



HealthCare Management System

System Requirements Documentation



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1. SYSTEM REQUIREMENTS

A database management system is a platform that provides for improved methods of storing and accessing data whenever it is needed. Application programs facilitate the access to data. The system would provide information integrity by continuously syncing the information that has been entered. The system would always ensure that even when more than one person is performing an update operation on the database at the same time, the data will be updated on the right part of the database. The system would reduce storage space by performing automatic archiving of old, infrequently accessed data from expensive storage devices to low cost-effective storage devices. The system would enhance data sharing capabilities by increasing access to the database using queries. This increases the accuracy of access to data, although the information is from the same database. Different users would be able to access the same database from different devices and at different physical locations.

1.1. Functional Requirements

Requirement No.	Priority Weight	Description
REQ-1 Login	18.2	The associate can enter their correct credentials in the login page and will be successfully logged in. If entered data is invalid, an error message will be displayed.
REQ-2 Add new patient	16.8	A receptionist will enter the patient details and the system will assign a unique patient ID.
REQ-3 Add/edit/delete user	14.6	An administrator will have the ability to add, edit, and delete users.
REQ-4 Search for patient	12.7	All associates will be able to search for patient details.
REQ-5 Generate bill	11.0	The Billing Clerk will enter the patient details and charges in order to get a total and generate a bill.
REQ-6 Request lab test	8.9	Doctors can request for lab tests.
REQ-7 View lab test requests	7.1	Doctors and lab associates can view all new lab test requests. Lab associates will be able to approve or deny requests.
REQ-8 View lab tests in progress	6.7	Doctors and lab associates can view all lab tests in progress. Lab associates can complete lab tests.
REQ-9 View lab test results	6.0	Doctors and lab associates can view all lab test results.
Total: 100		

1.2. Nonfunctional Requirements

Requirement No.	Priority Level	Description
REQ-10 Security	Critical	Secure access by username (ID) and password.
REQ-11 Performance	High	User-friendly interface for better interaction.

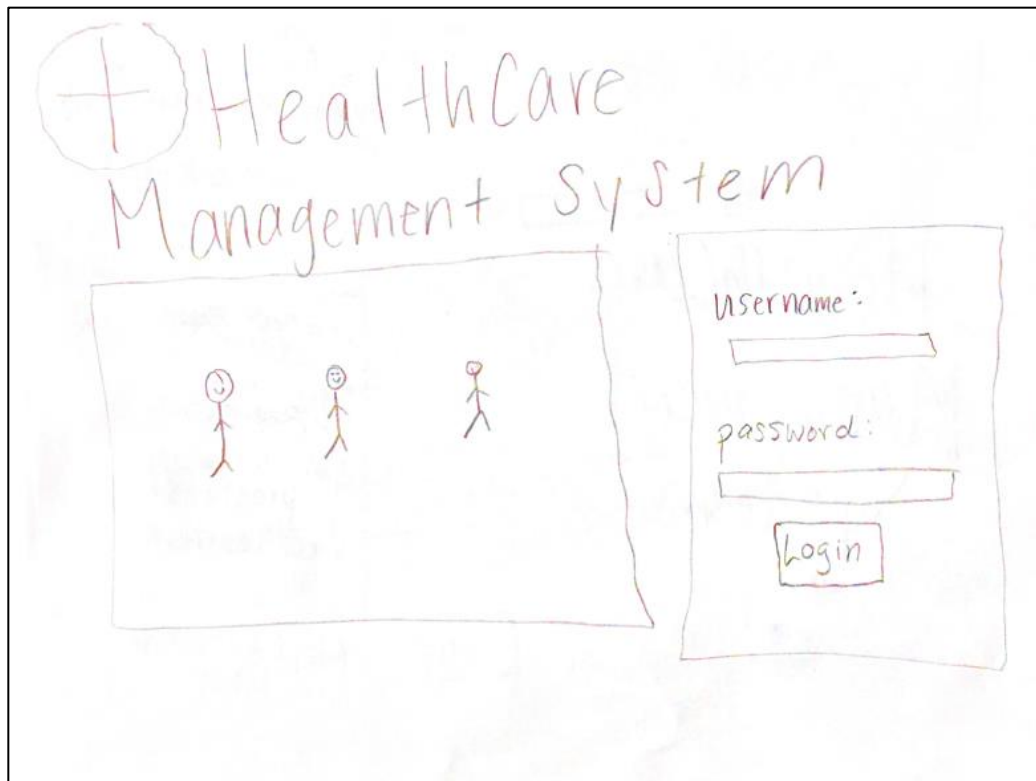
REQ-12 Platform Independent	Normal	Can be accessed by any type of platform.
REQ-13 Maintainability	Low	Backup of the database will be taken, and extra memory will not be occupied because there will not be any redundancy in the database.

1.3. User Interface Requirements

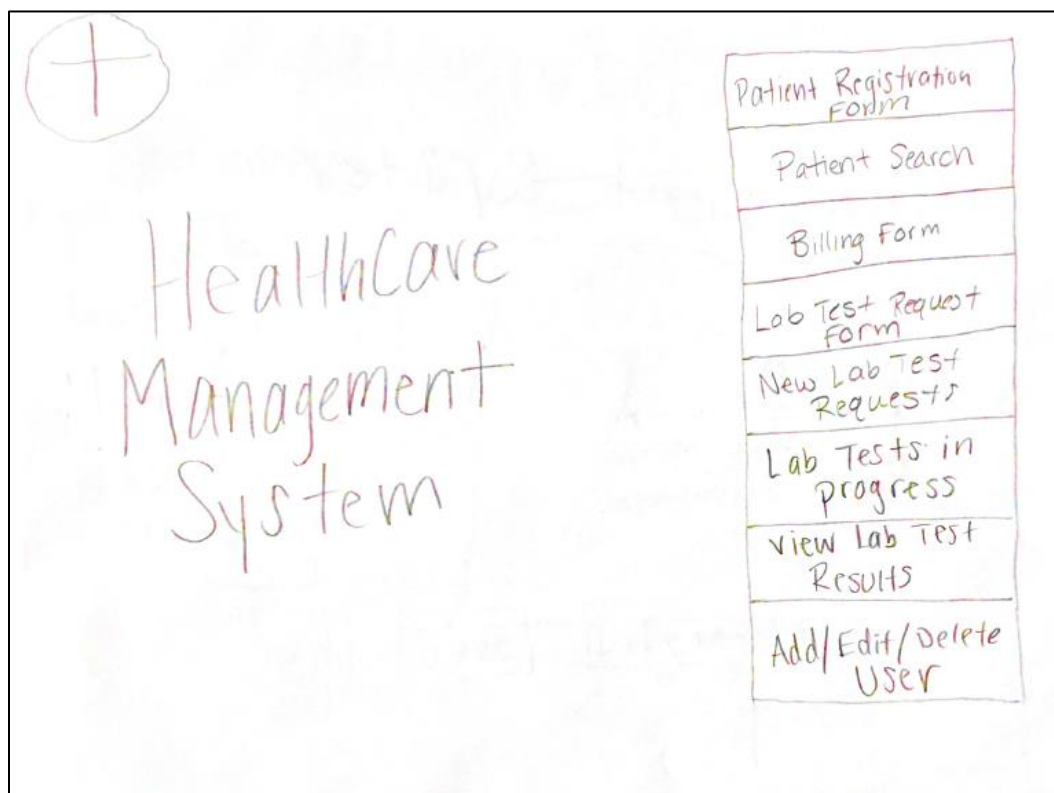
Requirement No.	Priority Level	Description
REQ-14	High	A login screen for entering username and password
REQ-15	High	Display a homepage for the system
REQ-16	High	Add/edit/delete user
REQ-17	Normal	Patient registration form
REQ-18	Normal	Patient search
REQ-19	Normal	Billing form
REQ-20	Low	Lab test request form
REQ-21	Low	New lab test requests
REQ-22	Low	Lab tests in progress
REQ-23	Low	View lab test results

1.3.1. User Interface Requirement Sketches/Graphics

1.3.1.1 REQ-14 sketch



1.3.1.2 REQ-15 sketch



1.3.1.3 REQ-16 sketch

Add/Edit/Delete User

Select one

Add user ☐

Edit user ☐

Delete user ☐

ID

Name

DOB

Contact No

ID

Gender

Department

1.3.1.4 REQ-17 sketch

Patient Registration Form

Patient ID

Patient Name

DOB

Gender

Address

Contact No

Registration Date

Room No

Doctor

Incomplete/saved Patient Registration Forms:

1.3.1.5 REQ-18 sketch

Patient Search

Patient ID Patient Name DOB

Patient ID Registration Date
 Patient Name Room Number
 DOB Doctor
 Gender
 Address
 Contact No

1.3.1.6 REQ-19 sketch

Billing Form

Bill No Date

Patient ID Date of Admission
 Name Date of Discharge
 DOB
 Gender

Room Charges
 Doctor Fees Miscellaneous
 Lab fees

1.3.1.7 REQ-20 sketch

Lab Test Request form

Patient Name Patient ID

DOB

Gender

Test Name

Description

Doctor

Incomplete / Saved Lab Test Request Forms:

1.3.1.8 REQ-21 sketch

New Lab Test Requests

Patient Name Patient ID

DOB

Gender

Test Name

Description

Doctor

New Lab Requests:

1.3.1.9 REQ-22 sketch

Lab Test in Progress

Patient Name Patient ID

DOB

Gender

Test Name

Description

Doctor

Lab Tests in Progress:

1.3.1.10 REQ-23 sketch

Lab Test Results

Patient Name Patient ID

DOB Lab Test Results

Gender

Test Name

Description

Doctor

Completed Lab Tests:

2. REFERENCES

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