Sprint 3

# Sprint Goals

* Video and Algorithm Services.
* Wireframes
* Communication between front-end and back-end
* C4 level 3 Diagram
* Kubernetes load balancer & gateway

# Achievements

* Extra CD implementation using K8S, now once the new images have been built on DockerHub, the k8s cluster updates itself.
* Video service nearly fully implemented.
* Implemented K8S load balancer and gateway using Ingress-Nginx, also used for autoscaling, since it provides a valid metric on bandwidth.
* C4 level 3 diagram created.
* Front-end connected to most of the available back-end.
* VIDEO/IMAGE STREAMING.
* Added CPU and memory metrics for scaling k8s deployments.
* Algorithm service (now called Feed service) built, but not yet implemented in the application.
* Cloud research regarding databases and cloud storage – will be delivered with portfolio.

# Remarks

* Video service not fully implemented due to some issues with JWT Authentication between microservices.
* Algorithm service (now called Feed service) still not implemented due to video service not yet fully functional.
* Wireframes dropped due to not being that important for the project.

# Links

## DevOps

<https://dev.azure.com/444310/WatchTime>

## Git

<https://github.com/Snechar/WatchTime>

## CI/CD

* CD
  + <https://github.com/Snechar/WatchTime/actions>
  + <https://hub.docker.com/u/snechar>

CI has still not been implemented

## Repos

<https://github.com/Snechar/WatchTime>

# Presentation

Live presentation will be held on the 13th of May.

# Sprint Plan for next sprint

* Find fix for JWT Authentication between Microservices
* Complete Video Service
* Testing and CI implementation (including Testing document)
* DevOps Document
* K8S storage implementation for Video Service using Local Persistent Storage