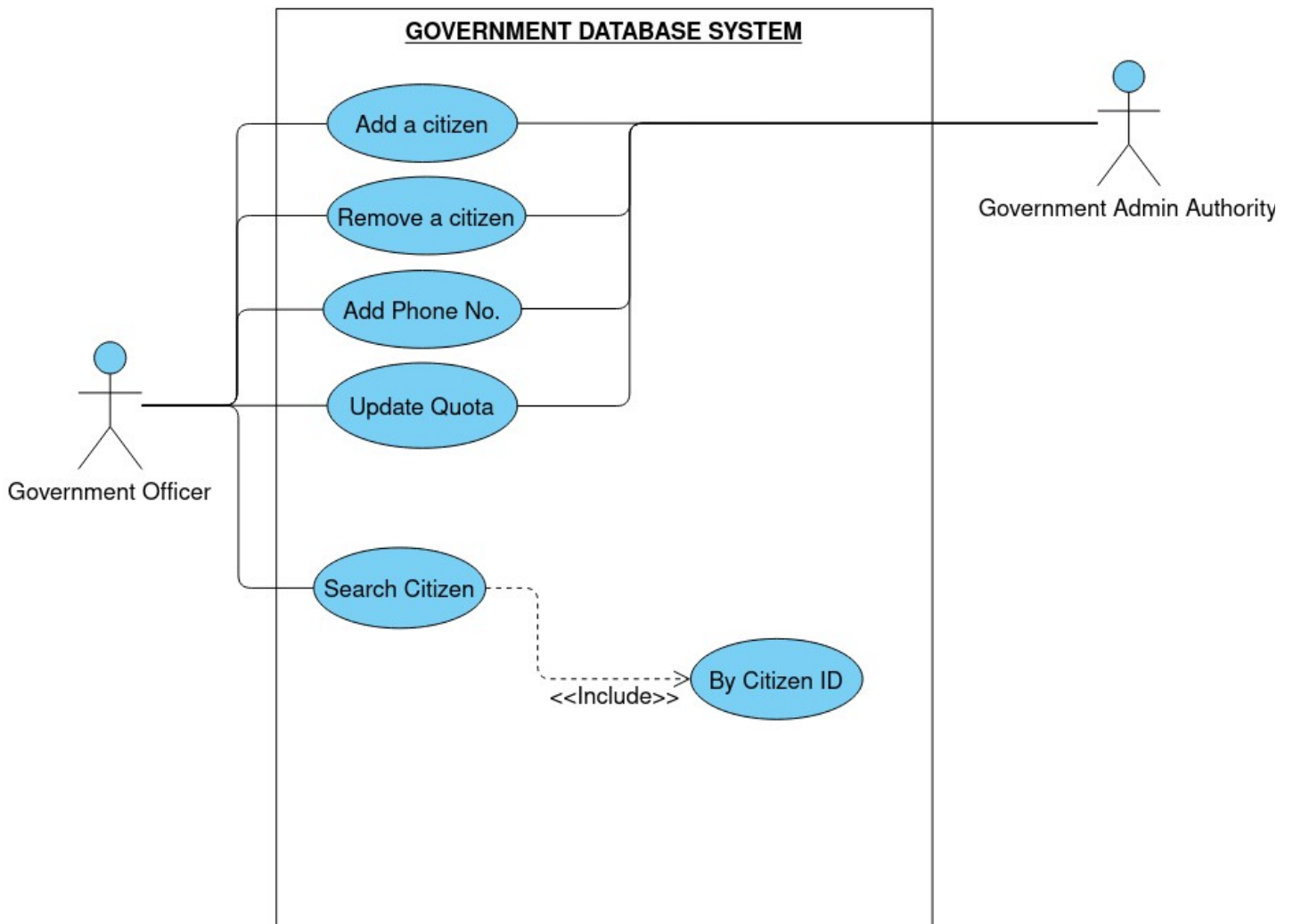# JDBC PROJECT REPORT
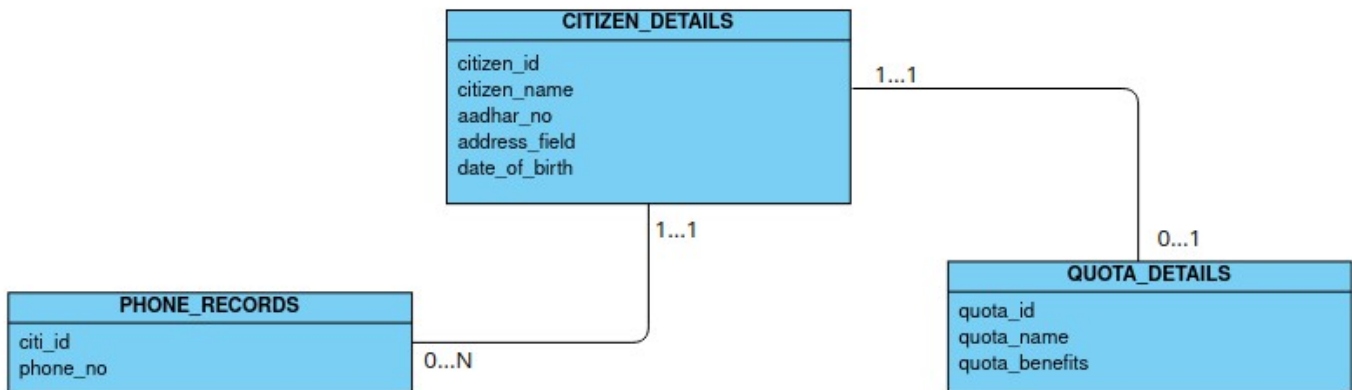
Samaksh Dhingra (IMT2019075)

GOVERNMENT DATABASE SYSTEM
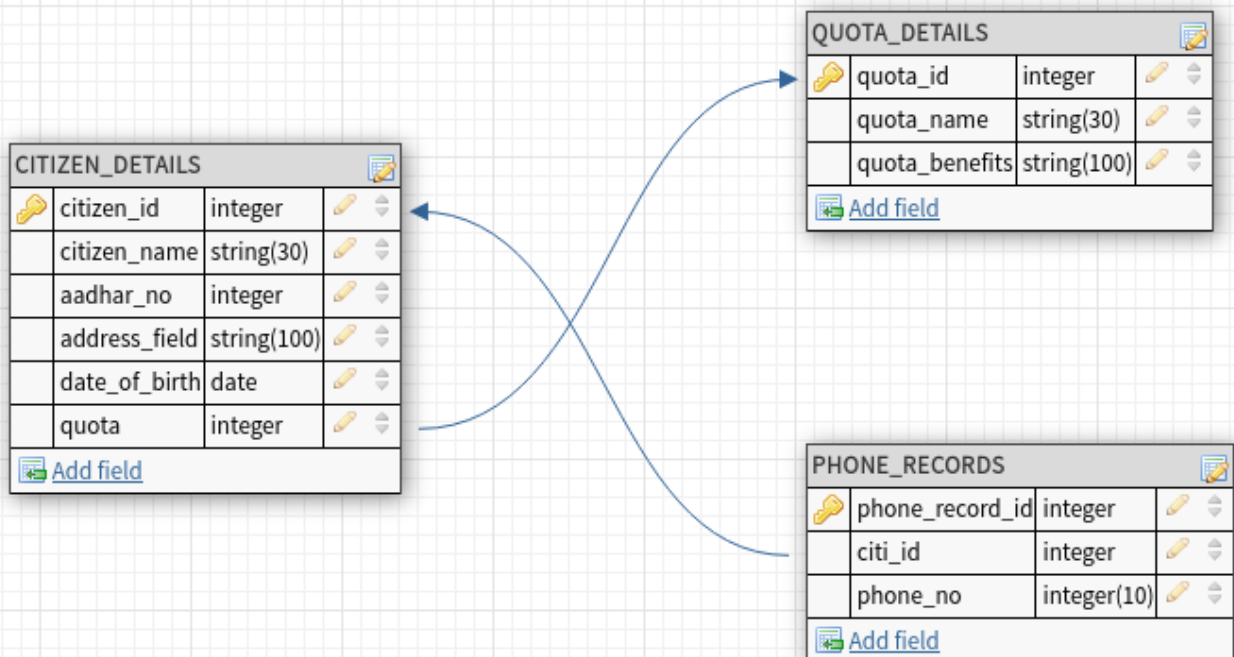
USE-CASE DIAGRAM

UML CLASS DIAGRAM
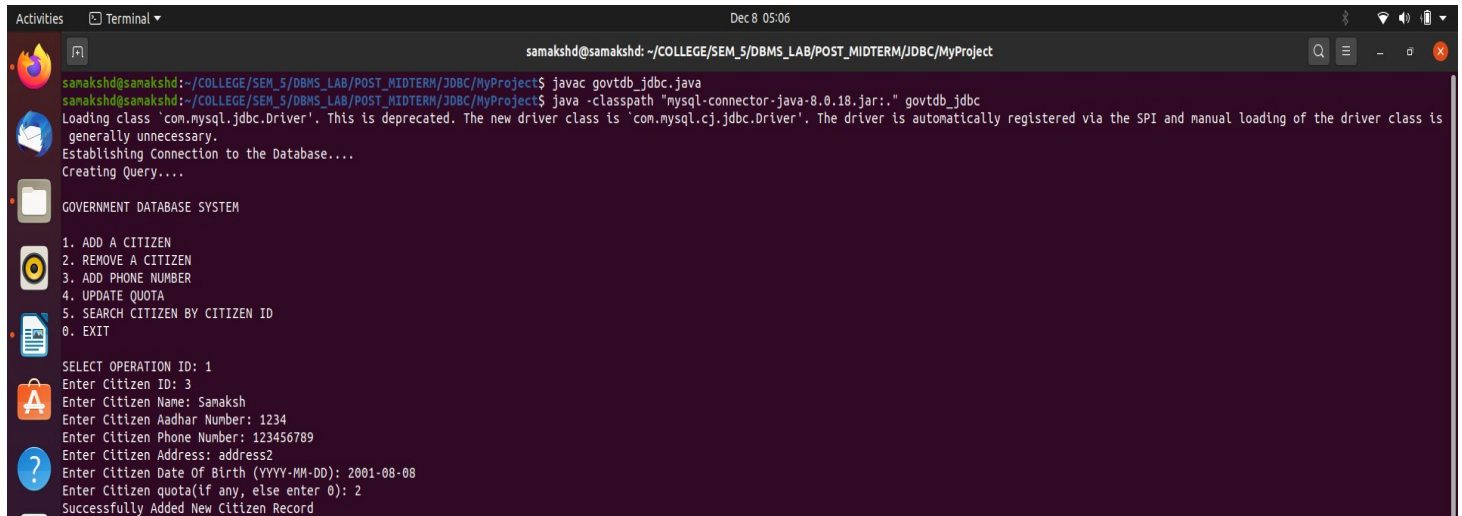
OR MAPPING (DB DESIGN) [Using DBDesigner.net]

OUTPUT SCREENSHOTS

1. Insert

2. Delete

3. Update


```
samakshd@samakshd:~/COLLEGE/SEM_5/DBMS_LAB/POST_MIDTERM/JDBC/MyProject$ java -classpath "mysql-connector-java-8.0.18.jar:." govtdb_jdbc
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is
 generally unnecessary.
Establishing Connection to the Database....
Creating Query....

GOVERNMENT DATABASE SYSTEM

1. ADD A CITIZEN
2. REMOVE A CITIZEN
3. ADD PHONE NUMBER
4. UPDATE QUOTA
5. SEARCH CITIZEN BY CITIZEN ID
0. EXIT

SELECT OPERATION ID: 4
Enter Citizen ID: 2
Enter Updated Quota ID: 1
Successfully Updated Quota
```

4. Search/Retrieve/Select


```
samakshd@samakshd:~/COLLEGE/SEM_5/DBMS_LAB/POST_MIDTERM/JDBC/MyProject$ java -classpath "mysql-connector-java-8.0.18.jar:." govtdb_jdbc
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is
 generally unnecessary.
Establishing Connection to the Database....
Creating Query....

GOVERNMENT DATABASE SYSTEM

1. ADD A CITIZEN
2. REMOVE A CITIZEN
3. ADD PHONE NUMBER
4. UPDATE QUOTA
5. SEARCH CITIZEN BY CITIZEN ID
0. EXIT

SELECT OPERATION ID: 5
Enter Citizen ID: 2
Searched Citizen Record:-

Citizen ID: 2
Citizen Name: Sam
Citizen Aadhar Number: 123
Citizen Address: addr1
Citizen Date Of Birth: 2020-09-09

Quota ID: 1
Quota Name: Indian Army Officer
Quota Benefits: Free Travel

Phone Numbers:-
1234566778
```

5. Exit


```
samakshd@samakshd:~/COLLEGE/SEM_5/DBMS_LAB/POST_MIDTERM/JDBC/MyProject$ java -classpath "mysql-connector-java-8.0.18.jar:." govtdb_jdbc
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is
 generally unnecessary.
Establishing Connection to the Database....
Creating Query....

GOVERNMENT DATABASE SYSTEM

1. ADD A CITIZEN
2. REMOVE A CITIZEN
3. ADD PHONE NUMBER
4. UPDATE QUOTA
5. SEARCH CITIZEN BY CITIZEN ID
0. EXIT

SELECT OPERATION ID: 0
THANK YOU !!
samakshd@samakshd:~/COLLEGE/SEM_5/DBMS_LAB/POST_MIDTERM/JDBC/MyProject$
```

NOTES AND INSTRUCTIONS TO RUN THE CODE

Assumption:- Don't add more than 1 length string in input as it may behave abruptly in current implementation.

Running and testing the program:-

1. Compile the .java file using following command:-
   javac govtdb_jdbc.java
2. Execute the java file using following command:-
   java -classpath "mysql-connector-java-8.0.18.jar:." govtdb_jdbc
3. Perform basic CRUD Operations as displayed on menu and follow the instructions as directed by each option in menu.