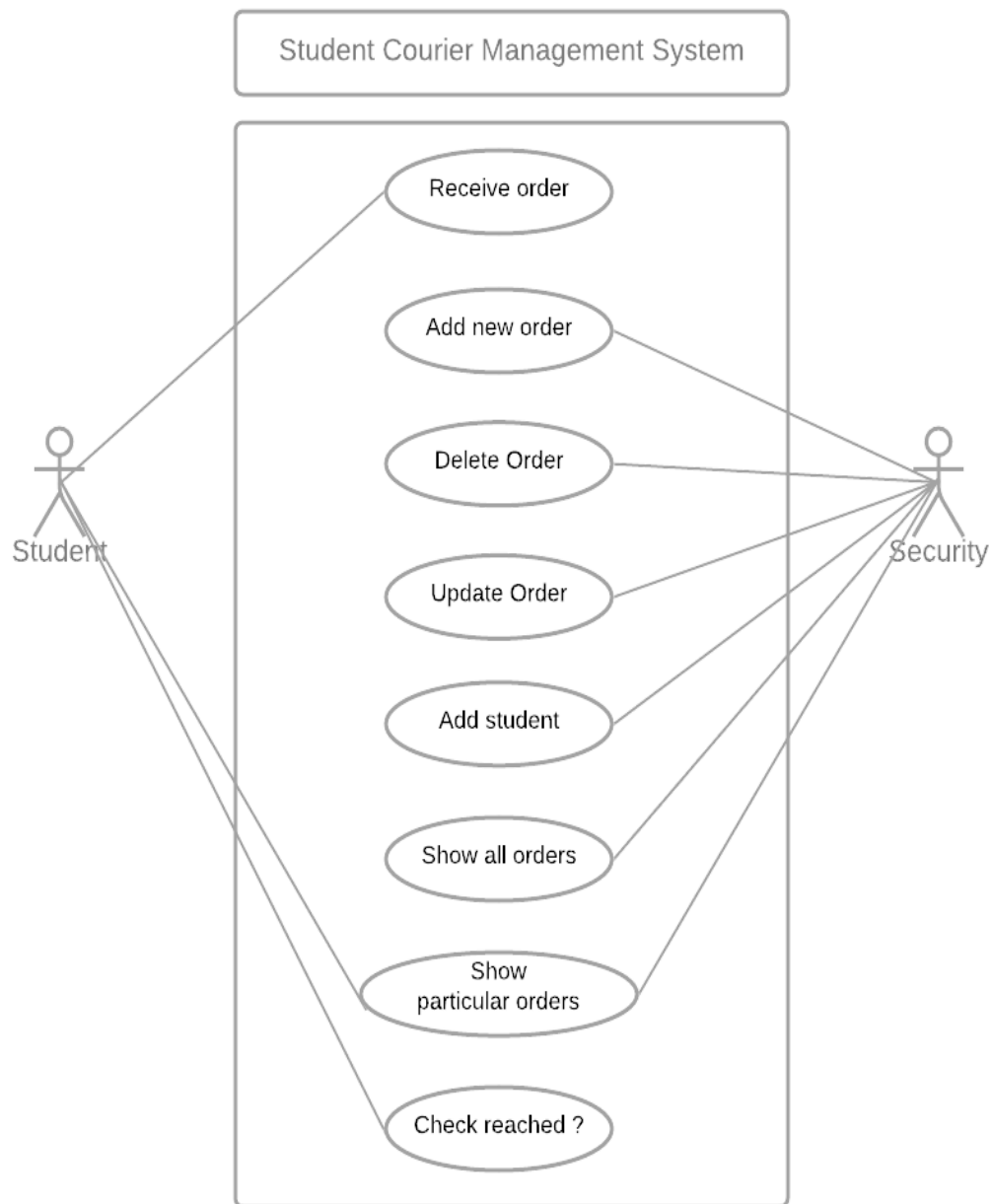
Introduction

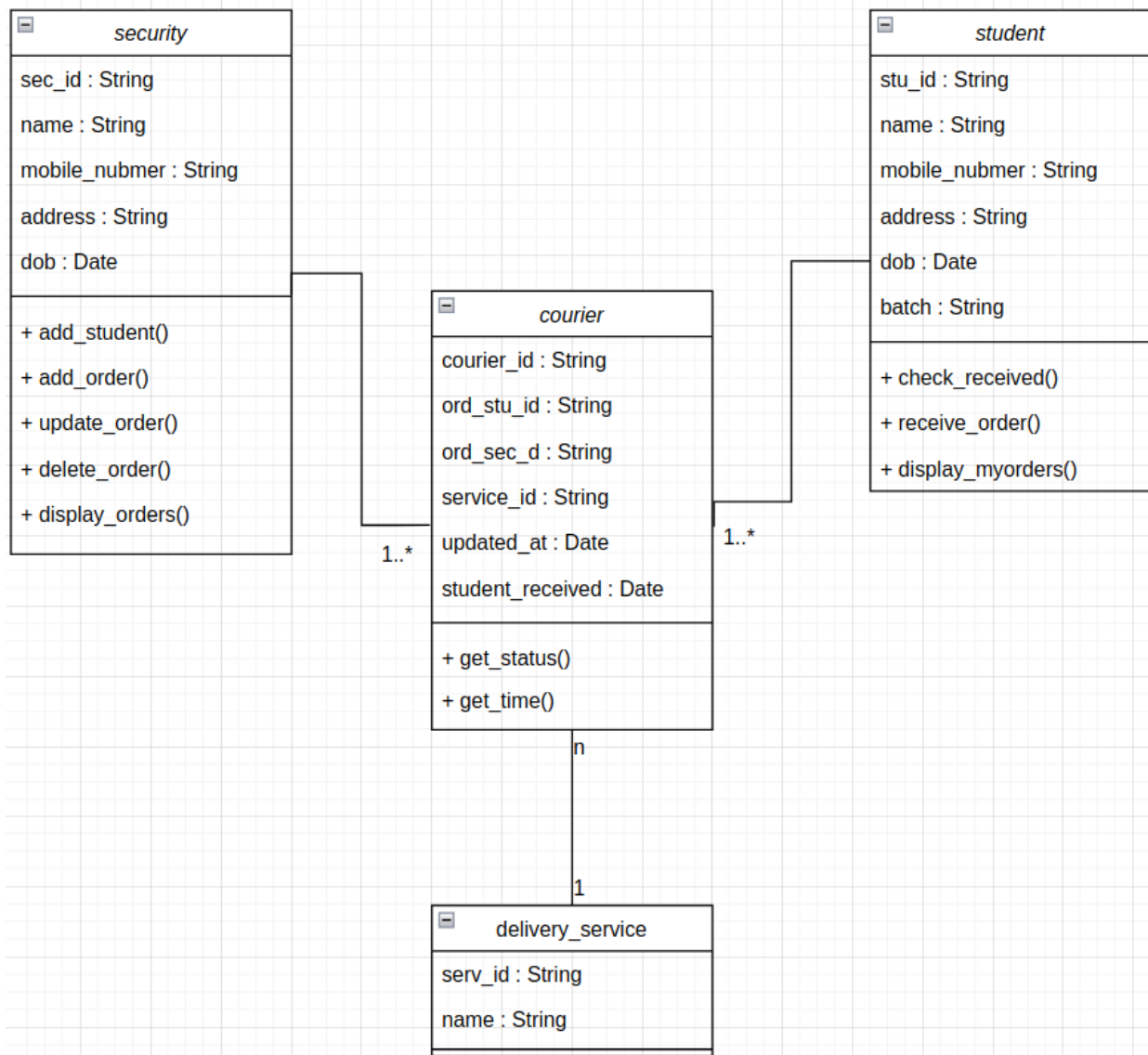This is a project report on database design of a courier management system.

Use Case Diagram

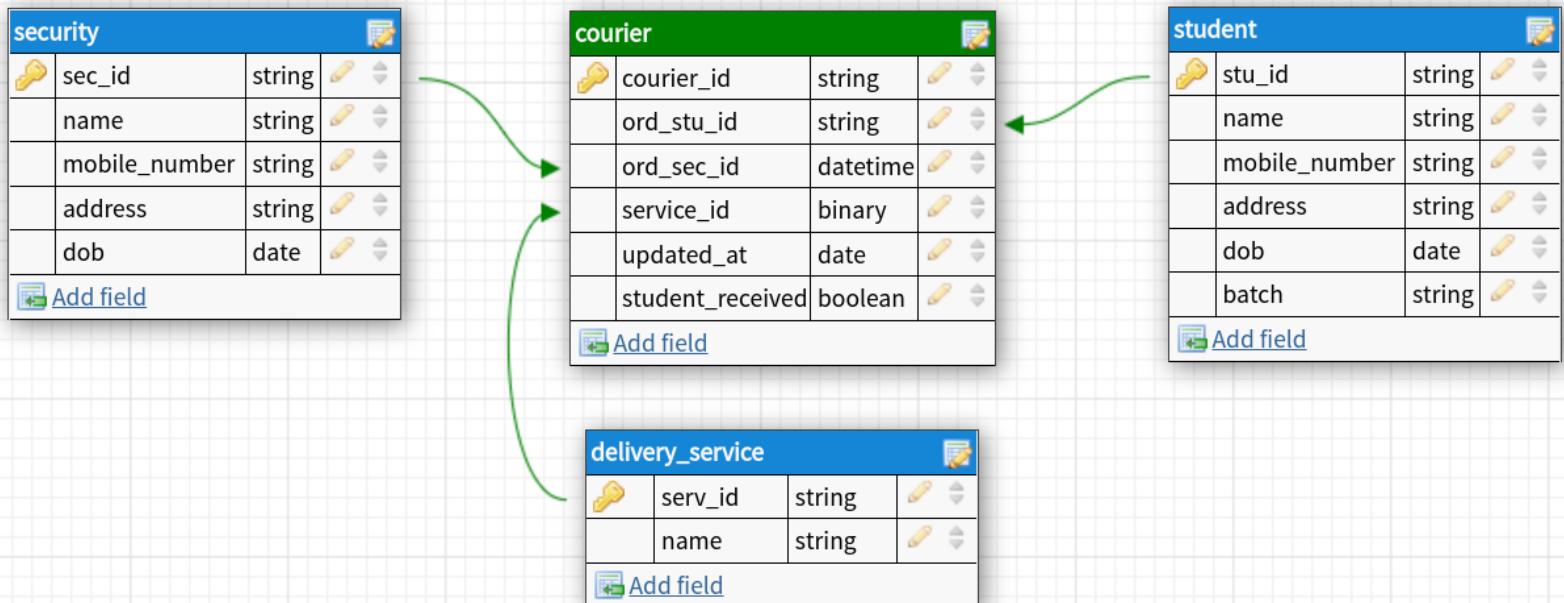# UML Class Diagram

security

sec_id : String

name : String

mobile_nubmer : String

address : String

dob : Date

+ add_student()

+ add_order()

+ update_order()

+ delete_order()

+ display_orders()

student

stu_id : String

name : String

mobile_nubmer : String

address : String

dob : Date

batch : String

+ check_received()

+ receive_order()

+ display_myorders()

courier

courier_id : String

ord_stu_id : String

ord_sec_d : String

service_id : String

updated_at : Date

student_received : Date

+ get_status()

+ get_time()

1..*

1..*

n

1

delivery_service

serv_id : String

name : String

OR Mapping (DB Design)

security

🔑 sec_id	string	
name	string	
mobile_number	string	
address	string	
dob	date	

Add field

courier

🔑 courier_id	string	
ord_stu_id	string	
ord_sec_id	datetime	
service_id	binary	
updated_at	date	
student_received	boolean	

Add field

student

🔑 stu_id	string	
name	string	
mobile_number	string	
address	string	
dob	date	
batch	string	

Add field

delivery_service

🔑 serv_id	string	
name	string	

Add field

Output Screenshots

Insert Record:

```
--------------------Courier Management System--------------------
1. Add a new courier
2. Display all orders of a particular student
3. Display all orders registered by particular security gaurd
4. Mark a courier as recieved
5. Update a student id of a courier by courier ID
6. Delete a courier
7. Show all couriers
8. Add a new student
9. Add a new security
10. Add a new delivery service
11. Quit
9
Enter the secuirty ID:
S0005
Enter the secuirty name:
Farhan
Enter the mobile number:
9856321147
Enter the address:
Brighton, UK, 789
Enter the dob:
1994-10-10
Inserted new record succefully
Press any key to go back
```

Display Record:

```
1. Add a new courier
2. Display all orders of a particular student
3. Display all orders registered by particular security gaurd
4. Mark a courier as recieved
5. Update a student id of a courier by courier ID
6. Delete a courier
7. Show all couriers
8. Add a new student
9. Add a new security
10. Add a new delivery service
11. Quit
2
Enter the roll number of the student:
IMT2019025
-------------------------
courier_id: OD002
ord_stu_id: IMT2019025
ord_sec_id: S0002
updated_at: 2021-12-05
student_received: 0
-------------------------
-------------------------
courier_id: OD005
ord_stu_id: IMT2019025
ord_sec_id: S0002
updated_at: 2021-12-08
student_received: 0
-------------------------
Press any key to go back
```

Delete Record:

```
1. Add a new courier
2. Display all orders of a particular student
3. Display all orders registered by particular security gaurd
4. Mark a courier as recieved
5. Update a student id of a courier by courier ID
6. Delete a courier
7. Show all couriers
8. Add a new student
9. Add a new security
10. Add a new delivery service
11. Quit
6
Enter the courier ID:
OD005
Deleted the record succefully
Press any key to go back
```

Update Record:

```
Press any key to go back
g
1. Add a new courier
2. Display all orders of a particular student
3. Display all orders registered by particular security gaurd
4. Mark a courier as recieved
5. Update a student id of a courier by courier ID
6. Delete a courier
7. Show all couriers
8. Add a new student
9. Add a new security
10. Add a new delivery service
11. Quit
4
Enter the courier ID:
OD003
Updated the record succefully
```

Notes & Instructions to run the code

To create the database:

$ source courierdb_create.sql

$ source courierdb_alter.sql

$ source courierdb_data.sql

To run the JDBC Program:

$ javac JDBC_Courier.java

$ java -classpath "mysql-connector-java-8.0.18.jar:." JDBC_Courier

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