MEDICAL MANAGEMENT ANDROID APPLICATION

By

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Declaration

I herby certify that this material, which I now submit for assessment on the programme of study leading to the award of **Bachelor of Science(Honours) in Computing** in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated, and has not been submitted for assessment for an academic purpose at this or any other academic institution other than in partial fulfillment of the requirements of that stated above.

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Abstract

The section outlines the contents of the thesis.

Acknowledgements

In this section I will thank everyone who helped me with my project including my supervisor Stephen O'Shaughnessy.

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Abbreviations

Chapter 1

Introduction

In this chapter I discuss the background of the project and my reasoning for doing the project. I will outline the problems to be solved, and the project aims and objectives.

1.1 Guide

In this section I will talk about what is going to take place.

1.2 Development and Task goals

In this section I will talk about what I will be developing and my goals.

1.3 Why choose this project?

In this section I will talk about why I chose this project.

1.4 Problem Statement

In this section I will outline the problem my project intends to fix.

1.5 Aims and Objectives

In this section I will talk about my aims and objectives.

1.6 Benfits of this Project

In this section I will discuss how my project can help benefit the world.

Chapter 2

Literature Review

In this chapter I will conduct a detailed evaluation of research that has been done relating to android applications for medical purposes.

2.1 Abstract

This will outline what the paper entails.

2.2 Introduction

I will give a short introduction on the main research topics.

2.3 What is an Android application?

I will talk about what android applications are.

2.4 Why develop and Android application?

I will talk about why we should choose android over other mobile operating systems.

2.5 What makes a good Android application?

I will talk about good practices which help us create good applications.

2.6 Android Application for medical management purposes

I will talk about the growth of android applications in the medical field and examples of applications implemented in the medical field.

2.7 Securing user sensitive data in an Android application

I will talk about the security vulnerabilities of android security and solutions.

2.8 Conclusion

I will conclude all of the research and talk about my findings.

Chapter 3

System Analysis

In this chapter I will talk about what the application is going to do.

3.1 Functional Requirements

This section should describe the functionality of the application. It should serve as a checklist that I can reference at all stages of the project.

3.1.1 Use Case Diagram

In this section I will create a Use Case diagram with text descriptions.

3.2 Data Requirements

This section should contain an overview of the entities and the data in the system.

3.2.1 Entity Relationship Diagram

Insert an entity relationship diagram that contains entities, their attributes, and their relationships with eachother.

Chapter 4

System Design

This chapter will describe how the application will be implemented and it's design.

4.1 User Interface Design

This chapter should talk about why the proposed interface is suitable and supports each of the use cases specified in the analysis chapter.

4.1.1 WireFraming

Sketches of what the user interface will look like.

4.2 Functional Design

This section should model the structure of each component in the system and how they interact with one another.

4.2.1 Diagrams

An Interaction diagram will be helpful to illustrate the interaction between the components.

4.3 Data Design

This section will contain a detailed design of the data storage components theat will be present in the application.

4.3.1 Diagrams

Contain normalised database tables.

Chapter 5

Implementation of the system

This chapter will talk about how the application was implemented based on the design.

5.1 Implementation steps

This section will contain all of the steps involved in the implementation of the application.

Chapter 6

Testing and evaluation

This chapter will discuss test plans, test results, user evaluations and discussion of these results.

6.1 Functional correctness

This section will contain the set of tasks the application will be able to perform.

6.2 Usability

This section should list the usability requirements.

6.2.1 Usability requirements

These are sets of tasks the user should be able to perform.

Chapter 7

Conclusion

In this chapter I will review the project against the problem definition, and aims and objectives. I will determine how successuful the project was by evaluating the results.

7.1 Suggestions

In this section I will talk about suggestions for further work.

Bibliography

Nicky Randles. References are brought in from bib file 'bibliography.bib'. Dublin, Ireland, 2015. Institute of Technology, Blanchardstown.

Appendices

Appendix A
Project Planning

In this section I will critically evaluate the project planning. If it doesn't go well I will discuss how it could have been improved upon.

Appendix B
Project Diary

In this section I will enter my project diary.

Appendix C
Program listings

In this section I will enter code fragments and algorithms which are important.

Randles (2015)