Assignment on NodeJS

Create a application which will contains following features

1. The PersonInformation database in MongoDB that will be containing collection of Person Information as like aadhar information (except any binary data)
   1. The Collection in MongoDB should capture information line
      1. PersonalUniqueueID
      2. Full Name (3 Separate field First Name, Middle Name and Last Name).
      3. Gender
      4. Date-Of-Birth
      5. Age
      6. Address
         1. Flat/Bungalow Number
         2. Society Name
         3. Street Name/Area Name
      7. City
      8. State
      9. Pin Code
      10. Phone No
      11. Mobile No
      12. Physical Disability If Any
      13. Marital Status
          1. Married, Unmarried, Divorced, Widow, Widower, etc
      14. Education Status, e.g. Masters, Phd, Graduate, Under-Graduate, HSC, SSC, Illiterate, etc.
      15. Birth Sign if Any
   2. The Mongodb Must have following collections
      1. Roles
         1. RoleID
         2. Role Name
            1. Roles will be

Administrator

Operator

AccessUser

* + 1. Users
       1. User ID
       2. User Name
       3. Email Address
       4. Password
       5. Role Id
    2. LoginStatus
       1. LoginStatusId
       2. UserName
       3. LoginForm
       4. DateTime
       5. IPAddress

1. Create a REST APIs using Express and Node to Access MongoDB data. These REST APIs will be performing following operations
   1. Create REST API for User Management as explain below
      1. Create Roles
      2. Create Users
         1. User Must be assigned to Role while creating User
         2. If User assignment to role fails, then user creation should also be failed
            1. The default role is AccessUser
            2. The REST APIs, must manage login process and application access must be controlled using Token (Json Web Tokens)
            3. CRUD operations on Database for Personal Information

The REST API should Connect to MongoDB Collection to Perform CRUD Operations.

The Information of the Persons can be created by only by Administrator or Operator.

The PersonUniqueueId can be generator, only when the Administrator Approves information.

Similarly, the Information of the person can be Updated by AccessUser/Operator/Administrator. These modifications must be saved only when the Administrator approves it.

The REST APIs, must validate the posted data from the user while performing POST and PUT operations. If any invalid data is posted then the REST API must respond exact error to client.

* + - * 1. Search operations based on criteria. Note there should be single method in REST api which will perform search operation any criteria e.g. PersonName=value, City=Value, Age>value, Age<value etc.

The search is accessible to only Operator and Administrator.

The AccessUser can see only his/her information after log-in.

* + - 1. The REST APIs must use Token Based Authentication using JWT