

Auth Service

We need to implement Auth Service so that users can log in, sign up, and access the APIs present in our application based on their roles. For that, we need the **AuthService**. For that, we need to create a new class named **AuthService** in the service package and annotate it by `@Service` annotation.

DTOs

LoginRequest

```
@Data
public class LoginRequest {
    @NotNull(message = "Provide a valid username or email")
    private String usernameOrEmail;

    @NotNull(message = "Provide a valid password")
    private String password;
}
```

LoginResponse

```
@Data
public class LoginResponse {
    private String username;
    private String email;
    private String token;
    private String name;
    private Integer id;
}
```

```
@Service
public class AuthService {
    // Sign in
    public LoginResponseDTO authenticateUser(LoginRequestDTO requestDTO) {

    }
    // sign up
    public ResponseEntity signUpuser(SignUpDTO signUpDto, String role) {
        // Verify if the user already exists
        //If not then create this user and respond HTTP.OK
        // Map role for the new user
    }
}
```