Object-Oriented
Programming

PROJECT

SKYPE

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OBJECTIVES

Make an app where the users can send and receive messages, make voice and video calls and share activities with their partners.

Implement a system or an authenticator where every user can have a personal account.

Design a website that is intuitive and easy to use for everyone, with essential functionalities and a seamless user experience that enhances accessibility, responsiveness, and user engagement

USER STORIES

Tittle	Priority	
	high	

User Storie:

As a new user, I want to be able to use my email to create a personal account in the app with a unique username and password.

Aceptance Criteria:

1. The user must enter a valid email, unique username, and password to complete registration.
2. If the email or username is already in use, the system displays an appropriate error message.
3. Upon successful registration, the user is automatically logged in and redirected to the main interface.

Tittle	Priority	
	high	

User Storie:

As a user, I want to be able to communicate with other users through messages and calls while maintaining private conversations.

Aceptance Criteria:

1. Users can send and receive messages in a private chat with another user.
2. Messages and calls are encrypted and accessible only by the participants.
3. Users can start voice or video calls directly from the chat interface.

Ttitle	Priority	
	high	

User Storie:
As a user, I want to be able to create or delete groups in the app.

Aceptance Criteria:

1. The user can access a "Create Group" and "Delete Group" option from the group settings.
2. Only group owners or admins can delete a group.
3. Deleting a group removes all chat history for all members.

Tittle	Priority	
	high	

User Storie:
As a user, I want to send messages in a group or chat and have other people see them instantly and be able to reply to them.

Aceptance Criteria:

1. Messages sent in group or private chats appear instantly to all participants.
2. Each message shows the sender's name and timestamp.
3. Participants can reply by sending a new message in the same thread.

Tittle	Priority	
	high	

User Storie:
As a user, I want to be able to add or remove other users from a group I own.

Aceptance Criteria:

1. Group owners can search for users and add them to the group.
2. Group owners can remove any member from the group.
3. A confirmation prompt appears before removing a user.

Tittle	Priority	
	mid	

User Storie:
As a user, I want to temporarily close my account securely to protect it while I'm not using the app.

Aceptance Criteria:

1. The user can deactivate their account from settings.
2. While deactivated, the account is hidden from other users and cannot be used.
3. The user can reactivate the account by logging in again.

Tittle	Priority	
	mid	

User Storie:

As a user, I want to create public or private groups to chat with other users.

Aceptance Criteria:

1. The user can create a group and choose whether it's public or private.
2. Public groups are visible to all users; private groups require an invitation.
3. The creator becomes the default group admin.

Tittle	Priority	
	mid	

User Storie:

As a user, I want to be able to join existing groups to participate in new conversations.

Aceptance Criteria:

1. Users can view and search for public groups.
2. Users can request to join private groups or accept an invitation.
3. Once joined, the user can read and send messages in the group.

Tittle	Priority	
	mid	

User Storie:
As a user, I want my groups to be manageable only by me or other users to whom I give permission.

Aceptance Criteria:

1. The group owner can assign admin roles to specific members.
2. Only the owner and admins can manage group settings and members.
3. Admin rights can be revoked at any time by the group owner.

Tittle	Priority	
	low	

User Storie:
As a user, I want a user-friendly and customizable interface so I can adjust it to my liking.

Aceptance Criteria:

1. Users can choose between light and dark mode themes.
2. Users can customize chat backgrounds and font size.
3. Changes are saved and applied automatically to the interface.
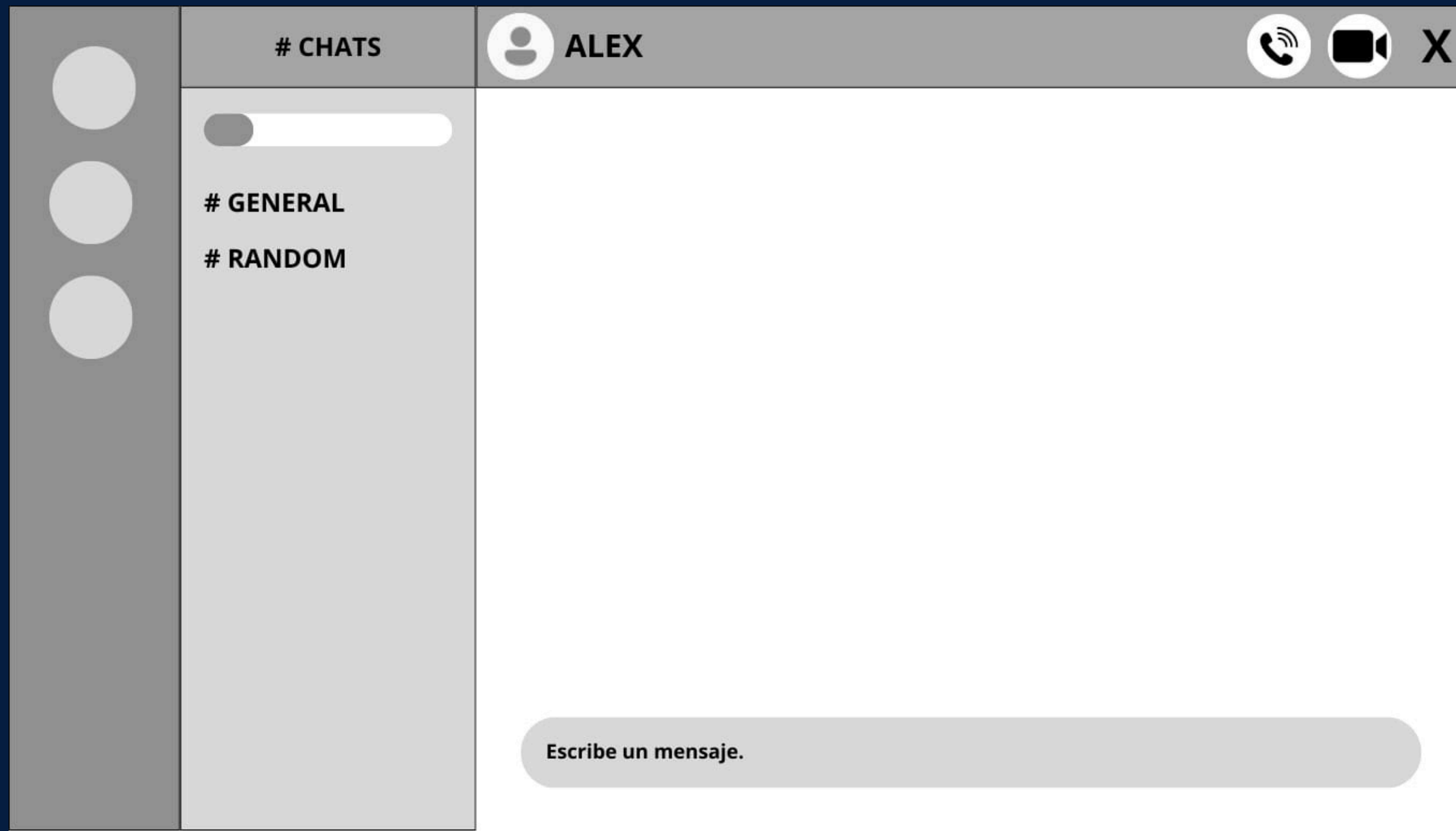
MOCK-UPS

Sign-In

¡Bienvenido!

CORREO:

CONTRASEÑA:

INICIAR SESIÓN

Aún no tienes cuenta?
Registrate

Principal Page

CHATS

ALEX

GENERAL

RANDOM

Escribe un mensaje.

Profile

CRC CARDS

Class: User

RESPONSIBILITIES	COLLABORATORS
- Register and log in - Edit profile (name, status, profile picture) - Add and remove contacts - Send and receive messages - Start and receive calls	- Contact List - Message - Call

Class: Contact

RESPONSIBILITIES	COLLABORATORS
- Represent another user in the contact list - Display contact name and status	User

Class: Message

RESPONSIBILITIES	COLLABORATORS
• Store message content • Record timestamp • Know the sender and receiver	• User

Class: Call

RESPONSIBILITIES	COLLABORATORS
• Start a call between two or more users • Track duration and participants • End the call	• User • Call History

Class: Message/Call History

RESPONSIBILITIES	COLLABORATORS
- Store previous messages - Display past conversations - Keep a log of past calls	- User - Message - Call

Class: Chat

RESPONSIBILITIES	COLLABORATORS
- Manage a conversation between two or more users - Store a list of messages - Display messages in order - Allow sending new messages within the chat	- User - Message