## **User Registration Service**

In the next diagram (Figure 1) there are some of the core components of the service. The UserController receives a SaveUserRequest with the user details and phones, then it uses a validator method implemented in UserControllerHelper. The helper, in turn, uses the UserRepository to validate if the email is not already taken. If all validations succeed, the password is encoded using the SecurityService and the user is persisted to database.

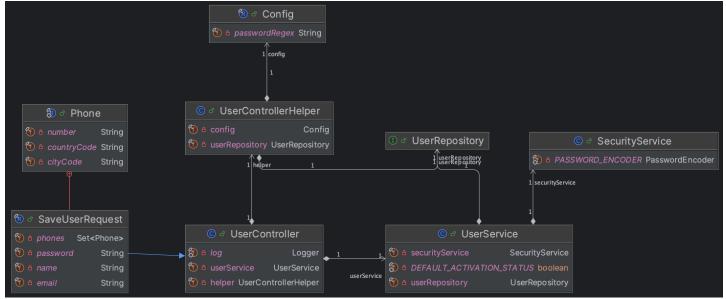


Figure 1- Core components

Once the user is persisted, the *UserMapper* converts the *User* entity to *UserRegistrationInfo*, the DTO that will be returned as response. See *Figure 2*.

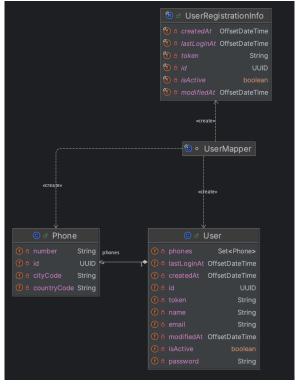


Figure 2 - DTO mapping

## The data model

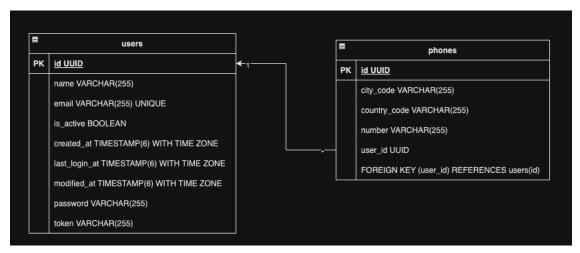


Figure 3 - ER diagram

## The script

```
DROP TABLE IF EXISTS phones CASCADE;
DROP TABLE IF EXISTS users CASCADE;
CREATE TABLE users (
    id UUID PRIMARY KEY,
    name VARCHAR(255),
    email VARCHAR(255) UNIQUE,
   is active BOOLEAN,
   created at TIMESTAMP(6) WITH TIME ZONE,
   last login at TIMESTAMP(6) WITH TIME ZONE,
   modified at TIMESTAMP(6) WITH TIME ZONE,
    password VARCHAR (255),
    token VARCHAR (255)
CREATE TABLE phones (
    id UUID PRIMARY KEY,
    city code VARCHAR (255),
    country_code VARCHAR(255),
    number VARCHAR(255),
    user id UUID,
   FOREIGN KEY (user id) REFERENCES users(id)
```