Software Lifecycle Management

SquareAPI

We are a small math company in Vienna. A customer wants an API with which he can square a number.

Project

You should implement a REST-based server in Java (use Spring Boot). The service should be able to return the desired information using REST.

DerKauzigeKoala bin ebenfalls ich, nur hat intellij die git credentials genommen für die commits und nicht meinen ic21b031 account.

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): 20%
- Implementation: 15%
- Pipeline (Continuous Integration and Maven): 20%
- Artefacts (Continuous Delivery): 10%

All elements must be present in the documentation.

References

api/square?n=2 → 4

api/number?n=1 → 1

Documentation

Projekt in Intellij erstellt. Danach aus Intellij auf Github hochladen.

Neue branch erstellen (develop). Maven_develop.yml erstellen.

Use Cases erstellen. Feature branch erstellen.

Usecase implementieren und mit develop mergen (über pull request).

Neuen Workflow erstellen und build artifact code zeilen hinzufügen.

Develop mit master mergen