

Health Calendar

Software Requirements Specification

Version 1

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Revision History

Date	Description	Author	Comments
18.10.2020	Version 1	Kirill Kandel	First Revision

Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date
	Kirill Kandel	Lead Software Eng.	

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1. Introduction

1.1 Purpose

The purpose of this document is to build an online system to manage the meds to ease the treatment process. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system.

1.2 Scope

The purpose of the online system for managing the meds is to ease the treatment process and to create a convenient and easy-to-use application for sick people who take meds and can't remember the schedule. The system is based on a relational database with its meds management and notification functions. We will have a database server supporting hundreds of major meds as well as the ability to add user's ones. Above all, we hope to provide a comfortable user experience along with the best pricing available.

1.3 Definitions, Acronyms, and Abbreviations

This document uses the following conventions. DB –database. ER – entity relationships. DDB – distributed database.

DB	Database
ER	Entity relationships
DDB	Distributed database
User	Reviewer or author
Editor	Admin
Software Requirements Specification	A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document.

1.4 References

IEEE. *IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements*

Specifications. IEEE Computer Society, 1998.

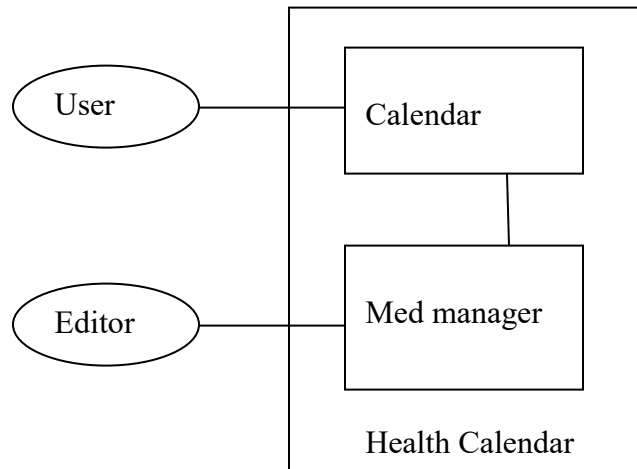
1.5 Overview

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product. Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

2. General Description

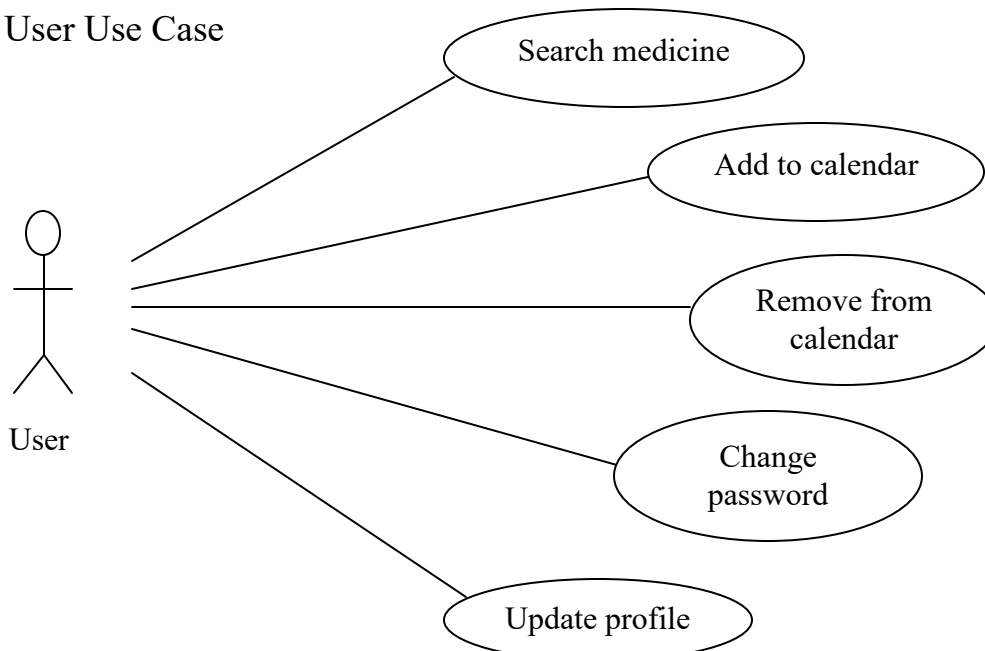
2.1 System environment



The Health Calendar System has two active actors and one cooperating system. The User accesses the Calendar through the Internet. The Editor accesses the database of a system using the Internet or locally.

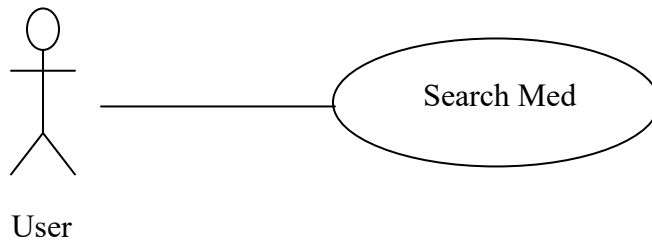
2.2 Product Functions

2.2.1 User Use Case



Use case: **Search Medicine**

Diagram:



Brief Description

The user accesses the Health Calendar Website and searches for the med by different filters

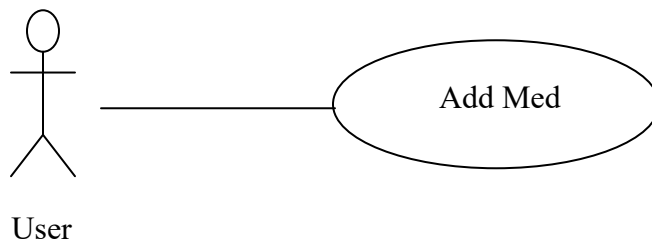
Initial Step-By-Step Description

Before this use case can be initiated, the User has already accessed the Health Calendar Website.

1. The User chooses to search by name, category, or keyword.
2. The system displays the choices to the User.
3. The User selects the medicine desired.
4. The system presents the information about the med to the reader.
5. The Reader chooses to add the med.
6. The system adds the requested med

Use case: **Search Medicine**

Diagram:



Brief Description

The user accesses the Health Calendar Website, searches for the medicine and adds it to his/her calendar.

Initial Step-By-Step Description

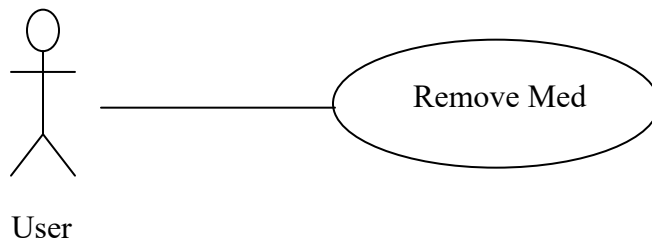
Before this use case can be initiated, the User has already accessed the Health Calendar Website.

- 1 The User chooses to search by name, category, or keyword.
- 2 The system displays the choices to the User.
- 3 The User selects the medicine desired.

- 4 The system presents the information about the med to the reader.
- 5 The Reader chooses to add the med.
- 6 The system adds the requested med to calendar

Use case: **Search Medicine**

Diagram:



Brief Description

The user accesses the Health Calendar Website, enters his/her calendar and removes the medicine.

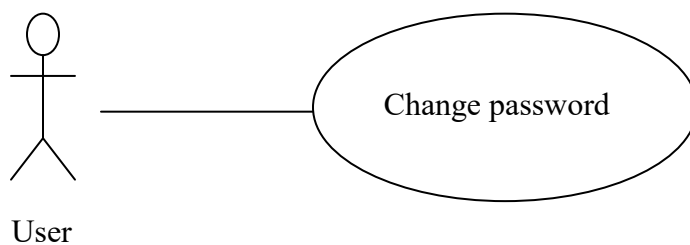
Initial Step-By-Step Description

Before this use case can be initiated, the User has already accessed the Health Calendar Website and opens his calendar.

1. The User searches the med by name
2. The system displays results to the User.
3. The User clicks remove button right to the selected medicine.
4. The system removes the med from the user calendar.

Use case: **Search Medicine**

Diagram:



Brief Description

The user accesses the Health Calendar Website, enters his/her profile and changes the password

Initial Step-By-Step Description

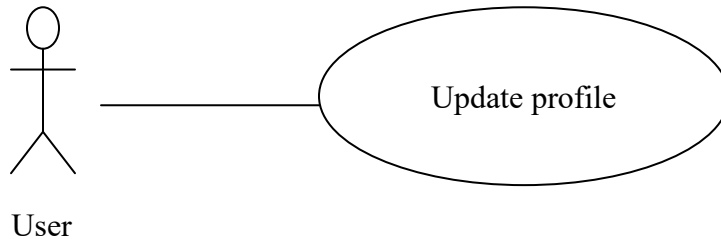
Before this use case can be initiated, the User has already accessed the Health Calendar Website.

Health Calendar

1. The User enters profile page.
2. The system displays user's profile.
3. The User clicks change password button.
4. The system displays change password form.
5. The User fills the form and clicks save.
6. The system saves changes and redirects to login page.

Use case: **Search Medicine**

Diagram:



Brief Description

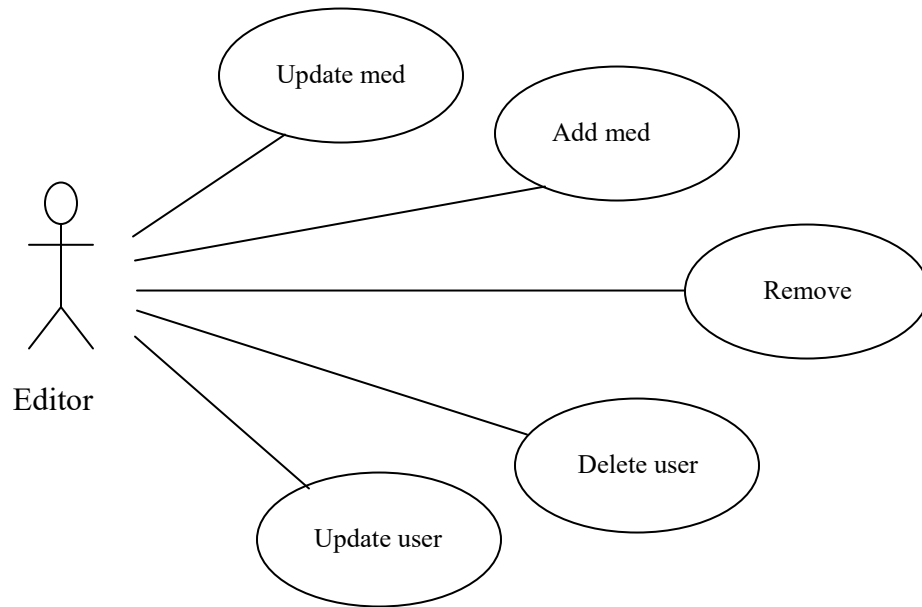
The user accesses the Health Calendar Website, enters his/her profile and updates information

Initial Step-By-Step Description

Before this use case can be initiated, the User has already accessed the Health Calendar Website.

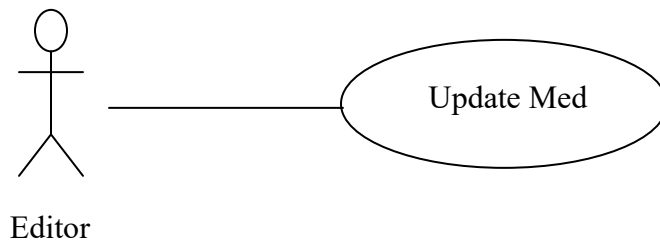
1. The User enters profile page.
2. The system displays user's profile.
3. The User clicks update button.
4. The system makes fields changeable.
5. The User changes necessary fields and clicks save.
6. The system saves changes and makes fields non changeable.

2.2.2 Editor Use Case



Use case: **Update Medicine**

Diagram:



Brief Description

The Editor chooses a medicine and access additional information. There is an edit button which allows change information about the medicine.

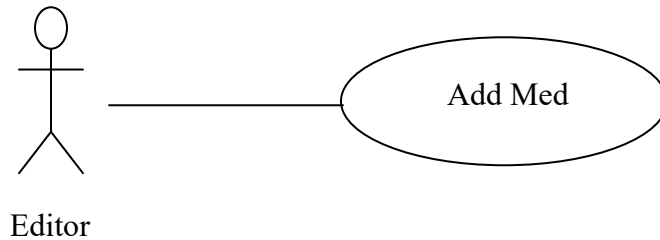
Initial Step-By-Step Description

Before this use case can be initiated, the Editor has already accessed the Website.

1. The Editor chooses searches a medicine.
2. The system displays the choices to the Editor.
3. The Editor selects the medicine desired.
4. The system presents the information about the med to the reader.
5. The Editor chooses to edit the med.
6. The system makes all fields changeable
7. The Editor changes the information and clicks save.
8. The system updates the information.

Use case: **Add Medicine**

Diagram:



Brief Description

The Editor accesses the Website, enters the search page and adds a new medicine.

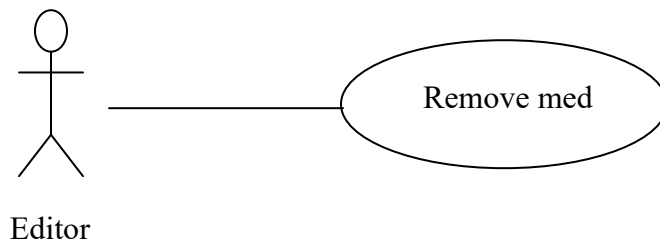
Initial Step-By-Step Description

Before this use case can be initiated, the Editor has already accessed the Website.

1. The Editor enters the search page and clicks add button.
2. The system displays a form.
3. The Editor fills the data and clicks save.
4. The system saves the med and adds it to the database.

Use case: **Remove Medicine**

Diagram:



Brief Description

The editor accesses the Website, searches for an medicine and removes it.

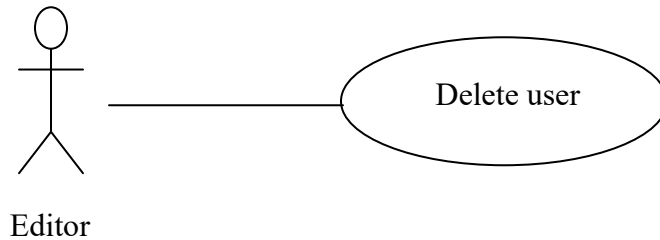
Initial Step-By-Step Description

Before this use case can be initiated, the Editor has already accessed the Website.

1. The Editor chooses to search by name, category, or keyword.
2. The system displays the choices to the Editor.
3. The Editor selects the medicine desired.
4. The system presents the information about the med to the reader.
5. The Editor clicks remove button.
6. The system removes the requested med.

Use case: **Delete User**

Diagram:



Brief Description

The Editor accesses the Website, enters users' page and remove the user

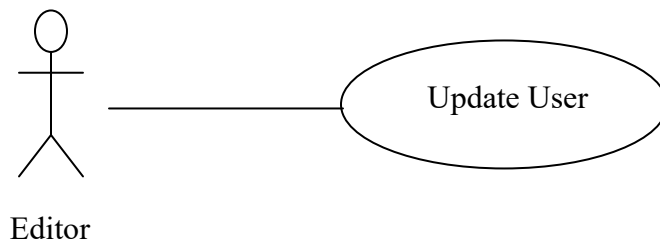
Initial Step-By-Step Description

Before this use case can be initiated, the Editor has already accessed the Website and goes to the users' page.

1. The Editor searches the user by name or chooses from the list.
2. The system displays choices to the Editor.
3. The Editor clicks the remove button right to the desired user.
4. The system removes the user.

Use case: **Update User**

Diagram:



Brief Description

The Editor accesses the Website, enters users' page and updates the user

Initial Step-By-Step Description

Before this use case can be initiated, the Editor has already accessed the Website and goes to the users' page.

1. The Editor searches the user by name or chooses from the list.
2. The system displays the choices to the Editor.
3. The Editor clicks the edit button right to the desired user.
4. The system displays the form with user information.

5. The Editor updates the form and clicks save.
6. The system saves changes to the user.

2.3 User Characteristics

The User is expected to be Internet literate and be able to use a search engine. The main screen of the Health Calendar Website will have link to the profile, search and Calendar pages.

The Editor is expected to be Windows literate and to be able to use button, pull-down menus, and similar tools.

2.4 General Constraints

The Health Calendar will be on a server with high speed Internet capability. The physical machine to be used will be determined by the architect. The software developed here assumes the use of a tool such as Tomcat for connection between the Web pages and the database. The speed of the User's connection will depend on the hardware used rather than characteristics of this system.

The Article Manager will run on the editor's PC and will contain an Access database. Access is already installed on this computer and is a Windows operating system.

3. Specific Requirements

3.1 Functional Requirements

Login	Input user login and password
Password reset	input user email address, input security code from email
Logout	button at the right top corner
Update user	form with user info
Update password	form with (old password, new password, repeat password) fields
Remove user	form with password and confirmation window
Add medicine	form with fields
Remove medicine	confirmation window

3.2 Non-Functional Requirements

3.2.1 Security

The server on which the Health Calendar resides will have its own security to prevent unauthorized *write/delete* access. There is no restriction on *read* access. The use of email by the User is on the client systems and thus is external to the system.

The PC on which the Medical Manager resides will have its own security. Only the Editor will have physical access to the machine and the program on it. There is no special protection built into this system other than to provide the editor with *write* access to the Health Calendar to add medicines.

3.1.1 Maintainability

System will have regular updates that fix bugs and performance improvements. Besides that could be added new features.

3.1.2 Portability

System targets wide range of devices:

- Android
- IOS
- Windows
- Linux

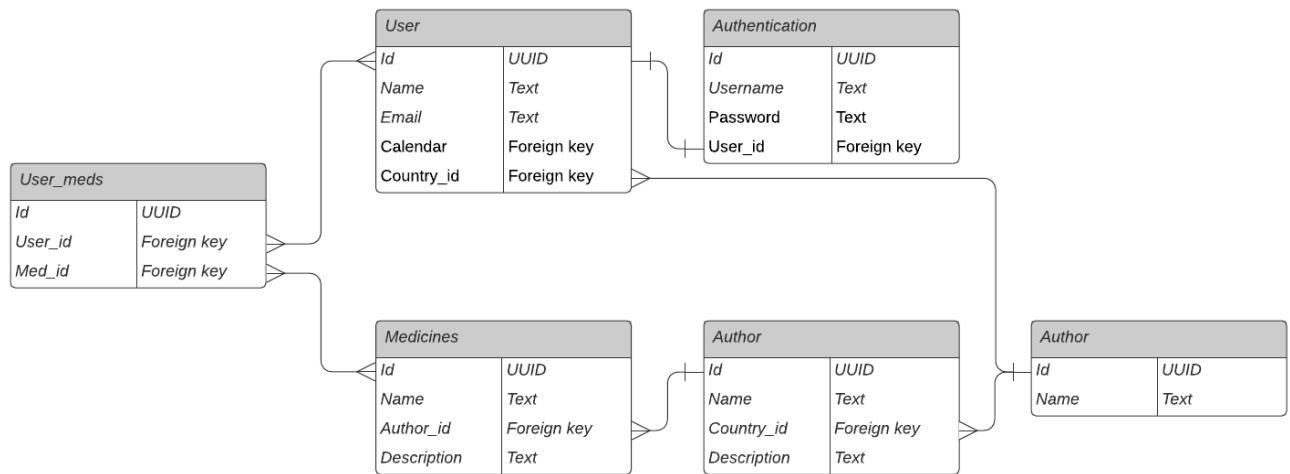
3.1.3 Availability

This is a public website. It can be accessed by the Internet.

3.1.4 Performance

Speed of system execution depends mostly on Internet connection and server processor.

3.2 Logical Database Requirements



4. Change Management Process

During the project development any requirements changes should be displayed in this document. Rights to change this document has senior, architect and project manager. The right for submitting has only a product owner.