

NORWEGIAN UNIVERSITY OF
SCIENCE AND TECHNOLOGY

National Integration Platform for Citizen Centric eHealth in Norway

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Abstract

This report describes the design of the National Integration Platform (NIP) used for Citizen Centric eHealth in Norway. The NIP is a platform to collect different user generated eHealth data from third party solutions and services. It also describes the making of the working prototype. The challenges of this prototype is to demonstrate the transfer of personal and/or medical data from different devices and systems. The intention of the platform is to enable citizens the ability to publish information they produce into the government run NIP. It is worth noting that security is not a requirement of the prototype. To demonstrate these different parts the creation of an Android application (App), a web App and a back-end Application Programming Interface (API) was required.

The motivation for working in this project is to innovate and create a new platform that can be used to better understand the health of citizens. The citizens gather various health data from different locations and devices and in return provide a better understanding of the citizens health. Together with educated health professionals and doctors this can be a powerful tool for improving the quality of life of the users. The most interesting part was to figure out how to design a system that can have the high level of security required to transfer personal health information.

The demands were to plan, design and describe the NIP and to develop a prototype. The demonstration of this product is aimed mainly at two groups of people: 1. Educated health professionals 2. Developers The product should have a demonstration side that is easy for the first group to grasp, understand and form an idea of how it will work while also making it appealing and technical for the second group.

The result of this project is first and foremost a working prototype of a NIP. It is also a web App and an Android app to make the demonstration easier to grasp. This report is also part of the result which has the purpose of documenting the problem, the process, the workflow and the final products.

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Abbreviations

API	A pplication P rogramming I nterface
App	A pplication
LAH	L ist A bbreviations H ere
NIP	N ational I ntegration P latform

Chapter 1

Introduction

1.1 Project description

1.2 The client

helsedirektoratet

1.3 Involved parties

Us and the supervisor. two tables would look neat

1.4 Problem domain

some text

1.5 Project drivers

people

1.6 Available resources

1.7 Limitations

1.8 Duration

Chapter 2

Project management

2.1 Planning

2.1.1 Work plan

2.1.2 Resources

2.1.3 Limitations

2.1.4 Milestones

2.1.5 Tools

IDE, github, google drive and so on

2.2 Organization

2.2.1 Roles

2.2.2 Weekly schedule

2.3 Quality assurance

2.3.1 Templates

2.3.2 Customer relations

2.3.3 Supervisor relations

2.4 Risk management

Chapter 3

Preliminary study

3.1 Main Section 1

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Chapter 4

Requirements specification

4.1 Funcional requirements

4.2 Non-funcional requirements

4.2.1 Quality requirements

4.2.2

4.3 Use cases

Chapter 5

System architecture

5.1 Overview

5.2 NIPEN

5.3 Front-end

5.4 Heart rate

5.5 Weight

Chapter 6

Sprint 0

6.1 Planning

what we planned to do shall we include some data from scrumdo? definitely a chart..

6.2 Duration

6.3 Goals

what did we expect to achieve by the end of this sprint (general progress in the project)

6.4 Feedback

from customer, from supervisor

6.5 Problems

6.6 Evaluation

our thoughts about this sprint

Chapter 7

Sprint 1

7.1 Planning

what we planned to do shall we include some data from scrumdo? definitely a chart..

7.1.1 Expected results

what did we expect to achieve by the end of this sprint (general progress in the project)

7.2 Feedback

from customer, from supervisor

7.3 Evaluation

our thoughts about this sprint

Chapter 8

Sprint 2

8.1 Planning

what we planned to do shall we include some data from scrumdo? definitely a chart..

8.1.1 Expected results

what did we expect to achieve by the end of this sprint (general progress in the project)

8.2 Feedback

from customer, from supervisor

8.3 Evaluation

our thoughts about this sprint

Chapter 9

Sprint 3

9.1 Planning

what we planned to do shall we include some data from scrumdo? definitely a chart..

9.1.1 Expected results

what did we expect to achieve by the end of this sprint (general progress in the project)

9.2 Feedback

from customer, from supervisor

9.3 Evaluation

our thoughts about this sprint

Chapter 10

Sprint 4

10.1 Planning

what we planned to do shall we include some data from scrumdo? definitely a chart..

10.1.1 Expected results

what did we expect to achieve by the end of this sprint (general progress in the project)

10.2 Feedback

from customer, from supervisor

10.3 Evaluation

our thoughts about this sprint

Chapter 11

Sprint 5

11.1 Planning

what we planned to do shall we include some data from scrumdo? definitely a chart..

11.1.1 Expected results

what did we expect to achieve by the end of this sprint (general progress in the project)

11.2 Feedback

from customer, from supervisor

11.3 Evaluation

our thoughts about this sprint

Chapter 12

Testing

12.1 Main Section 1

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Chapter 13

Conclusion and further work

13.1 Main Section 1

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Chapter 14

Reflection

14.1 Main Section 1

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Appendix A

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