**Title:** Requirement Specification of a Project.

* 1. **Step 1: Introduction**

Patient Support System (PSS) a software specially design for the patient and doctor which store medical information for future and help the both user with the stored information.

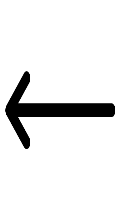
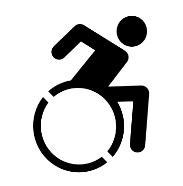
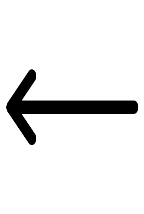
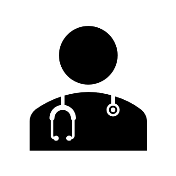
**Project scope**

The main purpose of PSS is supporting the patient digitally.

* 1. **Step 2: Overall Description**

**Product Perspective**

Patient support system is a new self-contained product. In figure 1.1, simple diagram shows the major component of the product.

Patient information

Doctor information

Generate hard copy

Show/update info

Fig:1.1

**Product Feature**

The major feature of the product is it can add, update, delete, search the information about doctor and patient. Both users can pull the data if needed. Patient can see the information about him such as doctor information, prescription etc. Same goes for the doctor they can see the patient information if needed. Patient also can generate a hard copy of his /her prescription.

**Operating Environment**

This product is based on JAVA and because of it this product can operate Linux, windows as well as Mac 32/64-bit devices if Java Development Kit is installed.

* 1. **Step 3: System Features**
  2. **Step 4: External Interface Requirements**

**User Interfaces**

The Product (PSS) using JAVA FX / SWING as interface between the software and the users. Java FX /SWING is an excellent choice for java-based software because it’s easy to understand and interreact with end user.

**Hardware Interfaces**

The supported device type for this product is 32- or 64-bit system, minimum 200 mb of Ram and 100mb of storage.

**Software Interfaces**

Our Product is using other third-party software such as MongoDB cloud Database as online database, Xamp Server MySQL as offline or online database, Java Swing /FX as GUI library, Java Reporting tools. The current operating environment is for our product is windows 64-bit system. Our product is written in JAVA so in future our product will support Linux and Mac environment.

**Communication Interface**

This product is using GET, POST, PATCH, DELETE as a HTTP protocol for fetch the data from online cloud database server.

**Performance Requirements**

● Response Time: The system provides acknowledgment in just one second once the & patients information is checked.

● Capacity: The system needs to support at least 1000 people at once.

● User-Interface: The user interface acknowledges within five seconds.

● Conformity: The system needs to ensure that the guidelines of the Microsoft

accessibilities are followed.

**Safety Requirements**

The user stored data is protected under strong encrypted cloud-based server so there is no possibility of any kind of data damage, hacking incident or data leakage.

**Security Requirements**

In order to maintain user privacy and any sort unauthorized access, this product is using a user login-based system so that specific user can access only specific data of user.

**Non-Functional**

**Requirements**

**Products Requirements**

**Process Requirements**

**External Requirements**

Interoperability Requirements

Ethical Requirements

Legislative Requirements

Privacy Requirements

Safety Requirements

Delivery Requirements

Implementation Requirements

Standards Requirements

Useability Requirements

Efficiency Requirements

Portability Requirements

Reliability Requirements

Performance Requirements

Space Requirements

Fig:Non –Functional Requirements of a System

1. **Implementation**
   1. **System requirements for Patient Support System**

* The system will be able to system which can easily store, retrieve and update data.
  1. **User requirements for Patient Management System**
* The system will be able to store, retrieve and update data automatically.
* The user(patient) would be able to see their data and print it out.
* The user (Doctor) would be able to see the other user data example: patient.
* The user (Admin) would be able to manipulate the doctorand patient data.
  1. **Non-Functional Requirements for Patient Management System**
* Efficiency
  + System will be able to perform in real time
* Validity Checking
  + It will show the valid information of all user
* Authenticity
  + System will serve the actual owner of the account
* Maintainability
  + Addition, Deletion and updating any requirements if possible.
* Reliability
  + This system will work 24/30/365