***Software requirement specification for Clinic Information System (Icare)***

**Table Of Content:**

1. **Introduction:**

A Product requirements document is used in product marketing to plan andexecute new products.

A Software Requirements Specification is a complete description of thebehavior of the system to be developed. It includes a set of use cases thatdescribe all the interactions that users will have with the software.

Use Cases are also known as Functional Requirements. In addition to use cases, the **SRS** also contains nonfunctional requirements.

The software requirements document is a written statement of what thesoftware will do.

What the software does is directly perceived by its users. When the userperforms some action, the software responds in a particular way.

Therefore, you must agree on actions the users can perform and response theyshould expect. This common understanding is captured in the requirementsdocument.

* 1. **Purpose:**

This document contains the tests requirements for Icare clinic information System.

* 1. **Project scope:**

This document encapsulates the functional requirements for the software that will be developed in detail. And include details about most likely use cases and how the system should react to them.

1. **Requirements**

This part of the requirements document serves to present the "big picture" of the application. Here you lay out the objectives of the application.

* 1. **Login :**

Graphical user interface, application

Description automatically generatedThe login will be the first interface the user interacts with when the application will start, there will be two inputs username and password , and two buttons login and clear.

* + 1. **Functional Requirements :**
       1. **Req001:**

User clicks sign without entering any information

**Req001a:** Error text will appear at top of screen

**Req001b:** Error text will be in red

**Req001c:** error message will be “No inputs given please enter username and password”

* + - 1. **Req002:**

There will be three users at the launch of the application:

1.Owner(admin)

2.Mannger

3.Receptionest

Each user will have a unique ID for login where moreover each of them will have a different prefix of the username and the ID must be longer than 3 therefore it will be prefix which is 3 letters and one number minimum.

**Req002a :**

Owner username must start with “OWN” in capital or small then followed by users unique ID.

**Req002b :**

Manager username must start with “MAN” capital or small followed by the users unique ID.

**Req002c:**

Receptionist username must start with “REP” capital or small followed by the users unique ID.

* + - 1. **Req003** :

User gave incorrect username or username

**Req003a :** Don’t enter the system

**Req003b:** Error message will be displayed at top of screen

**Req003c:** Error message will be displayed at top of screen

**Req003d :** Display invalid error message “Invalid Email or Password Please Try again”

* + - 1. **Req004:**

Password must be longer then 3

* + - 1. **Req005:**

Username and password must not be empty

* + - 1. **Req006:**

Clear Button will empty contents of text boxes

* + 1. **Login Graphical user interface (GUI) :**
       1. **Req007:**

Interface on start up

* + - * 1. **Req007a** : Label “Sign in” visible: True
        2. **Req007b** : Label “error Message” visible: False
        3. **Req007c :** Label “Username” visible: True
        4. **Req007d :** Textbox “Enter Username” visible: True
        5. **Req007e :** Label “Password” visible: True
        6. **Req007f :** Textbox “Enter Password” visible: True
        7. **Req007g :** Button “Sign In” visible: True
        8. **Req007h :** Button “Clear” visible: True
  1. Graphical user interface, application

     Description automatically generated**Owner Screen:**
     1. **Description :**

This is the screen which will appear after user signs in successfully as an Owner , will be the main hub for all their work as it leads to all the other screens that have all there permitted actions.

* + 1. **Functional Requirements:**
  1. Graphical user interface, application

     Description automatically generated**Manger Screen**
     1. Description :

This is the screen which will appear after user signs in successfully as a manager , will be the main hub for all their work as it leads to all the other screens that have all there permitted actions.

* + 1. **Functional Requirements:**
  1. **Graphical user interface

     Description automatically generatedReceptionist Screen**
     1. **Description:**

This is the screen which will appear after user signs in successfully as a receptionist, will be the main hub for all there work as it leads to all the other screens that have all there permitted actions.

* + 1. **Functional Requirements:**
       1. **Re030:** No fields can be empty

**Re030a:** if detected any field is empty when add button is pressed display error message “Empty TextField Detected”

* + - 1. **Re031:** Full name must not contain any letters

**Re031a:** if detected number in Full name field when add button is pressed display error message “Full-name Cannot Contain Number”

* + - 1. **Re032:** Number must contain exactly 10 numbers

**Re032a:** if detected number of numbers not equal to 10 when add button is pressed display error message “Number Must contain 10 numbers given number is + (number of numbers given by user)”

**Re032b:** Number must start with 05

**Re032c:** if detected number doesn’t start with 05 when add button is pressed display error message “Number Must Start with 05”

**Re032d:** number must be smaller than 2147483646

**Re032e:** if detected number is bigger than 2147483646 when add button is pressed display error message “Number Is Too Big”

* + - 1. **Req033:**ID must be smaller than 2147483646

**Req033a:** if detected ID is bigger than 2147483646 when add button is pressed display error message “ID Is Too Big”

* + - 1. **Req034:** If patient added successfully display message “Patient Added Successfully” in blue

**Req034a:** if patient wasn’t added for any reason display error message “Patient Wasn’t Added Successfully” in red

* + - 1. **Req035:** Combo box will contain all the available doctors in the clinic which the patient will be assigned to
      2. **Req036:** logout button will return user to login screen and log the time in which they logged out
      3. **Re037:** Refresh button would refresh the database so if any changes happened user can see them
    1. **Login Graphical user interface (GUI) :**
       1. **Req038:**

Interface on start up

* + - * 1. Tab “Main Screen” visible : True
        2. Tab “Search for Patient” Visible: True
        3. : Label “ID” visible: True
        4. :Textbox ”Enter Patient ID” visible: True
        5. **:** Label “Error message” visible: False
        6. **:** Label “Full Name” visible: True
        7. **:** Textbox “Enter Patient Name” visible: True
        8. **:** Label “Number” visible: True
        9. **:**Textbox “Enter Patient Phone Number” visible: True
        10. **:** Label “Age” visible: True
        11. **:** Textbox “Enter Patient Age” visible: True
        12. : label “Choose Doctor” visible: True
        13. **:** Combo Box visible : True
        14. **:** Button “Log Out” visible: True
        15. **:** Button “Refresh” visible: True
    1. **Search screen :**

Graphical user interface, application

Description automatically generatedThis screen can be accessed by a tab on the top of the user’s interface which will display the following screen that will allow the user to search for a patient by their ID.

* + - 1. **Re039 :** TextField must not be empty

**Re039a:** if TextField detected empty display error message “ Empty TextField Detected”

**Re039b:** ID must be valid i.e., a patient must have that ID

**Re039c:** if given an invalid ID display error message “Patient Wasn’t Found”

**Re039d:** if ID is valid display message “ Patient Found” in blue and display that patient’s information in the name, age, and number

* + 1. **Login Graphical user interface (GUI) :**
       1. **Req040:**

Interface when user selects Search for Patient Tab

1. Label "Enter Patiant ID:” Visable :True
2. Textbox Visable :True
3. Button "Search " Visible :True
4. Label