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# ****Chat App Requirements****

## ****1. Chat List (Messages Overview)****

### ****Description****

* A window displaying a list of past chats between doctors and patients.
* Each list item represents a chat and includes:
  + The name of the doctor or patient involved.
  + If the name is too long (more than 50 characters), only a truncated version is displayed.
* Only private one-on-one chats are supported.

### ****Behavior****

* If there are too many chats to fit on the screen, a scroll bar will be available.
* If no chats exist, the window remains empty with an appropriate placeholder message.
* Chats are sorted in descending order based on the latest message sent or received.
* Changes made by other users are not updated in real time.
* All chats and messages are loaded on the screen at once.

## ****2. Chat Window****

### ****Description****

* A dedicated window for messaging with an individual.
* **Search Bar:** Allows users to quickly find a specific doctor.
* The chat window includes:
  + The name of the other participant displayed at the top.
  + A message input bar at the bottom for composing messages.
  + A send button located at the bottom-right corner.

### ****Message Constraints****

* Messages can be a maximum of **255 characters** long.
* Messages include the following details:
  1. Message text.
  2. The sender’s name (truncated to a maximum of 50 characters if too long).
  3. Date and time of when the message was sent.

### ****Display & Alignment****

* All messages are aligned to the left.

## ****3. Future Enhancements (Planned Features)****

* Real time changes update.
* **Photo Messages:** Ability to send images in chat.
* **Message Alignment Update:**
  + Messages from the other person will remain on the left.
  + The user's own messages will be displayed on the right.

**Notification System Requirements**

## ****1. Notification Window****

### ****Description****

* A dedicated window displaying the **latest notifications received**.
* Each notification in the list:
  + Can contain a maximum of **50 characters** (longer notifications are truncated).
  + Clicking on a notification opens a **pop-up window** with the **full content**.
  + ClearAll Button for deleting all the notifications.

### ****Behavior****

* A **"Clear All"** button at the top allows users to **delete all notifications** at once.
* If there are **too many notifications** to fit in the window, a **scroll bar** is provided.
* If there are **no notifications**, the window remains empty with an appropriate placeholder message.
* All notifications are loaded on the screen at once.
* New notifications are not updated in real time, reintering the window is necessarily for updates.

## ****2. Notification Pop-Up****

### ****Description****

* When a user clicks on a notification, a **pop-up window** appears, displaying the **full message**.
* A **delete button** is available inside the pop-up, allowing the user to **remove that specific notification**.
* If the full notification exceeds **255 characters**, a scroll bar is available in the pop-up.

## ****3. Notification Types****

### ****For Patients:****

* **Upcoming Appointment Reminder:**
  + Example: "Tomorrow at [Time], you have an appointment with Dr. [Name]."
* **Medication Reminder:**
  + Example: "It's time to take [Medication Name], Quantity: [Dosage], [Administration]"
* **Review Reminder:**
  + Example: "Reminder: Please leave a review for your last appointment." (No direct link provided.)

### ****For Doctors:****

* **Appointment Cancellation Notification:**
  + Example: "Patient [Name] has canceled their upcoming appointment on [Date]."

### ****For Admins:****

* **Anonymous Doctor Review Notification:**
  + Example: "A new anonymous review has been submitted for Dr. [Name]."

## ****4. Additional Features (Planned Enhancements)****

* **Automatic Deletion:** Notifications are automatically **removed after 7 days**.
* Clicking outside the window closes it.
* **Selective Deletion:** Users can **choose specific notifications** to delete instead of clearing all at once.

# ****Hospital Audit System Requirements****

## ****1. Overview****

* The audit system allows users to view hospital **statistics** from the chosen period of time (last year/ month, default: month).
* Users can choose to view data based on:
  + **Doctors**
  + **Departments**

## ****2. Doctors' Statistics****

### ****Doctor Details List****

* A list displaying **doctor names along with total hours worked** and **number of patients treated** in the selected period of time.
* If a name is too long, it will be **truncated**.
* If the list is too long to fit the screen, a **scroll bar** will be available.
* A combo box for choosing the period of time will be available
* All doctors are loaded on the screen at once.

## ****3. Department Statistics****

### ****Department Details List****

* A list displaying **department names along with:**
  1. **Number of doctors** in the department.
  2. **Number of medical equipment** in the department.
  3. **Number of rooms** in the department.
  4. **Number of internees (hospitalized patients)** in the department in the selected period of time.
* If a name is too long, it will be **truncated (>100)**.
* If the list is too long to fit the screen, a **scroll bar** will be available.
* All departments are loaded on the screen at once.

## ****4. Additional Features (Planned Enhancements)****

* **Filter Options:** Users can filter data by specific date ranges instead of just the past month.
* **Export Data:** Ability to generate a **report (PDF/Excel)** with the statistics.