Software Architecture Document

SUE Data Science platform – SA-RB-01

By: Mohammed Bouali, Andrei Pieleanu,   
Calvin Kwan, Wildeman Björn

Contents

[C1 3](#_Toc177732469)

[C2 4](#_Toc177732470)

[C3 5](#_Toc177732471)

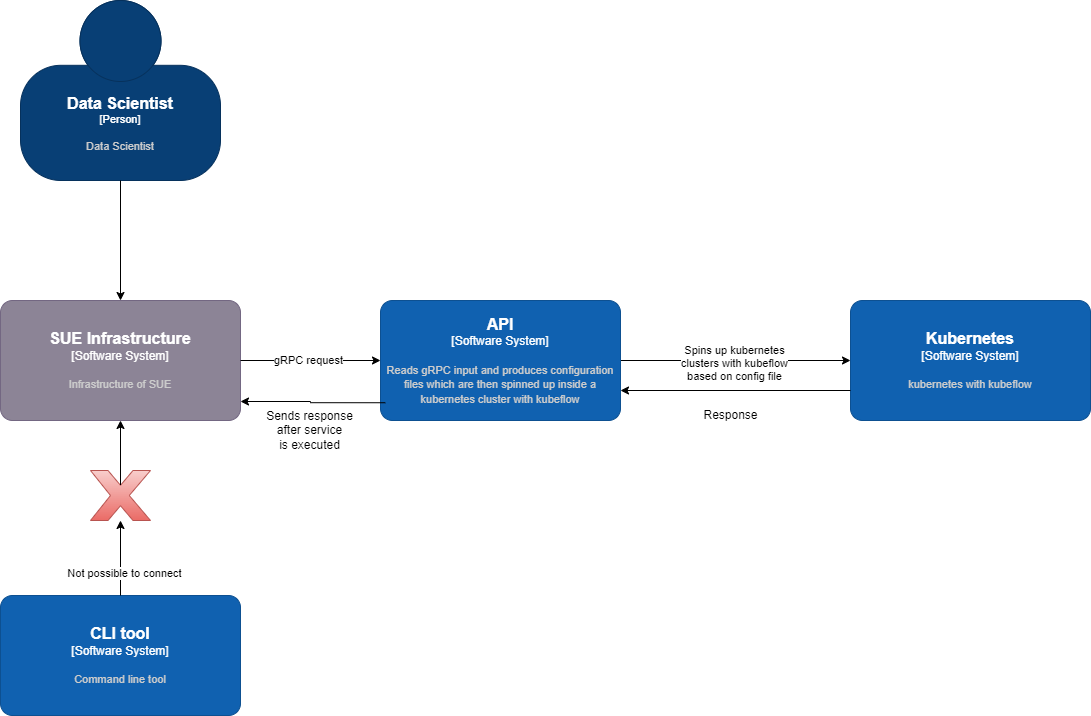
### C1

A diagram of a data scientist

Description automatically generated

The data scientist accesses the whole system, which is comprised of our own system, but also external systems.

### C2



The data scientist accesses the SUE infrastructure which then sends a request via gRPC. The API system then spins up Kubernetes clusters with Kubeflow based on config file. The cluster returns a response which is sent back to the SUE infrastructure.

### C3

A diagram of a software company

Description automatically generated

The API system is comprised of an API gateway, which is responsible for handling request and responses. The backend consists of multiple microservices which are responsible for handling the work.