

CFS Pacing Program

Design Specification

Author: Mlm Small

ID: Mrs12

Supervisor: Praboda Rajapaksha

ID: Prr16

Degree Scheme: G40F

Degree Scheme Title: Computer Science

Module: CS39440

Version: 0.2 (draft)

Contents

1	Introduction	2
1.1	Purpose	2
1.2	Scope	2
1.3	Objectives	2
2	The Problem Space	3
2.1	Context Diagram	3
3	stakeholders	4
3.1	Stakeholder diagram	4
4	requirements	6
5	function means analysis	6
6	System design and architecture	6
7	bibliography	6
8	version history	6

1 Introduction

1.1 Purpose

The purpose of this document is to distill requirements for the project from stakeholders, and to create a design based off of those requirements.

1.2 Scope

This document will cover parts of both the planning and the design phase, and will be edited frequently as there are many small planning phases in an agile development environment.

1.3 Objectives

The objectives of this document are to:

- Define the problem space
- Define the stakeholders
- Define the requirements
- Create a rough design
- Define the final design

2 The Problem Space

The CFS pacing app is intended to help people with chronic fatigue syndrome manage their energy levels throughout the day and recognise patterns in their energy fluctuations [1].

–more description here–

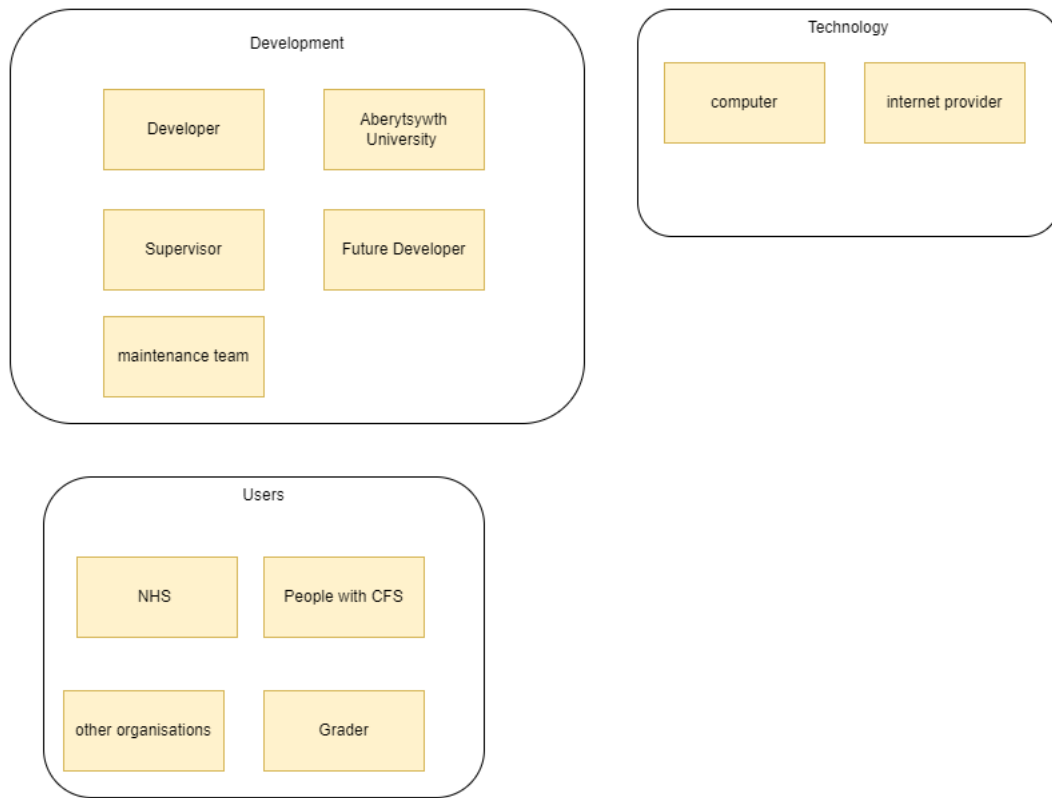
2.1 Context Diagram

–insert diagram here–

3 stakeholders

3.1 Stakeholder diagram

This stakeholder diagram was created following the instructions from Burge Hughes Walsh [2].



!!Note

to self- maybe reorganise groups so order is in an aberystwyth university group ?

In this stakeholder diagram we can see three groups: development, technology, and users.

In development there is clearly the developer, in this case myself, Mim Small, a computer science undergraduate. My supervisor is Dr Rajapaksha, a lecturer in Health Data Science. Aberystwyth University is where I am studying my degree.

Future Developers and a Maintenance Team are theoretical stakeholders- once the software is published they would work to maintain it or develop it further.

The NHS could have an interest in this project, as it is their job to help treat people with CFS. People with CFS themselves will be interested in this project as this project is

intended to help them. Anyone can get CFS (source!!) so it is difficult to narrow down this group further.

Other organisations such as Action for ME (source!!) and The ME Association (source!!) might also have an interest in this project as it directly ties into what they are working for.

The Grader is the unknown person who will mark this project, and is in a way a user as they will have to see the project in action to be able to grade it.

The computer is a stakeholder in so much as it will need to run the software. If the application is web based then the internet provider will need to provide access to it, and if not then the oninternet will need to provide a download to it. [explain this better!!!!]

4 requirements

5 function means analysis

6 System design and architecture

7 bibliography

8 version history

Version	Author	Date	Description
0.1	Mrs12	02/02/2024	Document Created
0.2	Mrs12	02/02/2024	Draft of introduction written and stakeholder map draft added

Table 1: Version history