

# 15-716-954

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**Name:** Michael Ziörjen

**Keywords:** Dockerization of Cloud Function, Mongo DB Setup, Docker Build, Highlighting, Annotation Service

**Overall Progress:** 2

**Activities completed:**

- Containerize Annotation Service with Docker
- Setup Docker Compose with Mongo DB
- Containerize Mongo DB
- Connect Mongo DB with Annotation Service
- Extend Annotation Service to Highlight Code and store it in DB for Train Service

**Current activities:**

- Project Management for current Sprint
- Research uptime / redundancy / performance requirements and think about potential implications for architecture of solution
- Update wiki and documentation

**Goals or Activities for next deliverable:**

- US5: Implement uptime / redundancy / performance requirements
- Research proper API documentation standards (Swagger, OpenAPI) and pick most suitable one for our solution
- Potentially assist Michael Blum with the Demo
- Potentially assist Sebastian Richner with the SonarQube setup

**Immediate attention:** -

**General Remarks:** We've spent a lot of time trying to wrap our serverless azure functions in a docker container which works according to their documentation. However,

we couldn't get the builds to run on ARM processors that the new M1 MacBooks use. This was because the official Docker images of Azure (our selected cloud provider) do not yet support these novel processor. Consequently, we had to ditch the whole idea of serverless cloud functions and use the traditional service approach where each microservice consists of a single (or multiple) long-running process instance including a webserver.