

Software Requirements Specification

for

Hospital management system

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Vishwajeet Shukla	27-1-2017	User interface change	1.0.0

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1. Introduction

Technology is converging the globe onto a common platform with exponentially increasing dependency of mankind on automated systems. Increased working hours and stringent official deadlines compel people to spend majority of their time in office or while commuting.

Hospital Management System (HMS) is a powerful, flexible, and easy to use system, which is very helpful in a hospital environment, in order to maintain a hospital efficiently.

1.1 Purpose

Hospital Management System is designed for multi-specialty hospitals, to cover a wide range of hospital administration and management processes. The purpose of this application is to create the system of interactions between people, employees and doctors. The application is being developed taking into consideration the common working class of our society for whom time and leisure continue to be the main concern while they are at their respective work places.

1.2 Product Scope

It is an integrated end-to-end Hospital Management System (HMS) that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, in a seamless flow.

Application of the software is as mentioned under

- a) Easy registration process for patients and hospital officials.
- b) Easy gaze of doctors over patients situation
- c) Easy payment and caring processes.

2. Overall Description

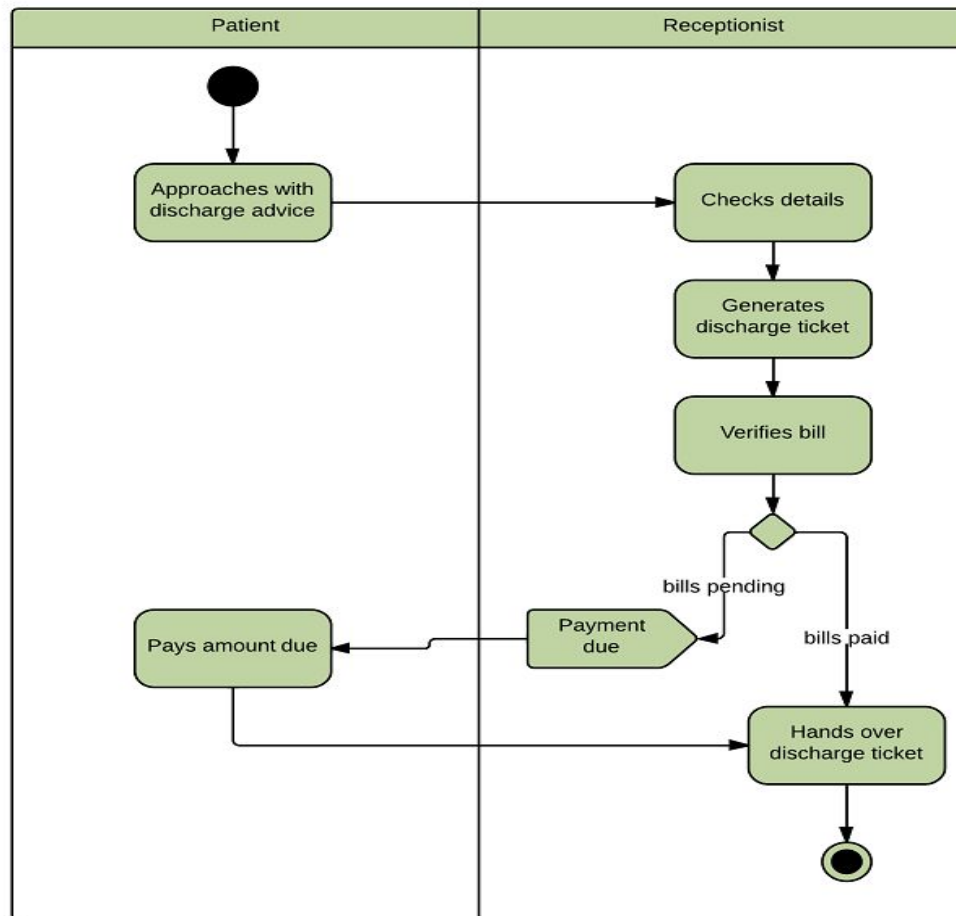
These are some of the product information.

2.1 Product Functions

The product has been created keeping in mind the requirements of patients, doctors and employees

Some of the functions are listed below

- a) Registration and information gathering for patients
- b) Registration and information access for doctors
- c) Registration and adequate information manipulation for employees



2.2 Operating Environment

The application will operate on a web server of the hospital.

- a) Any smartphone or computer with basic internet requirement can access the website.
- b) Any operating system including android below and above android kitkat 3.2.2 can access the website.

2.3 Design and implementation constraints

Patients can only access their information on logging into their account. Patients are not allowed to access other user information. Doctor can access all the users information . Employee with financial

Rights is only allowed to change payment related details.

3. External Interface Requirements

3.1 User Interfaces

User interface will display the graphics for registration, login and modification .well formatted graphics will be there for login and registration. There will be discrete and segregated components for patients , employees and doctors.

3.2 Software Interfaces

Data for payments of the patients and official dues will be redirected to their corresponding bank account using api integration for wallet with secure database of the server. Payment redirection if fails will restore the previous situation of the wallet of the patient.

3.3 Communications Interfaces

Specific alerts of the patient condition and medicine requirement will be sent directly to patients and guardian email in pdf form with FTP.

4. System Features

4.1 Registration and login

REQ-1: The registration requires the basic information of the applicant like name ,age e, gender ,blood group ,and previous records.

REQ-2: The information after login will be neatly displayed.

4.2 Deletion of account

REQ-1: User must provide valid username and unique id to delete his account.

REQ-2: Account with dues will not be allowed to be deleted

4.3 Modifying details

REQ-1: User must provide valid username and unique id to modify his account.

REQ-2: Sensitive details like payments and fixed parameters like blood group should not be

allowed to be modified.

4.4 Payment and dues

REQ-1: Only financial employee will be allowed to modify the payment details

REQ-2: Patient will be able to access his payment dues only.

4.5 Processing

Information will be stored immediately after providing correct details and it will be displayed after next login session.

4.6 Storage

Database will be unlimited storage for the storing of information of the user.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Data will be uploaded on a server with NO SQL , MYSQL and APACHE support
For quick and better performance of server.

5.2 Security Requirements

- a) Payments should follow only https protocol .
- b) Information like unique id and payment should be stored in databases after md5() or Sh1() hashing techniques.

5.3 Software Quality Attributes

Application must function on operating system with even low versions of operating systems like windows ,linux and android.

6. Other Requirements

Server database will upload the conversation and payment records on cloud storage with NOSQL of the server.