

Family Doctor Requirements Specification

Version 1.0

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Version History

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V01	Initial/Modification of document	Cristina Marina	27 February, 2017
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1. Introduction

The application is written in Java and is designated for a family doctor to manage his patients.

1.1.Purpose

The “Family doctor” allows the user to add a new patient, a new consultation for a patient and allows the doctor to filter the patients by diagnostic, in descending order by the number of consultations in the last year.

1.2.Scope

The scope of the document is to give information about the system: regarding the users, functionalities, purpose, usability, data management and user scenarios.

1.3. Definitions, Acronyms, and Abbreviations

1.4. Document Overview

The document is organized in chapters and subchapters describing the general purpose and scope of the document, the product description and requirements such as functional and user interface requirements.

2. Product/Service Description

The “Family doctor” allows the user to add a new patient, a new consultation for a patient and allows the doctor to filter the patients by diagnostic, in descending order by the number of consultations in the last year.

2.1.Product Context

The product is independent and self-contained.

2.2.User Characteristics

Users that will be using this product are doctors. The doctor should have experience and domain-related knowledge for introducing a diagnostic and prescription drugs. Experience using a computer is also needed.

3. Requirements

1. Adding a new patient into the system.

The user has to enter the SSN, name and address of the patient to be added. All of them are stored as strings. The program should also store a unique id for each patient. All of the fields should be validated. The SSN has to contain only digits and has to have the length equal to 13. The name and address should not be null. The patients have to be stored in a text file.

2. Adding a new consultation

The user has to enter the SSN of the patient, an unique id for the consultation, diagnosis, medication and date of the consultation. All of them are stored as strings. All of the fields should be validated. The fields should not be empty and the patient has to be stored into the system.

3. Filtering the consultations

The user has to enter the disease as a string. The disease should not be empty. The program has to return the list of patients with the given disease, sorted by the number of consultations in the past year.

3.1. Functional Requirements

List the functional requirements (FR) of the system.

Section/ Requirement ID	Requirement Definition
FR1.0	Add a new patient.
FR1.1	Add a new consultation for a patient.
FR2.0	List the patients that have a certain disease, in descending order by the number of consultations.

3.2. User Interface Requirements

The user should be presented a menu where each option is describing one of the functional requirements. After choosing an option the program should ask the user to enter the needed information.

3.3. Usability

- The user documentation and help should be complete
- The help should be context sensitive and explain how to achieve common tasks
- The system should be easy to learn

3.4. Data Management

The data should be stored in two different text files, a text file for storing the patients and a text file for storing the consultations.

4. User Scenarios/Use Cases

The “Family doctor” allows the user to add a new patient, a new consultation for a patient and allows the doctor to filter the patients by diagnostic, in descending order by the number of consultations in the last year.

Please refer to Analysis and Design Document.