Android Patient Tracker

Vision

Version <1.0>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| <18/03/2018> | <1.0> | First attempt of writing the Vision document | Albert Erika-Timea |
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Vision

# Introduction

The purpose of this document is to collect, analyze and define the high-level needs and features of the **Android Patient Tracker,** helping us to think through and clarify our ideas gathered for the project. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist; it includes project background, list of possible users, stakeholders, occurrent risks, assumptions and constraints and it should outline a general view about the scope of the application to be developed.

The Vision document is supposed to set a base for designing the software mentioned above but it may be changed over time as new features or expectations appear.

[The purpose of this document is to collect, analyze, and define high-level needs and features of the <<System Name>>. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the <<System Name>> fulfills these needs are detailed in the use-case and supplementary specifications.]

[The introduction of the **Vision** document provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this **Vision** document.]

## Purpose

As mentioned before, this Vision document is supposed to collect, analyze and define the high-level needs and features of the **Android Patient Tracker;** it lays a foundation for the technical requirements. The Vision document’s purpose also includes to provide input to the process of approval regarding the project, from the customer’s point of view.

[Specify the purpose of this **Vision** document**.**]

## Scope

The scope of the Vision document is to define in a high-level view about the associated application (**Android Patient Tracker**). It not only influences the customer’s decision to accept the proposed solution, but also provides a basic guideline to the developers on how to start and evaluate the process of implementation. As the software is constantly changing, the document will change together with it.

[A brief description of the scope of this **Vision** document; what Project(s) it is associated with and anything else that is affected or influenced by this document.]

## Definitions, Acronyms, and Abbreviations

**APT –** Android Patient Tracker

[This subsection provides the definitions of all terms, acronyms, and abbreviations required to properly interpret the **Vision** document. This information may be provided by reference to the project’s Glossary.]

## References

<https://en.wikipedia.org/wiki/Vision_document>

<https://technet.microsoft.com/en-us/library/cc531016.aspx>

http://nevonprojects.com/android-patient-tracker/

[This subsection provides a complete list of all documents referenced elsewhere in the **Vision** document. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.]

## Overview

In the following, through this document, we enter in details about how we approach the problem and how we are going to fulfill the needs od the customer and the stakeholders.

[This subsection describes what the rest of the **Vision** document contains and explains how the document is organized.]

# Positioning

## Problem Statement

The problem being solved by this software is to allow medical workers to follow their patients’ data, including diagnostics, medical history, current medication etc.

[Provide a statement summarizing the problem being solved by this project. The following format may be used:]

|  |  |
| --- | --- |
| The problem of | medical workers having too many patients nowadays |
| affects | how the treatment process is handled in case of several patients |
| the impact of which is | that people may receive a medication that they do not need or their body produces an allergic reaction; in case of many the administrative work takes too long |
| a successful solution would be | to provide an application for these workers in order to ease up the access to patients’ data and keeping track of new people in need. |

## Product Position Statement

[Provide an overall statement summarizing, at the highest level, the unique position the product intends to fill in the marketplace. The following format may be used:]

|  |  |
| --- | --- |
| For | medical workers (doctors, nurses) |
| Who | are struggling with keeping track of numerous patients |
| The APT | is a lightweight mobile application |
| That | is aiming to shorten administration process and ease up keeping track of the treatment process. |
| Unlike | hand written registration papers and diagnosis sheets |
| Our product | Will be faster and more trustworthy as it does not get damaged with time. |

[A product position statement communicates the intent of the application and the importance of the project to all concerned personnel.]

# Stakeholder and User Descriptions

In case of this mentioned APT application we cannot really talk about people or a group owning significant percentages of the company’s shares but the ones who do not but they are still affected by its operations are quite numerous.

In this following section we not only mention the stakeholders of our system, but also the users, who need to interact with the developed software on a daily basis and many of them are accessing the same data set, possibly at the same time.

[To effectively provide products and services that meet your stakeholders’ and users' real needs, it is necessary to identify and involve all of the stakeholders as part of the Requirements Modeling process. You must also identify the users of the system and ensure that the stakeholder community adequately represents them. This section provides a profile of the stakeholders and users involved in the project, and the key problems that they perceive to be addressed by the proposed solution. It does not describe their specific requests or requirements as these are captured in a separate stakeholder requests artifact. Instead, it provides the background and justification for why the requirements are needed.]

## Stakeholder Summary

[There are a number of stakeholders with an interest in the development and not all of them are end users. Present a summary list of these non-user stakeholders. (The users are summarized in section 3.2.)]

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Patients | In the treatment procedure the patients are intensely involved. | The patients’ responsibility in order to have an accurate and trustworthy system is to provide real data about themselves that when introduced into the system can be taken for granted.  I[Summarize the stakeholder’s key responsibilities with regard to the system being developed; that is, their interest as a stakeholder. For example, this stakeholder:  ensures that the system will be maintainable  ensures that there will be a market demand for the product’s features  monitors the project’s progress  approves funding  and so forth] |

## User Summary

[Present a summary list of all identified users.]

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Doctors | Those users that are allowed to control the treatment of a patient | One doctor’s responsibility is to correctly introduce the data of a new patient, correctly introduce the diagnosis, the medication and always check it before applying anything new.  Only the doctor has the right to prescribe any new treatment or get rid of an existing one. | Patient |
| Nurses | Nurses can follow the treatment of a patient and help with it | The responsibility of a nurse is to follow the treatment prescribed by the doctor and do not change it.  They can also introduce new patients in the system as they are working at the emergency, administration desk or ambulance. | Patient |

## User Environment

The target user of the APT application is a general medical worker (doctor or nurse). The number of people entering this cathegory is quite numerous. If we suppose that a hospital is willing to make use of our system, all of its medical workers are possible users. Of course, the number of people using the application and the authorized users’ themselves are changing as well.

When we are talking about a task, its cycle depends on the task that is performed – if we talk about checking medication details it should be quick (around 5 minutes or less), signing in should take even less (30 seconds), entering a new client may be more (10-15 minutes depending on the case), checking medical history is also patient-dependent (for new patients it doesn’t take any time, for people treated for a long time it needs more – sometimes their situation also needs to be analyzed).

A unique characteristic of this application is that it can only operate on smartphones, specifically Android phones but it can be installed on any authorized user’s mobile device.

[Detail the working environment of the target user. Here are some suggestions:

Number of people involved in completing the task? Is this changing?

How long is a task cycle? Amount of time spent in each activity? Is this changing?

Any unique environmental constraints: mobile, outdoors, in-flight, and so on?

Which systems platforms are in use today? Future platforms?

What other applications are in use? Does your application need to integrate with them?

]

# Product Requirements

As mentioned before, from hardware point of view a smartphone is a must; the respective mobile device needs the Android operating system running on it. Since we are working with patient data, we need to store it in a potentially huge database that can be acessed by authorized users.When talking about authorization, the application requires a high security because personal data is being stored, visible by only those people who can be trusted with it. We expect that after a period of time not only the patients’ number will be increased, but also the number of users. These users need to perform quick operations, without failure so the application does not only need to be trustworthy but also very performant – we want to avoid those cases when a patient needs to be treated immediately after an accident but the medical employee cannot load in his/her medical history in time or accnot access the authorized region at all.

[At a high level, list applicable standards, hardware or platform requirements, performance requirements, and environmental requirements.]