

## 1. List of features and entities

- Essential Features:
  - Login
    - Welcome message
    - Credentials
      - Username input
      - Password input
  - Main Menu
    - Emails
      - List of emails
      - Send an email
      - Respond to an email (get list of emails and choose email to respond to)
      - Read a specific email
      - Archive email
      - Unarchive email
      - Find an email by subject – included in the archived emails
    - Appointments
      - Create an appointment
      - Get my appointments for today / tomorrow / next week
    - Log out
  - Admin Menu
    - Create user
      - Enter user details
    - Delete user
      - Confirm delete
- Entities:
  - User (Regular user vs admin user)
    - First name
    - Last name
    - Date of birth
    - Email address
    - username
    - Password (can be saved as cleared text)
    - Address:
      - city
      - street
      - number
    - Role: Admin/User
  - Email
    - From
    - To
    - Subject
    - Body
    - Time stamp
  - Email Archive
    - EmailID

- Appointment
  - From
  - To
  - Subject
  - When the appointment occurs
  - Where the appointment occurs (can choose a place from a specific list)
- List of places for appt, to set up db or hardcode

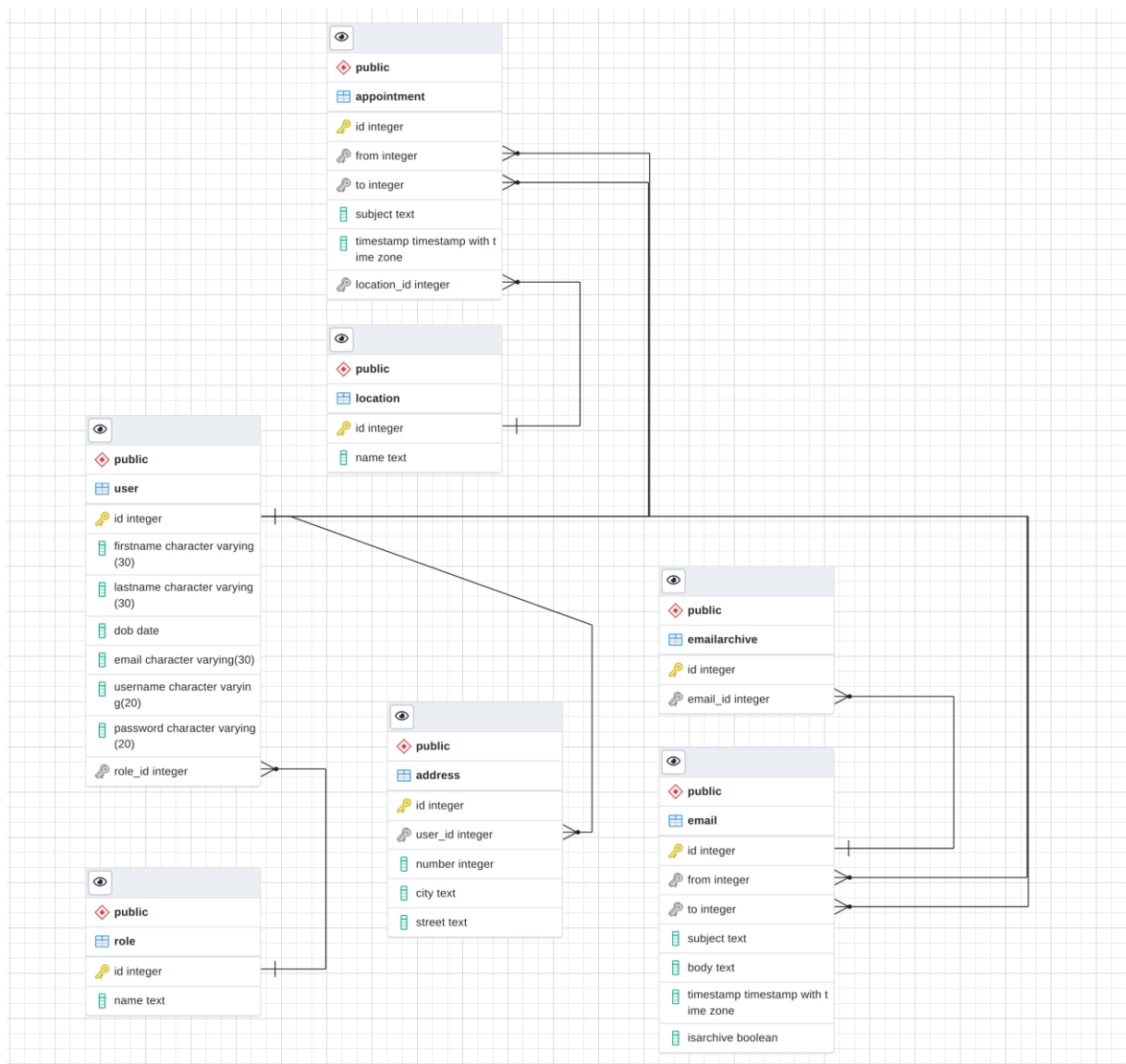
User	
ID	PK/Int
FirstName	String
LastName	String
DOB	Date
Email	String
Username	Varchar(30)
Password	String
Role	String

Address	
ID	FK/Int
City	String
Street	String
Number	Int

Email	
EmailID	PK/Int
From	String
To	String
Subject	String
Body	String
Timestamp	DateTime

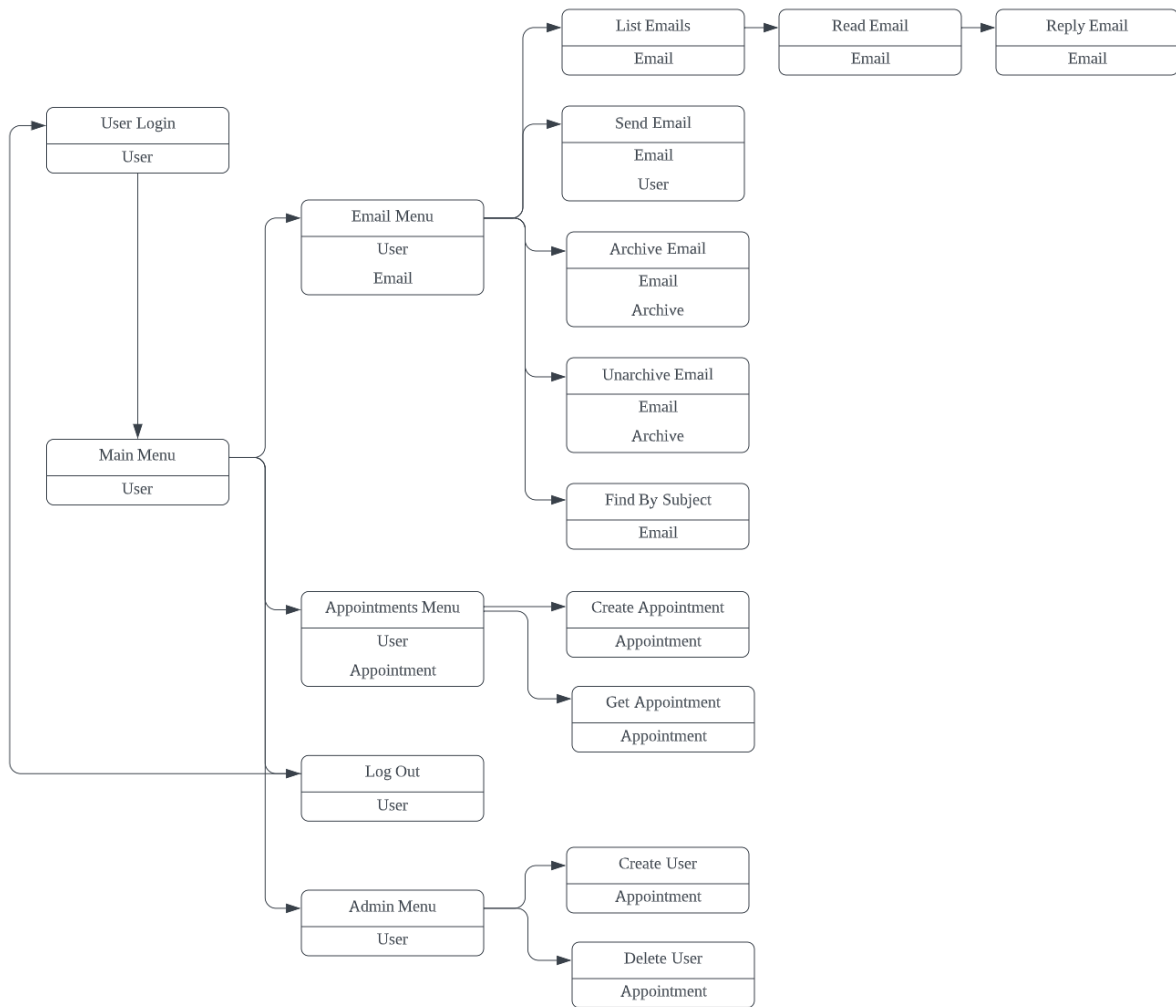
EmailArchive	
EmailID	PK/Int

Appointment	
AppointmentID	PK/Int
From	String
To	String
Subject	String
Date	DateTime
Location	String



## 2. Map of project architecture

Program flowchart with feature and entities.



### 3. Implementation of features

