Vidzemes University of Applied Sciences

**Faculty of Engineering**

cybersecurity requirements engineering

project work assignment

“title”

Valmiera, 2023

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# Introduction

**Goal and briefly about the system**.

Example: The goal of this assignment is to analyze cybersecurity requirements of the software “Processing Center”. This systems consists of several parts or modules which can work on one server or several through network. This document was created in order to identify security vulnerabilities and provide preventive actions. This system has created not for cloud environment, but it can work in Kubernets with virtual servers infrastructure. The system has two main parts: front – which waits requests from outside networks, and back – which has stable connection to the database. Between front and back we have ActiveMQ which transfers messages between front and back. It is a simple non-commercial example without any additional components, I mean load balansers, firewalls, route networks, etc. More information below on diagram.

**Remember that this assignment should not include trade secrets**

# Chapter (example “System decomposition”)

AAA BBB CCC.

Example: “System decomposition”

## Chapter-2.1 (example “Data flow diagrams”)

AAA.

Example: Data flow diagrams shows how grumpy cat software is being constructed

### Chapter-2.1.1 (example “Use case diagram”)

AAA BB CCC.

### Chapter-2.1.2

AAA BBB CCC.

## Chapter-2.2 (example “Process flow diagrams”)

AAA BBB CCC.

Example:

# Chapter-3 (example “Attack trees”)

AAA BBB CCC.

## Chapter-3.1 (example “**Grumpy cat data storage asset**”)

# References

AAA.

Example

1. Pattern and Security Requirements: Engineering-Based Establishment of Security Standards. Krisstian Beckers, Springer, 2015.

2. Sci-kit learn, How to choose correct estimator for your model, Available https://scikit-learn.org/stable/tutorial/machine\_learning\_map/index.html

# Attachment 1

AAA.