Choices made for WatchTime

# Security by design

There are many ways to implement security by design, however for the creating of WatchTime, I will use the following

* Build on proven technology

Use technologies that has been proven to be secure.

* Automate checks

Create systems for checking tokens, especially in the communication between the microservices.

Use already existing vulnerability tests and automate them in order to create a secure environment.

* Follow privacy principles.

Correct handling of personal data following the correct principles.

In order to prevent DDoS attacks a system for validating requests will be implemented. If a user posts to many requests, he will be blocked for a period of time.

Relying on multiple servers can also stop DDoS attacks, since the hacker cannot attack all of them at once.

Nearly every available cloud service already has measures implemented against DDoS attacks.

# Storage

Due to the nature of the project, a lot of data will be transferred.

In order to accommodate for this amount of data, multiple servers will be used.

Each server will have a capacity meter to see how much traffic it has. 20% of the server power will be used for uploading and 80% for streaming.