15-710-866

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Keywords: Docker, Docker Compose, Remove Azure Function, Spring Boot Setup, Research

Overall Progress: 3

Activities completed:

- Azure / Spring Boot: Discarded the azure function part of the Lexing / Annotation Service and set up a completely new Spring Boot project for the Java-based Annotation Service. Created Controller and corresponding Services for the underlying base module calls and wrote Unit Tests for the service. Added validation for the annotation service.

- US9 - API: Updated the api service so that it makes the calls to the corresponding services, based on the docker environment variables, instead of the previously hardcoded values, removed mock data. Fixed communication between docker containers.

- Database: Researched ways to store the data and different data models.

- Docker & Docker Compose: Set up and configured the docker and docker compose file for the annotation service. Researched and added basic dockerfile for the api service.

Current activities:

- Research how to setup CI in GitHub (actions)

- Research how to make use of SonarQube

- Research how to automate the build, docker hub push and SonarQube integration

Goals or Activities for next deliverable:

- CI Setup with SonarQube and Docker Hub: Setup SonarQube to measure code quality and test coverage for the services, setup GitHub actions and build docker images, finally push them to Docker Hub.

- If time allows, swagger integration for the services' APIs.

Immediate attention: -

General remark: Dockerization of services took a lot of time. After realizing that the Docker build did not work for some team members with newer M1 MacBooks, a lot of time and effort went into recreating the services without azure functions.