**Software Requirements Specifications**

**For**

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**HEALTHCA**

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# **1. Introduction**

SRS means Software Requirements Specifications, which is a document that describes what the software will do and how it will be expected to perform. An SRS is the framework that every team will follow to involved in the software development. Using the SRS helps to ensure requirements are fulfilled providing critical information to multiple teams.

# **1.1 Purpose**

The purpose of our software is to care about our health. Healthca is an overall health care app which will give us which desease I am detect on and a general description about our health condition. It's an app for those who want to know which desease they detect on and for those who want to know thier health condition and want to touch with the doctor or the health instructor. This app also include the health news which helps all the customer/user to know all the current health news. Also this app includes one of a unique feature and that is condition library which helps all the customers/users to know all the description about all the common desease's. Finally we can tell that this app is a health care center or a desease detector with some great health care features which helps all the peaple to know about thier body and take care of thier health. In a current world, we see a lot of peaple don't actually take care of thier health , some of them don't even detect thier desease for a long time and then after some years, they get infected with many big diseases. So we all should take care of our health every time so that we can live happily.

And we as a team or the "Healthca" proudly say to all the peaple that we can help you to organize your health.

# **1.2 Intended Audience and Reading Suggesitons**

The document is intended for requirements engineer, developers, project managers, marketing staff, users, testers, and documentation writers. Also this project can be a prototype for any health care app developers so this paper can be show to them also because we want to build more and more health care software so that anyone can take care of thier health and it's our responsibility.

And those who want to know all the information about this app , it is highly recommended to read this paper because we input all of the main or basic information about the app in this paper. For reading this paper we can suggest you to read this paper from the cover page and then the introduction and the rest.

# **1.3 Project Scope**

Project scope is the part of project planning that involves so many things from the project and it includes the project goals, the benefits, long term plan and many more. Here we discuss those things, such as:

**1) Benefits:** We the "Healthca" app is a health care center for all the peaple who want to take care of themselves. After using this app you can benefitted in many ways, like

• You can detect your desease and after detecting you can see all the information about the desease and also AI will suggest you the doctors for that desease, from your area

• You can see all the current health news and updated yourself with this changing world.

• You can see the condition library and know all the basic information about any desease and protect yourself.

**2) Goals:** The Healthca app is a modern app that will manage by the 4th revolutionary technology. We will use all the modern technology to give you a great service. But we also have some goals for future and after launching, we are gonna work for it. Such as,

• We want to raise the amount of features.

• We want to connect with more hospitals and doctors with us to give you a better service.

• Also we want to connect with the countries government to work with them and help all the people's very easily.

**3) Objectives:** We want to build a app that helps all the peaple to take care of their health and also organize themselves.

# **1.4 References**

[**https://drive.google.com/file/d/1EWA9SrJDiKGN355qSmaHgq52YgLpt7\_1/view?usp=sharing**](https://drive.google.com/file/d/1EWA9SrJDiKGN355qSmaHgq52YgLpt7_1/view?usp=sharing)

# **2. Overall Description**

# **2.1 Product Perspective**

We know this project comes from a problem which is very common to us and the problem is that in our country, most of the time we hear that a lot of people led their life with big disease but detect after long time and also many people usually don't care about their disease and they take medicine at their own thought. Also we see a lot of people detect the wrong disease from some undergraduate doctor or some random people and they believe them and take medicine from them. These are some common problems which we all know but we don't usually care about it. So basically this project comes from those problems and we as a team or "Healthca" are going to work for it.

Also we didn't see any of companies working on this idea.

**#Diagram**

# **2.2 Product features**

1) In this app, you can write down or speak to your assistant about your symptoms and artificially it will detect every disease that matches with your symptoms and it is going to give you some medical advice that can help you for some time.

2) You can see every doctor’s information or test information and know which doctor is going to perfect for those symptoms. After that you can also book an appointment for you or for the patient.

3) You can input your previous records, like if you are a smoker you can input that, also if you had high blood pressure, diabetes, heart problems, allergic problems, fever etc. you can give those feedbacks

4) In this app, you can see all the current news about health.

5) In this app, there is a condition library, that has a unique feature like you can see the most read articles by users you can also get to know about some disease. You can also see your last read article.

# **2.3 User classes and characteristics**

We know A “customer” is essentially the purchaser. They are the one giving us money. A “user” is the person actually using the software or product we're designing. In this section, we are going to talk about the users and their classes.

• **Frequency of use:** The users are going to use this app only when they feel unhealthy, or find some symptoms for a disease in their body. Even though if they feel any abnormality in their body they can talk to our AI based software.

**Subset of product function used:**

1) First of all if any users feel unhealthy, they are going to use only the 'disease tracker' option.

2) If the users want to know some health information or current news, they have to use the 'news' option.

3) If the users want to know some information about any specific disease like their risks, symptoms, treatment etc. They have to use the 'Condition library'.

• **Technical expertise:** Users have to know at least some basic knowledge about how to use any app or software and also they have to know how to input information to any app.

**• Privilege levels:** Our app or "Healthca" is a health care center. This app is for those people who want to take care of their health, who want to detect their disease easily. So these people will register our app and the limitation of users/customers are not limited, it's going to be unlimited for now but in future, if we want to limit our users/customers, we will do it. Our database administrator is going to be our team leader, MD Al Amin and he is going to organize data and he is going to make sure that data are available to users and secure from unauthorized access.

• **Educational levels:** There is no specific such things like everyone needs to be educate and they should have the basic English knowledge. And we think that’s more than enough for get used to with our software.

• **Experience:** There is no specific or hard things in this app. This is going to be a very easy app. But every user should experience at least some apps that has an easy UI and they should just have the knowledge of inputting information in software.

# **2.4 Operating Environment**

This app or "Healthca" is supported for all windows, IOS and android devices. Those who use these operators, can use this app "Healthca". Also the UI is going to basically same for all this operator but for each and every operator there will be some changes. It's just some UI change that shouldn't bother your while using the app. If you are a both IOS and android user, you won't have problems for this UI changes.

# **2.5 Design and Implementation Constraints**

# **2.6 User documentation**

**1)** **User manuals:** When you buy or install the app from particular store like play store, app store etc. any store, there is going to be a short and simple user manual like how you can use the app, or how you can input any information of yours.

**2) Online help:** In this app, there is going to be a help section where you can ask any of your questions to our AI assistant and they will answer your all questions and you can use the app very easily.

3) **Tutorials:** In every particular store which support IOS, android and windows, there is going to be a tutorial video and in the video you can see how to use the app like how to detect your disease, how to see the results, the news and also the condition library. Basically you can see all the things to use the app easily and it can help you out.

# **3. System Features**

**USE CASE ANALYSIS**

|  |  |  |
| --- | --- | --- |
| **Product’s feature**  **(external/overall features/activities)** | **Functional Features of system** | **Priority** |
| **Healthca:**  Disease identification | * System should identify the diseases based on symptoms * System should respond when users enters the symptoms of disease | High |
| Finding Doctor | * System should find out doctor for the particular disease * System GPS technology has to work properly for finding doctor | High |
| Providing health news | * System should provide regular news about any disease | Medium |
| Condition library | * System should show the most read health articles, last read articles. * System should provide some common disease details | Medium |
| AI support | * System should interact properly to the user while telling about symptoms | High |

# **4.1 User Interfaces**

"Healthca" or our app is a health related software which provides information about the various diseases on the basis of symptoms and reports. The user interface is very simple and easy to use. One of the specific guideline is every user should connect to the internet while using the disease tracker because disease tracker is controlling by the AI assistant, so internet connection is must. Also if you want to use the news and condition library, also every user will need internet connection. But every user can see their downloaded reports without the Internet connection.

# **4. External Interface Requirements**

# **4.2 Hardware Interfaces**

Healthca is an improved differential disease detector application, built for Android, OS and windows. It is a database driven application, which contains a lot of searchable data for many diseases. The database contains a lot of information related to each treatment condition and their symptoms. Users can use this application to search for brief information about diseases and create a list of possible diseases.

# **4.3 Software Interfaces**

Software interfaces: "Healthca" is a app that's going to support in android, OS and windows. Also in this software there is a lot to store, manage and change information. In this software, every user has to input their information like their email, name, also some personal data to login. Also every user has to input their health condition and their previous health records.

# **4.4 Communications Interfaces**

In this project we are decided to build a app and its name is “Healthca". So Healthca is a app that's going to be available in various app stores and app stores should support Android, OS and Windows only. Now it's not going to available as a website in various web browsers, but if we see that our app is capable for a website, and all the work in app is capable in a website, then we will be creating a website for this app and we will maintain both the app and website and it’s going to be support in all the safe web browsers like Google Chrome, Microsoft web browsers, Opera mini etc.

# **5. Other Nonfunctional Requirements**

# **5.1 Performance Requirements**

"Healthca" is a health care based app. And for sure Its service will be like a normal health based app. But we can ensure that it's going to be a very easy to use and its service will be very good and correct. But in some situations the app will perform differently,

like:

1) While updating the app, the app's going to be off for sometimes for update.

2) If you use this software in a less ram device, the app is going to be slow.

3) If your device has virus, the app may hang for sometimes.

4) While giving your information in the app, you have to be very careful because if you give wrong information or half information, the app is going to give you the wrong report, so you have to be very careful.

5) For install or buy this app, you have to have iOS, android or Window device, other than that, you won't be able to download this app.

# **5.2 Safety Requirements**

"Healthca" is going to be a software and all the software have some security requirements. For this app you have to maintain some things like:

1) While using this app, you should connect to the internet connection. You can only see the downloaded report in offline.

2) For using this app, you must have android, iOS or Window device because this app only supported to this operator.

3) If you want to see the exact report or the exact disease you have, you must have to give the right information about you, if you don't, app is going to give you the wrong report.

4) For using this app very easily, you may see the tutorials on the app stores, it may help you.

# **5.3 Software Quality Attributes**

1) Software Quality based

2) User friendliness

3) Usefulness