"AssafMedia-Whisper" - Application Implementation Tasks

Below is a list of tasks categorized as "Complex," "Simple," and "Bonuses." **Please note, the Login Page task is mandatory!**

We recommend implementing 2 complex tasks and 2 simple tasks. If time permits, you may also implement bonuses. The more tasks you complete, the higher your score will be. However, the weight of the tasks is also significant (for example, it is not recommended to implement only simple tasks).

The time limit for the test must not be exceeded - 4 hours. You must document your time estimates and the actual hours worked.

Complex Tasks

1. **React Login Page - Mandatory**
   - **1.1 Client-Side:** The user enters their username, which is sent to the server. The server uses the brevo.com API (API only, not SMTP) to send an OTP that is valid for 10 minutes. A new OTP can be requested every 30 seconds, with a maximum of 4 per hour and 10 per day.

   - **1.2** Implement a honeypot field.

   - **1.3** Add columns to the DB as required for this functionality.

   - **1.4 Important Note:** Communication with the server for this flow must be handled by a different endpoint file than the main API file used for post-login communication.

   - **1.5 Server-Side:** Upon successful login, a token will be generated. This token will be used for all subsequent actions.

   - **1.6** Note that this should be a standalone script/application.

- ○ **1.8** Read the relevant notes in the specification document.

2. **Send an image** via file selection + Drag & Drop. Drag & Drop is for desktop only. On mobile, allow uploading directly from the camera (similar to WhatsApp).

3. **Send voice messages** via recording (similar to WhatsApp).

4. **Ability to create a group and chat within it:**
   - ○ **4.1** Create a group and add members during the creation process only. Each group will have a unique ID but a non-unique name (two groups can have the same name).

   - ○ **4.2** The chat within a group should be styled so it's clear who sent each message.

   - ○ **4.3** There is no need to implement group management features like viewing members, or removing/adding members after the group has been created.

Simple Tasks

1. **Add the ability to select and send emojis.** This includes the pop-up emoji picker (like WhatsApp), selecting emojis, and adding them to the message. If a message contains only a single emoji, it should appear larger.

2. **A flag in the DB for whether a message has been read and by whom.** Ability to see on the client who read the message and when.

3. **The ability to delete a message for both sides.**

4. **Play a sound** when a new message is received.

5. **Older messages will be loaded automatically** when scrolling to the top of the message window (Lazy Loading).

6. **The ability to send a PDF file** via drag & drop or file selection.

7. **Control all settings** under $.settings via the config table in the DB.
8. **Any feature written in the specification** that has not been implemented, which you want and are able to implement.

9. **Add an indicator for the number of new messages** in each chat (refer to the chat list screen design in the specification).

Bonuses

1. An animated **splash screen**.

2. Assuming you've implemented voice message recording - an **animation when pressing the record button**.

3. An **animation for new incoming messages**.

4. Add **different sounds** to the application, controllable via the DB.

5. **Amusing error messages** will receive a (minor) bonus.

Good luck!

AssafMedia