Software Lifecycle Management

<Scenario> Square API

<Description> We are a small Geo Company in Vienna. A client wants an API which outputs the square of a number

Project

You should implement a REST-based server in Java (use [Spring Boot](https://spring.io/guides/tutorials/rest/)). The service should be able to return the desired information using REST.

Requirements

Use GitHub or Azure DevOps for the project and follow the correct DevOps procedure. Use a Kanban board to manage your User Stories and use a git branching model (preferable gitflow) to manage your code. Track your development process by updating your Kanban board and write at least one unit tests for every requirement. A Continuous Integration pipeline that produces the finished software artifact should be implemented as well. Document

* the whole process
* the user stories
* the repository URL
* the usage of the software

in a Readme file with explanatory text. Submit the code (including the .git folder and ALM files) as a zip file (please put the Readme inside the zip file).

You can use external resources as long as you mark them: “ // taken from: <URL> ”

Points

* Documentation of the process: 15%
* Requirement definitions (User Stories): 15%
* Correct status / Linking / Branching (Kanban, Git): 15%
* Implementation: 15%
* Testing: 15%
* Pipeline (Continuous Integration and Maven): 15%
* Artefacts (Continuous Delivery): 10%

All elements must be present in the documentation.

References

<https://github.com/LukasSchagerl/SquareAPI>