HOMEWORK 3

POSTGRESQL AND LAYERED ARCHITECTURE

PREREQUISITES:

The task is a continuation of **Homework 2** and should be done in the same repo.

TASK 3.1

- Install DB PostgreSQL on your machine or use a free web hosting services for PostgreSQL (https://www.heroku.com/postgres or https://www.elephantsql.com/plans.html).
- Write SQL script which will create **Users** table in the DB and fill it in with predefined users' collection.
- Configure your **REST** service to work with **PostgreSQL**.
  - Use the **sequelize** package (http://docs.sequelizejs.com/) as **ORM** to work with **PostgreSQL**.

  As an alternative to **sequelize** you can use more low-level **query-builder** library (http://knexjs.org/).

TASK 3.2

The service should adhere to 3-layer architecture principles (https://softwareontheroad.com/ideal-nodejs-project-structure/) and contain the following set of directories:

|- routers / controllers
|- services
|- data-access
|- models

EVALUATION CRITERIA

2. PostgreSQL database is installed and **Users** table with some seed data is added to it.
3. Some User CRUD REST methods are implemented to store/retrieve data from database. Code quality is not good.
4. **Task 3.1** is fulfilled to the full extent. All User REST methods get/save data to real database instead of memory.
5. **Task 3.2** is fulfilled to the full extent. All components are correctly named and splitted by folders mentioned in **Task 3.2**.

5*. *Consider to use Typescript.*