**Software requirement specification**

**(SRS) document for “Lapmed” Project**

***1. Purpose:***

The purpose of this document is to present a detailed description of the

System, and define the amount of work, that will be going to be done during Perscholas Case Study, as well as future improvements and upgrades.

It will explain the purpose and features of the system, the

interfaces of the system, what the system will do, as well as how the logic of the system will be built.

This document is intended for both the stakeholders and the developers of the system.

**2) Specific requirements**

***2.1) Product perspective:***

In traditional approach patient must waste time, for searching specialist he needed, then contact reception – to verify availability, insurance accepting, and other information, including pricing, language.

Also, with tradition approach patient remain vague information about his diagnosis, medical procedures, and valuable information might be lost if he decided to transfer to different doctor in any place.

System will help to provide customer features to store all his medical info in one place, including his medical history, documents, his last visit dates, also customer might easy transfer to other doctor, or request “other opinion”, without losing any medical history information, valuable medical procedures results. Besides, it will provide to customer clear and understandable information about pricing, in case if customer want to pay out-of-pocket, and searching affordable Medical Care.

System would be able to provide for doctor’s tools, for promote their services to customers, and manage their schedule, placing available timeslot into system, also doctors might have access to patient’s medical history and fresh medical documents, to be able to prepare themselves, and easily keep track and provide services even for new patients.

***2.2) Functionalities to be performed as a part of Perscholas project:***

1. **As a Customer: Login/Signup – to store, upload and review my personal information.**
2. **As a Doctor: Login – to have features to read customers History, and documents uploaded.**
3. **As a Customer: Upload medical history documentation.**
4. **As a Doctor: Request willing to sign up, so our employee might check you and add to the system, as a provider.**
5. **As a doctor/prov: Check and download customers Medical History.**
6. **As a Customer and Doctor: edit you profile and personal info, including photo.**
7. **As an admin: Login – to have all requests from Doctors who willing to join to the system.**

**Diagram

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**3) Non-Functional Requirements:**

Those requirements which are not the functionalities of

a system but are the characteristics of a system are called the non-functionalities.

Every software system has some non-functionalities. Just fulfilling the requirements

of the user is not a good task, keeping the system accurate, easy to maintain,

reliable and secure is also a basic part of software engineering. Online Banking

System must have the following non-functional requirements so that I could be said

as a complete system.

***3.3.1 Performance:***

This system must be fit according to the performance wise. It should

use less memory and will be easily accessible by the user. Memory management

should be done wisely so that none of the memory part goes wasted.

***3.3.2) Maintainable:***

Each of the modules should be designed in such a way that a new

module can easily be integrated with it.

***3.3.3) Reliable:***

Each part of the application has to be reliable, and not has any errors.

***3.3.4) Testable:***

System has to be presented with the smallest part of it(modules), that test team might test it, while developers performing implementation with next module

**3) Other requirements**

***a) Hardware Requirements:***

As this system is an online Web-based application so a client

Server.

Computer systems will be needed by each of the user. And user

must be connected to the internet.

So, concisely following hardware will be needed.

1) Computer systems

2) Internet availability

***b) Safety and Security:***

This Project must be safe and secure because customers.

will directly put their personal info to the system. Software will have to

identify the valid customer according to his/her username and password.

It would need email confirmation code putting for extra security.

**4) Upgrades and future improvements:**

***4.1) Functionalities to be performed in future Upgrades:***

1. **As a Customer: Book an appointment for specific Doctor at available Timeslot.**
2. **As a Customer: Search doctor by: Specialization, City, State, Address, available time slots, Insurance accepting, Pricing.**
3. **As a Customer: Check your appointments history.**
4. **As a Customer: Add a payment information, for being able to pay through the page.**
5. **As a Customer: View what was prescribed and when.**
6. **As a doctor/prov: Download list of the customers, who booked an appt.**
7. **As a doctor/prov: Update your available timeslots.**
8. **As a Customer: Read last doctor recommendations.**
9. **As a Doctor: Put medical recommendations for the patient.**

***4.1.1) Dataflow Diagram for the Final Upgraded project with all features***

Diagram

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