**CS330 Software Engineering**

**Software Requirements Specification (SRS) Template**

**Hospital Management System**

**Software Requirements Specification**

**Document**

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# 1. Introduction

## 1.1 Purpose

*Hospital management system is the most important part for Doctors. As test is the most important for knowing cause of any diseases. Besides maintaining other records of the hospital every year or after some time, the price of conducting tests changes, then it issues a list of prices of every test. Hence, software concerning Hospital Management should be well organized for its efficient working. So, this project is an attempt to relieve the burden of manual system by providing fully automated and a secure system. The function, which this system provides, is maintaining the records of the patient pertaining to his name, address, tests and tests results. The password system check allows only the authorized person to use the system in order to maintain the security of the system and if the user forgets his password then he can use his security question and password to enter the system.*

## 1.2 Scope

*This software is useful for all hospitals and clinics that are looking for an optimal solution to manage their working and help them organize themselves.*

## 1.3 Overview

Overall Description of the whole project is covered under section2 and a detailed specific requirements are described in section 3

# 2. The Overall Description

## 2.1 Product Perspective

In the proposed system, all the work done is computerized. All the Tests of the Patients are recorded in database through the computers. Because of maintenance of records we can easily identify each user. This System also provides the facilities of maintaining records of the Lab reports & Calculating Bills. The software will be general software which can be used on any computer system satisfying certain requirements.

### 2.1.1 System Interfaces

*Online SQL database*

### 2.1.2 Hardware Interfaces

1. *Intel Pentium IV.*
2. *128 RAM*
3. *Hard disk of 40 GB or more.*
4. *CD drive.*
5. *Mouse.*
6. *Colored monitor.*
7. *Keyboard.*
8. *Inkjet or laser printer.*
9. *Internet Connection*

### 2.1.3 Software Interfaces

1. *Unified Modeling Language: Rational Rose*
2. *Operating System: Windows XP*

## 2.2 Product Functions

1. *Maintain editable records for doctors and patients*
2. *Maintain records for booking appointments*
3. *provide simple interface to view records and add new staff/patients*

**2.3 Product Features**

* One Integrated View to Patients for Billing, Collection, Discharge Detail, Patient Medical History etc.
* Package supports Adaptability & Scalability of software making it more robust.
* General and Standardized Health Packages for the OPD and IPD Patients
* Authentication and verification of entries through Audit Trail Facility
* Easy Query Handling for instant decision of Bed Allocation for Patients, and request for the bed Transfers
* Effective Search facility to search any type of information related to Patient history
* Graphical Presentation of the Data for Top Management for analysis.
* Comprehensive Performance Reports.
* Built in Work Flow Management for all functional areas
* Multiple Store Accounting
* Interface facility with the Smart Card Technology
* Interface with Bar Code

## 2.4 User Characteristics

*Anyone with a basic knowledge of computers will be able to use this software.*

## 2.5 Constraints

1. Already Existing competition
2. Proper network connectivity
3. *Not fully automated*

# 3. Specific Requirements

## 3.1 External Interfaces

*An important factor in the proposed system is hardware. In hardware we describe the peripheral*

*devices that are attached to the system and from these devices we insert values as input to attain*

*output.*

*Mentioned below are the hardware used in this project:-*

1. *Intel Pentium IV.*
2. *128 RAM*
3. *Hard disk of 40 GB or more.*
4. *CD drive.*
5. *Mouse.*
6. *Colored monitor.*
7. *Keyboard.*
8. *Inkjet or laser printer.*
9. *Internet Connection*

## 3.2 Performance Requirements

1. *No transaction should be more than 2 seconds.*
2. *Backup servers should immediately fire up in case the primary server goes down within 5 minutes.*
3. *In case of increase in traffic extra servers should be there to scale up*

## 3.3 Logical Database Requirements

*Use of a SQL type database to maintain records*

## 3.4 Organizing the Specific Requirements

### 3.4.1 System Mode

*Single*

### 3.4.2 User Class

*Patients – book appointments with doctors*

*Admin – Register patients and doctors , access all records patients as well as doctors*

# Change Management Process

*E-mail communication with the maintainence team which shall be followed by a meeting or further online communication depending on the scale of change.*