Insert here your thesis' task.

FACULTY
OF INFORMATION
TECHNOLOGY
CTU IN PRAGUE

Master's thesis

Example Thesis

Bc. Sergey Dunaevskiy

Department of Software Engineering

Supervisor: Ing. Michal Valenta, Ph.D.

October 25, 2021

Acknowledgements

TODO

Declaration

I hereby declare that the presented thesis is my own work and that I have cited all sources of information in accordance with the Guideline for adhering to ethical principles when elaborating an academic final thesis.

I acknowledge that my thesis is subject to the rights and obligations stipulated by the Act No. 121/2000 Coll., the Copyright Act, as amended. In accordance with Article 46 (6) of the Act, I hereby grant a nonexclusive authorization (license) to utilize this thesis, including any and all computer programs incorporated therein or attached thereto and all corresponding documentation (hereinafter collectively referred to as the "Work"), to any and all persons that wish to utilize the Work. Such persons are entitled to use the Work in any way (including for-profit purposes) that does not detract from its value. This authorization is not limited in terms of time, location and quantity. However, all persons that makes use of the above license shall be obliged to grant a license at least in the same scope as defined above with respect to each and every work that is created (wholly or in part) based on the Work, by modifying the Work, by combining the Work with another work, by including the Work in a collection of works or by adapting the Work (including translation), and at the same time make available the source code of such work at least in a way and scope that are comparable to the way and scope in which the source code of the Work is made available.

In Prague on October 25, 2021 .....

Czech Technical University in Prague

Faculty of Information Technology

© 2021 Sergey Dunaevskiy. All rights reserved.

This thesis is school work as defined by Copyright Act of the Czech Republic. It has been submitted at Czech Technical University in Prague, Faculty of Information Technology. The thesis is protected by the Copyright Act and its usage without author's permission is prohibited (with exceptions defined by the Copyright Act).

Citation of this thesis

Dunaevskiy, Sergey. *Example Thesis.* Master's thesis. Czech Technical University in Prague, Faculty of Information Technology, 2021. Also available from: ⟨`https://github.com/dunaevskiy/thesis-masters`⟩.

Abstrakt

TODO

Klíčová slova TODO

Abstract

TODO

Keywords TODO

Contents

Introduction **1**

Main goal 1

Structure 2

1 Style Guide **3**

1.1 Section 1 3

1.1.1 Section 2 3

1.1.2 Subsection 3

2 Analysis of the previous project **5**

Conclusion **7**

Bibliography **9**

A Acronyms **11**

B Contents of media **13**

List of Figures

1.1 List label 1 3
1.2 List example of JS code 4

List of Tables

1.1 List label 1 4
1.2 List label 2 4

Introduction

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur vestibulum rutrum felis et tincidunt. Vestibulum a ipsum dictum, varius ante ac, blandit ex. Fusce sollicitudin varius odio id hendrerit. Donec ut bibendum lectus. Proin efficitur, nisi eu tristique suscipit, erat orci porttitor magna, ut commodo tortor odio dapibus mauris. In nec ligula sodales, blandit massa vel, iaculis sapien. Cras sit amet auctor orci. Sed neque sapien, varius sed mollis sit amet, vestibulum ut tortor.

Main goal

The main sight of the thesis is research about the microservices architecture (MSA) and the usage of acquired knowledge for refactoring and finalising the existing information system for project management.

Structure

Chapter 1 contains a brief analysis of previous project.

Chapter 2 contains a specification of the new project.

Chapter 3 contains an analysis of MSA.

Chapter 4 contains an analysis and implementation of the server.

Chapter 5 contains an analysis and implementation of the client.

Chapter 6 contains an information about testing.

Chapter 7 contains a deployment information.

At the conclusion, the result of the work, achievements of predetermined goals and fulfilment of the master's thesis are evaluated.

The source code of all applications, documentation and other materials are provided in the appendices and enclosed media.

Chapter 1

Style Guide

1.1 Section 1

1.1.1 Section 2

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa [1].

Nulla imperdiet imperdiet enim, et tristique risus. Fusce eu neque a ipsum aliquam viverra. Praesent sed vehicula `metus`, sed sodales orci. Sed `dolor` sit amet amet, consectetuer $\frac{5}{4}$ adipiscing eleifend MSA.

$$\int \gamma^n + y^n dx = \frac{5}{8}$$

1.1.2 Subsection

Lorem ipsum elit venenatis **??**.

Figure 1.1: Caption label 1

[1] Lorem ipsum dolor.

```
// Dependencies
require('Styles/index.scss');
const Application = require('Core/Application.class');
// Application
global.app = new Application();
app.init(x <= 5);
app.getRouter().refresh();
```

Figure 1.2: Caption example of JS code

Method	Data to encode	Encoded data
RLE 1	*babaaaaabbbaabbbba11aaa*	*1b1a1b5a 3b2a4b1a 213a*
RLE 2	*babaaaaabbbaabbbba11aaa*	*bab@5a@3 baa@4ba1 1@3a*

Table 1.1: Caption label 1

1	2	3
4	5	6
7	8	9

Table 1.2: Caption label 2

NEC natoque penatibus,

Venenatis enim justo rhoncus.

1. Sociis natoque penatibus

- In enim justo, rhoncus ut imperdiet a venenatis.

Chapter 2

Analysis of the previous project

adfgsd fgdfg[1] sdfsd[2] sdfsd[3]

Conclusion

Conclusion. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce eget lacus sodales, hendrerit leo a, fringilla sapien. Proin ac interdum nisi. Vestibulum vel hendrerit elit. Sed tincidunt finibus rhoncus. Etiam consectetur ipsum arcu, ac elementum ipsum hendrerit vitae. Morbi vitae rhoncus nulla. Proin ac vestibulum diam. Vestibulum sagittis ultricies mi, ut dapibus mi consectetur non.

Bibliography

[1] Valenta, M. Posudek oponenta závěrečné práce. 2020, [Cited 2021-10-24]. Available from: https://dspace.cvut.cz/bitstream/handle/10467/86181/F8-BP-2020-posudek-Suchanek_Marek.pdf?sequence=-1&isAllowed=y

[2] Basic Features: Data Fetching | Next.js. Available from: https://nextjs.org/docs/basic-features/data-fetching

[3] Microsoft. TypeScript is JavaScript with syntax for types. 2021, [Cited 2021-10-24]. Available from: https://www.typescriptlang.org

[4] Powel, M. The Canterbury Corpus [online]. November 2001, [Cited 2011-10-12]. Available from: http://corpus.canterbury.ac.nz/index.html

Appendix A

Acronyms

MSA microservices architecture.

Appendix **B**

Contents of media

A visualisation of the content of enclosed media.

```
README.txt ..... the file with description
src ..... the directory of source codes
    applications ..... the directory of source codes of applications
    thesis ..... the directory of source codes of the thesis
text ..... the thesis text directory
    thesis.pdf ..... the thesis in PDF format
resources ..... the directory of additional resources
```