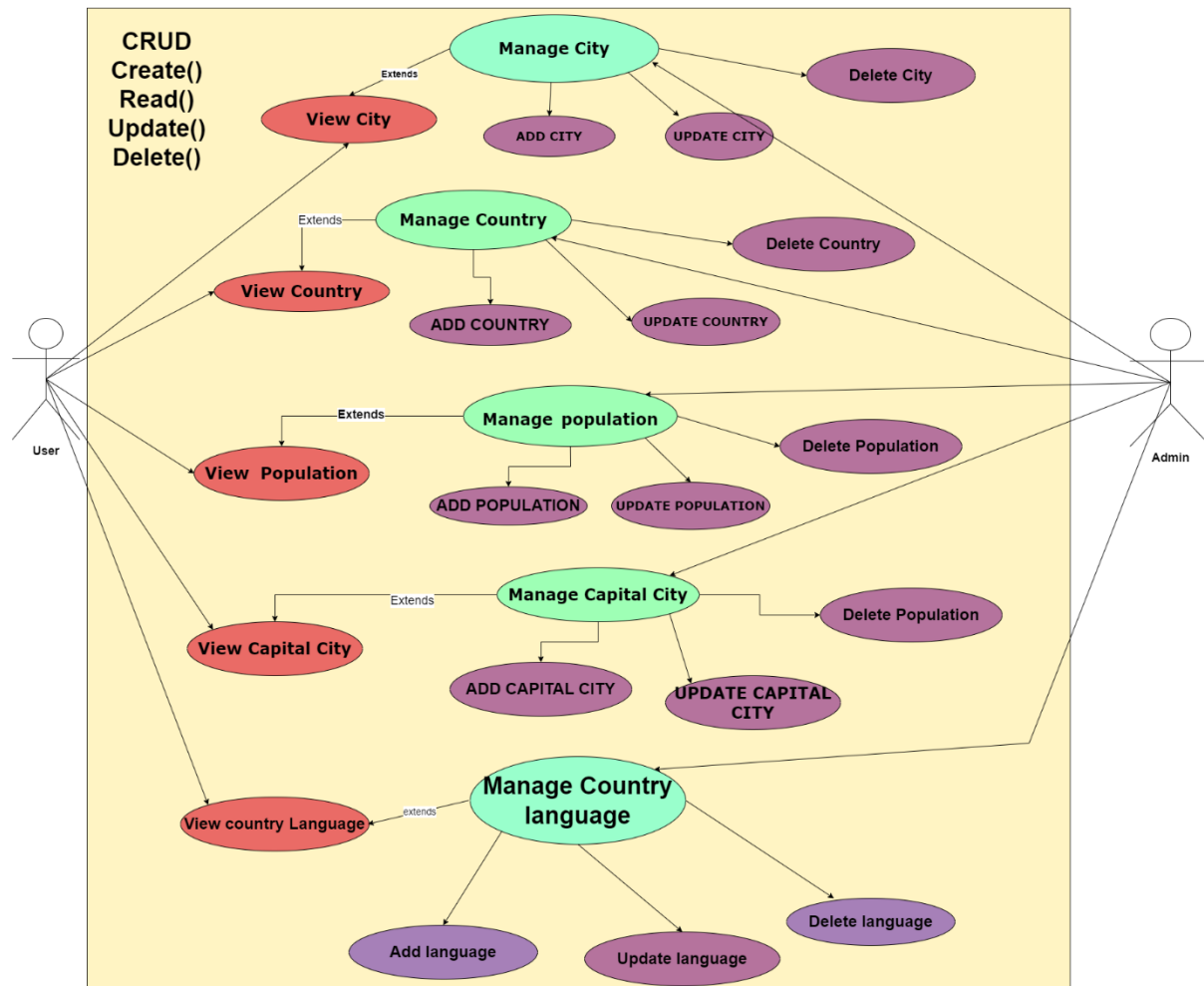# Diagrams
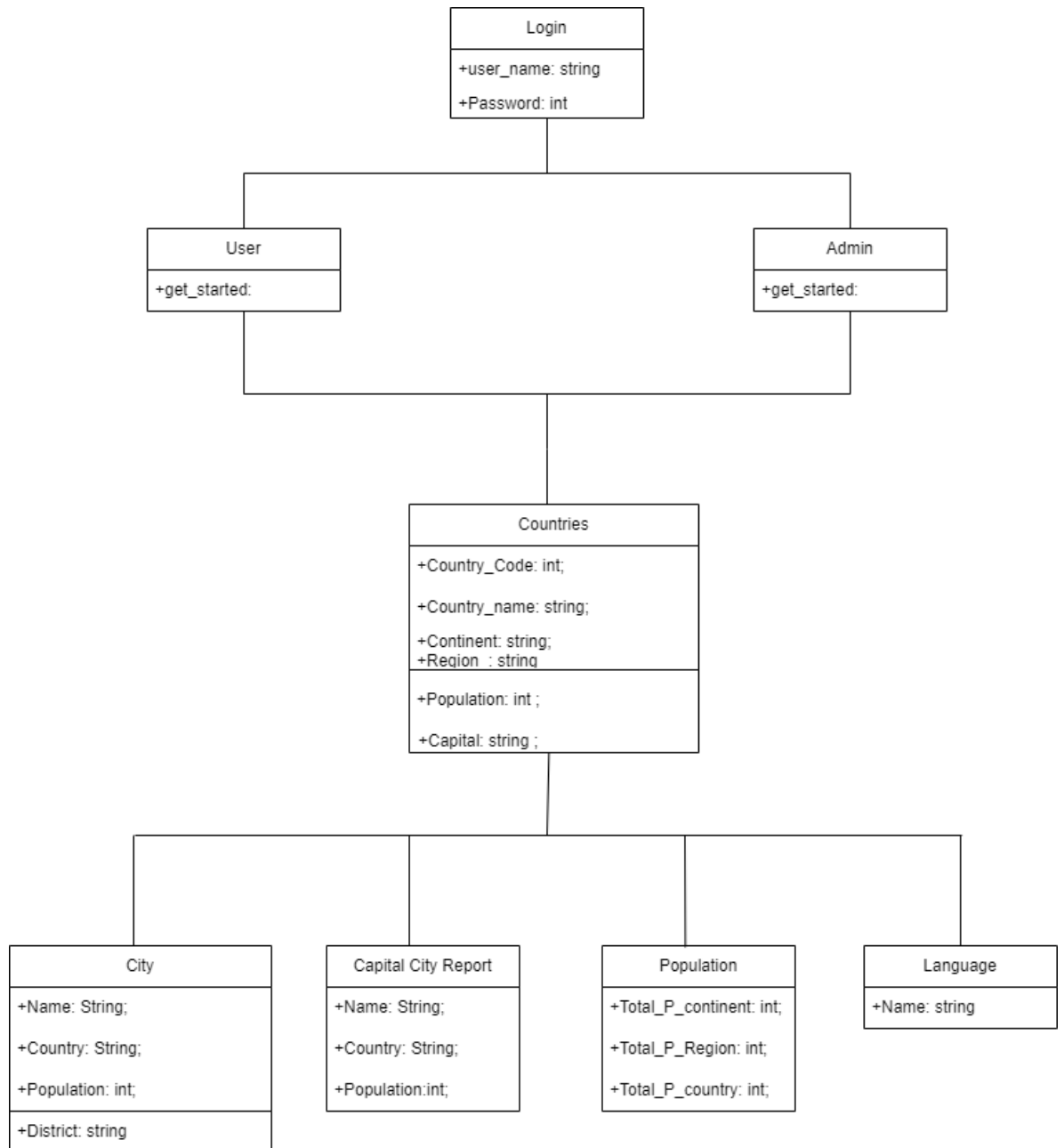
6 DIAGRAMS DEFINED

BY GROUP 10
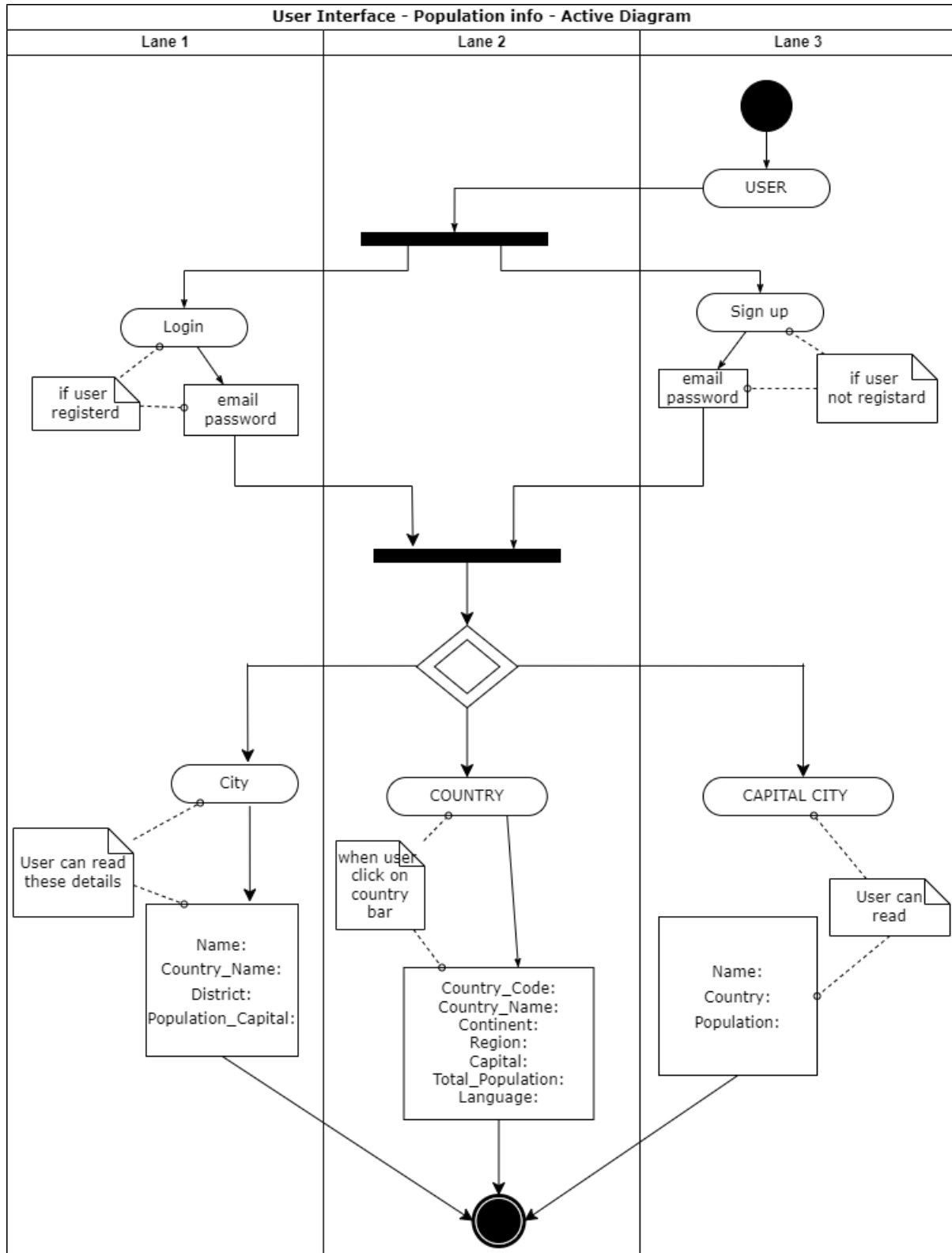
1. Use Case Diagram
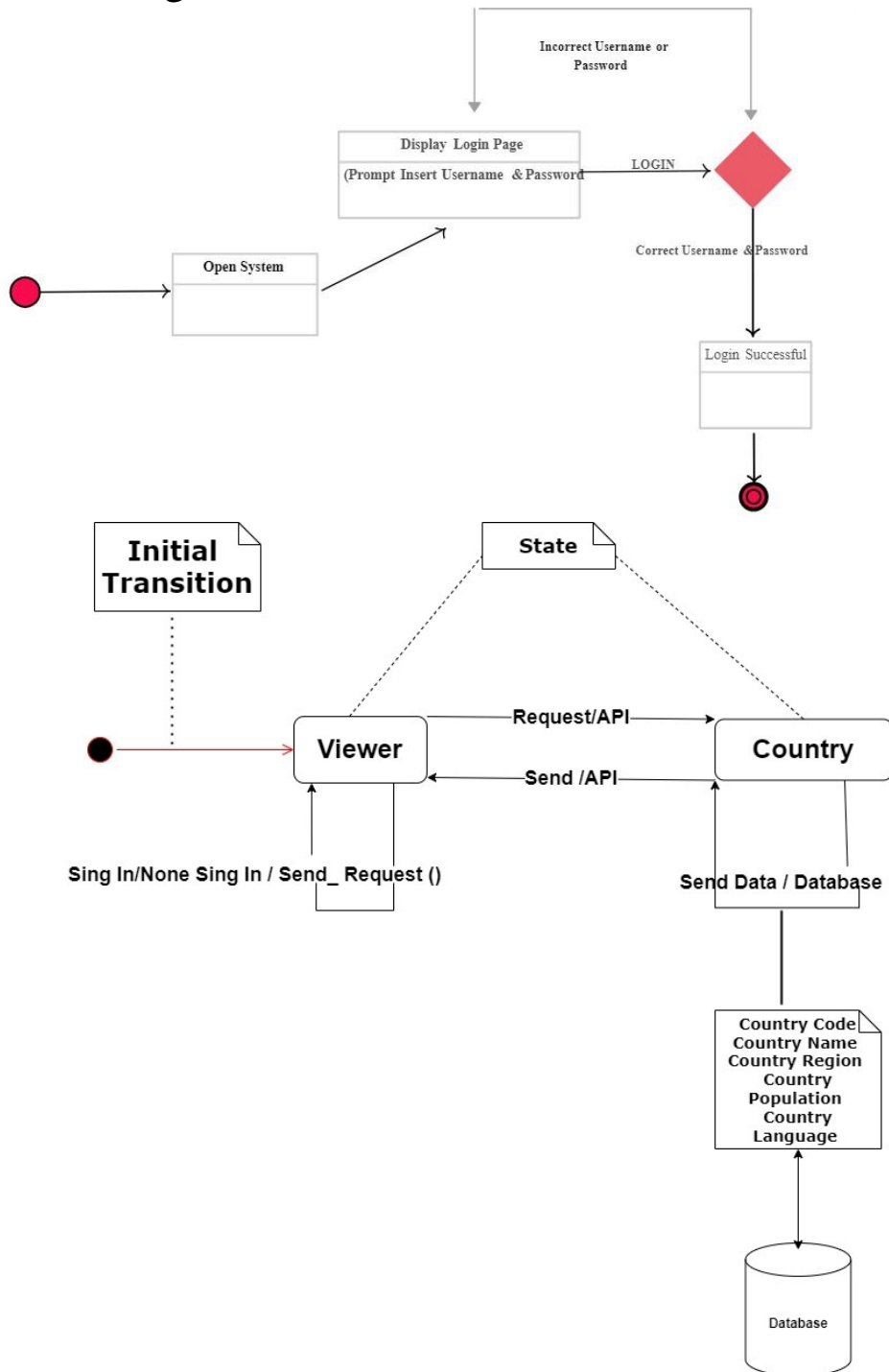
2. Class Diagram

```
                        ┌─────────────────────────┐
                        │          Login          │
                        ├─────────────────────────┤
                        │ +user_name: string      │
                        │ +Password: int          │
                        └─────────────────────────┘
                                    │
              ┌─────────────────────┴─────────────────────┐
     ┌──────────────────────┐                    ┌──────────────────────┐
     │         User         │                    │        Admin         │
     ├──────────────────────┤                    ├──────────────────────┤
     │ +get_started:        │                    │ +get_started:        │
     └──────────────────────┘                    └──────────────────────┘
```

Countries

- +Country_Code: int;
- +Country_name: string;
- +Continent: string;
- +Region : string
- +Population: int ;
- +Capital: string ;

City

- +Name: String;
- +Country: String;
- +Population: int;
- +District: string

Capital City Report

- +Name: String;
- +Country: String;
- +Population:int;

Population

- +Total_P_continent: int;
- +Total_P_Region: int;
- +Total_P_country: int;

Language

- +Name: string

3. Activity Diagram

User Interface - Population info - Active Diagram

Lane 1	Lane 2	Lane 3

USER

Login

if user registerd

email password

Sign up

email password

if user not registard

City

User can read these details

Name:
Country_Name:
District:
Population_Capital:

COUNTRY

when user click on country bar

Country_Code:
Country_Name:
Continent:
Region:
Capital:
Total_Population:
Language:

CAPITAL CITY

User can read

Name:
Country:
Population:

4. State Diagram

Incorrect Username or Password

Display Login Page

(Prompt Insert Username & Password)

LOGIN

Open System

Correct Username & Password

Login Successful

Initial Transition

State

Viewer

Request/API

Country

Send /API

Sing In/None Sing In / Send_ Request ()

Send Data / Database

Country Code
Country Name
Country Region
Country Population
Country Language

Database

5. Sequence Diagram

6. User Flow Diagram