Norwegian University of Science and Technology

National Integration Platform for Citizen Centric eHealth in Norway

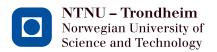
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Abstract

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.

Preface

This report is for the main project in the course TDT4290 Customer Driven Project at NTNU.

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Abbreviations

API Application Programming Interface

App Application

NIP National Integration Platform

NTNU Norges Teknisk-Naturvitenskalige Universitet i T

Norwegian University of Science and Technology

Introduction

- 1.1 Project description
- 1.2 The client

helse direktoratet

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

Project management

0 1	T) I	•
2.1	Pla	nning

- 2.1.1 Work plan
- 2.1.2 Resources
- 2.1.3 Limitations
- 2.1.4 Milestones

2.1.5 Tool selection

This section will describe the different tools we used during this course

Git and GitHub "Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency." [bib]http://git-scm.com/

Sublime Text

Intelijei IDE

Google Docs

Apache Maven

Travis CI

Latex

Balsamiq Mockups

Lucid chart

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

Preliminary study

3.1 Main Section 1

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3.2 Main Section 2

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Requirements specification

- 4.1 Funcional requirements
- 4.2 Non-funcional requirements
- 4.2.1 Quality requirements
- 4.2.2
- 4.3 Use cases

System architecture

- 5.1 Overview
- 5.2 NIPEN
- 5.3 Front-end
- 5.4 Heart rate
- 5.5 Weight

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

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

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

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

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

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

Testing

12.1 Main Section 1

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Conclusion and further work

13.1 Main Section 1

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Reflection

14.1 Main Section 1

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Appendix A

Appendix Title Here

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