

SLM-Study-Project

A group project for the topic of software-lifecycle-management.

The goal is to implement a very simple REST API in JAVA, but configure and manage a whole CI/CD structure around the project, as well as using proper development procedures in git. (User-Stories, Requirements, etc.)

Project-prompt

We are a small hydro-power electricity supplier near Vienna. Our customers expect electricity around the clock with a very high service level agreement. It is easy to derive that service times are very important to us. Huge monitors were installed that should show the current service message.

"Everything operates as expected" is the default message. But a service operator can set the message manually to something else (e.g., "Service checks: No power until 5:00 pm"). A service operator can also reset the message to its default message.

Project-Team

- @HackXIt
- @thorinaboenke
- @funkeydow

REST API Goals

- ✓ The service should be able to manage a centrally stored message.
- ✓ The service should be able to deliver the message to a client.
- ✓ The service should be able to set *it* to a specific message. (it = centrally stored message)
- ✓ The service should be able to reset the message.

General Project Requirements

- ✓ Documentation of "the whole process" regarding the project
- ✓ Documentation of "the user stories" (i.e. have user-stories in general)
- ✓ Documentation of "the usage of the software" (i.e. manual of the API)
- ✓ The repository URL needs to be documented and be publicly viewable

Grading criteria

- 20% Documentations of the process
- 15% Requirement Definition (User Stories)
- 15% Correct Status / Linking / Branching (Kanban, git)
- 15% Implementation
- 15% Testing

- 10% Continuous Integration (Pipeline Testing)
- 10% Continuous Delivery (Pipeline Artifact)

Example Reference

API-Path	Example-Result
/api/message	"Everything works as expected"
/api/message/set? m=Service+checks:+No+power+until+5:00+pm	"ok"
/api/message	"Service checks: No power until 5:00 pm"
/api/message/reset	"ok"
/api/message	"Everything works as expected"