Guest house management API

Objective:

Create APIs to manage guest houses near Sofia.

Entities:

Guest house – km from Sofia, name, nearest city, quadrature, number of floors, rentedDays, ownerId, renterId

User – username, password, role (owner, renter)

Individual – first name, second name, last name, ID card number, address, date of birth, userId, active, phone number, email

Address – country, city, district, individualId

Actions:

* Create user per type (POST /register,

POST/login)

* Add individual for the user (POST /individual, /PATCH /individual)
* Add address (POST /address, PATCH /address), if not active cannot add address

Add property to rent PATCH /rent/house,

guest house (POST /guest/house,

PATCH /guesthouse-payment/per/day,

DELETE /guesthouse - @PathVariable,

PATCH/Release/house - @PathVariable),

if not active cannot add guest house

* Search by criteria guest houses (GET /guesthouse)

Technology:

Spring MVC, JDBC, Spring security

All tests should be performed with MockMvc etc . integration tests and not with postman

Useful links:

API design

<https://swagger.io/resources/articles/best-practices-in-api-design/>

<https://docs.microsoft.com/en-us/azure/architecture/best-practices/api-design>

<https://stackoverflow.blog/2020/03/02/best-practices-for-rest-api-design/>

SOLID principles

<https://www.freecodecamp.org/news/solid-principles-explained-in-plain-english/>

<https://medium.com/backticks-tildes/the-s-o-l-i-d-principles-in-pictures-b34ce2f1e898>

Integration tests

<https://docs.spring.io/spring-framework/docs/4.2.0.RC2/spring-framework-reference/html/integration-testing.html>

<https://spring.io/guides/gs/testing-web/>

<https://phauer.com/2019/modern-best-practices-testing-java/>

<https://dzone.com/articles/integration-testing-in-spring-boot-1>

<https://www.baeldung.com/spring-multipart-post-request-test>

<https://www.javacodegeeks.com/2021/03/testing-the-file-upload-api-in-spring-boot.html>

General

<https://www.toptal.com/java/tips-and-practices>

<https://www.baeldung.com/java-clean-code>

<https://dzone.com/articles/java-best-practices-quick-reference>

Documentation

<https://www.baeldung.com/spring-rest-docs>

<https://springframework.guru/spring-rest-docs/>

<https://tanzu.vmware.com/developer/guides/spring-rest-docs/>