**MEDCARE**

**System Requirements Statement**

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**Introduction**

This document explains the system requirements and scope for developing MEDCARE System.

MEDCARE System could divide the four main parts, Admin part, Hospital part, User part and the Doctor part.

This document describes the system requirement of the MEDCARE system.

# **2. Functional Requirements**

The Account part of MEDCARE System has four modules which are divided 24 processes described as below.

|  |  |  |
| --- | --- | --- |
| **No** | **BRS requirement ID** | **Description** |
| **2.1** | **Admin Module** | |
| **2.1.1** | **F1** | **Login Process** |
| **2.1.2** | **F2** | **Hospital Registration** |
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| **2.2.4** | **F8** | **Update Hospital Details** |
| **2.2.5** | **F9** | **View Ratings** |
| **2.2.6** | **F10** | **Logout Process** |
| **2.3 User Module** | | |
| **2.3.1** | **F11** | **Get Insurance Process** |
| **2.3.2** | **F12** | **Create Password Process** |
| **2.3.3** | **F13** | **Login Process** |
| **2.3.4** | **F14** | **Forgot Password Process** |
| **2.3.5** | **F15** | **Book Appointment** |
| **2.3.6** | **F16** | **Get Consultation** |
| **2.3.7** | **F17** | **Logout Process** |
| **2.3.8** | **F18** | **Read Blogs** |
| **2.4 Doctor Module** | | |
| **2.4.1** | **F19** | **Login Process** |
| **2.4.2** | **F20** | **Forgot Password** |
| **2.4.3** | **F21** | **Appointment Schedule** |
| **2.4.4** | **F22** | **Update Profile** |
| **2.4.5** | **F23** | **Publish Blogs** |
| **2.4.6** | **F24** | **Logout Process** |

**Admin Module**

1. Login Process

* MEDCARE system allows admin to login to the portal using username and password.
* Authentication to admin is checked by following way:
* Admin with provided username and password is present in database or not. If not, authentication cannot provided.

1. Hospital Registration

* After successful login admin is provided with a hospital registration trigger, where admin can add hospital details such as:
* Hospital\_id :- should be unique and auto-incremented.
* Hospital\_pwd :- validate as minimum 8 char & max 12 with atleast one uppercase, one special char & number.
* Name
* Address
* Specialization
* Infrastructure
* Rating :- out of 10.

All the above details are compulsorily required.

1. Upload & Update Insurance

* Admin have access to upload & update insurance details.
* Insurance details consists of :-
* Insurance\_name
* Insurance\_policy\_details
* Insurance\_rules\_regulations

1. Logout

* MEDCARE has provides a logout trigger to the admin.
* After clicking on logout admin in placed in home page of the application.

**Hospital Module**

1. Login Process

* MEDCARE System always compels hospitals authentication before using itself .
* Hospitals can be validate using username and password.
* Authentication to hospital is checked by following way:
* The username and password input given by hospital is perfectly matches with Hospital\_Id and Hospital\_Password respectively from hospital registration details.
* If login credentials are perfectively matches then hospital is placed in a “Hospital Home”

1. Forgot Password

* When hospital lost their password the recovery method should be provides as forgot password.
* Hospital should enter their Hospital\_Id.

Get Password button is provided. After clicking that button hospital can get Hospital\_Password

1. Add Doctors Details

* MEDCARE provide add doctors trigger to hospital where hospital can fill the information about their doctors.
* Details of doctors consist of
* Doctor\_ID:- unique and auto incremented
* Doctor\_Password:- unique
* Name:- should be first name, middle name & last name separated with one space char.
* Dob :- as dd-mm-yyyy
* Address :- permanent address
* Email :- validate as example- sample@gmail.com
* Mobile no :- should be 10 number
* Specialization
* Education
* Experience: - only in numbers.

All the above attributes are compulsorily required.

1. Update Hospital Details

* Hospital has provided with the trigger of update hospital details.
* Hospitals can update the information about:
* Infrastructure
* Facilities

1. View Ratings

* Hospital has Access to seen the ratings given by patients to the hospital.
* Rating should be out of 10.

1. Logout

* Hospital has provided with the Logout trigger.
* After clicking on logout hospital is placed to home page.

**User Module**

1. Get Insurance

* Insurance is mandatory for all the users without getting an insurance user will not be allowed to use MEDCARE system.
* In “Insurance Home” user will get all the information about insurance policy, Insurance rules and regulation, benefits of insurance etc.
* “Insurance Home” provides Buy Insurance trigger after clicking on that MEDCARE wants to user fill their details in the form such as:

Insurance Id:-unique ,auto generated

* Name :- should be first name, middle name & last name separated with one space char.
* Address :- permanent address.
* Mobile no :- should be 10 digits.
* Email :- validate as example- sample@gmail.com
* Aadhar no :- should be unique and should have 12 digits.
* Dob :- should be in format dd-mm-yyyy.
* Gender
* Date :-Date of buying insurance

All the information is mandatory.

* After successfully registering user is jump to the payment section, here user can fill their bank details such as

Account number

Account holder name

Fill amount to paid

* After successfully providing all the details user will click on the pay button and after payment is successful it means user has successfully buy an insurance and then an unique is provided to the user.

1. Create Password

* In create password section user will get a form with following entities:

Key :- Provided to user after successful buying of Insurance

Password :-User has to create his own password

Repeat Password

* After clicking on a create password button the password is successfully created for that patient.
* And forward user will use that unique key and password as a login credentials.

1. Login Process

* MEDCARE system allow user to login using username and password getting after buying an insurance.
* System checks whether user is valid or not by using:
* User with given username buys an insurance or not.
* User with given username is active or not.
* If user is authenticating as valid then user get placed in “Patient Home”

1. Forgot Password Process

* When user lost their password the recovery method should be provides as forgot password.
* User should enter their User\_Id.

Get Password button is provided. After clicking that button user can get User Password

1. Book Appointment

* Here user will get a list of hospitals as a trigger.
* When user clicks on any hospital name he will get all the details about that hospital and all the doctors information related to that hospital.
* User will choose doctor for appointment and click on Get Appointment trigger.
* Information about appointment is displayed on the page.
* Appointment Time and Date

1. Get Consultation

* User will get “Get consultation” trigger for getting an appointment for online consultation with doctor.
* User will get a form to provide some information as:
* Patient Name
* Address
* Age
* Gender
* Mobile no

\*Above details will be prefilled from user records.

* Symptoms: - user can add multiple symptoms.

All the information is mandatory.

* After successfully filling the details the information about online consultation is displayed on the page.
* Online consultation date and time.

1. Logout

* User has provided with the Logout trigger.
* After clicking on logout user is placed to home page.

1. Read Blogs

* Blogs is a separate trigger provided to the user.
* Here user can read blogs published by the doctors.
* User is authorised to add comments on a particular blog.

**Doctor Module**

1. Login Process

* MEDCARE system allows doctors to login using username and password.
* Authentication to doctor is checked using username and password. If doctor is valid then doctor is placed in “Doctor Home”

1. Forgot Password

* When doctor lost their password the recovery method should be provides as forgot password.
* Doctor should enter their Doctor\_Id.

Get Password button is provided. After clicking that button doctor can get Doctor\_Password

1. Appointment Schedule

* Here doctor will get his daily schedule of appointment with patients.
* Appointment details as :-
* Patient\_name
* Date\_time :- of appointment

1. Update Profile

* Here doctors will update his profile.
* Doctor get a for where doctors have to edit their details.

1. Publish Blogs

* Doctor is provided with a text area where doctor is allowed to write content to help users to proper health care.
* After clicking on submit blog user is able to see that blog.

1. Logout

* Doctor has provided with the Logout trigger.
* After clicking on logout doctor is placed to home page.

**Use case Diagrams**

**System**

User:

User

Fig : Use case diagram for user

In use case diagram of user. User is a actor.

User can handle following use cases:

1. Get Insurance
2. Login
3. Forgot Password
4. Get Appointment
5. Get Consultation
6. Logout
7. Read Blogs

Doctor: **System**

Doctors

Fig : Use case diagram for doctor

In use case diagram of doctor. Doctor is a actor.

Doctor can handle following use cases:

1. Login
2. Forgot Password
3. Get appointment schedule
4. Update Profile
5. Publish Blogs
6. Logout

Admin: **System**

Admin

Fig : Use case diagram for admin

In use case diagram of admin. Admin is a actor.

Admin can handle following use cases:

1. Login
2. Register Hospital
3. Upload and Update Insurance
4. Logout

**Hospital: System**

Hospital

Fig : Use case diagram for hospital

In use case diagram of hospital. Hospital is a actor.

Hospital can handle following use cases:

1. Login
2. Forgot Password
3. Add Doctors
4. Update Hospital Information
5. View Ratings
6. Logout