

CLASSICAL CHATS + AUDIO CALLS

REQUIREMENTS

- When the application starts, a user can see the list of his contacts.
- An item in the contact list consists of the contact name, the profile photo of the contact, the last exchanged message, the date and time of the last exchanged message and the status of the last exchanged message.
- Only the first 30 characters of the last exchanged message will be displayed in an item of the contact list. If the last exchanged message has more than 30 characters, the first 30 characters will be continued with "...".
- If the user sent the last message, the label "You: " will be displayed in the corresponding item of the contact list, in front of the first 30 characters of the last exchanged message. If the contact sent the last message, no label will be displayed.
- The status of the last exchanged message can be: new / received / waiting / delivered / seen and has the following meaning:
 - New = the user received a message from the contact and hasn't opened it yet.
 - Received = the user received a message from the contact and has opened it.
 - Waiting = the user sent a message and the contact hasn't received it yet.
 - Delivered = the user sent a message and the contact has received it.
 - Seen = the user sent a message and the contact has opened it.

- The list of contacts is sorted chronologically based on the last exchanged (sent or received) message, the contact with the most recent exchanged message being at the top of the list. The contacts with which the user hasn't exchanged messages yet are sorted alphabetically, based on their name.
- A user can search contact names to find a specific contact he is looking for by typing the name of the contact in the text box above the contact list.
- Whenever the text in the searching text box changes, only the contacts whose names have the input text as a substring will be displayed, case insensitive.
- If the searching text box is empty, the entire contact list will be displayed.
- A user can select a contact from the contact list in order to chat with them.

- When a contact is selected, a window with a 1-on-1 chat between the user and the contact will appear.
- Once opened a 1-on-1 chat, the user can see the profile photo of the selected contact, the name of the selected contact and the chat history.
- The profile photo and the name of the selected contact are displayed at the top of the window.
- The chat history is composed of messages exchanged between the user and the contact. The messages are sorted chronologically, the most recent one being closer to the bottom of the window.

- User's messages appear on the right side of the screen, while the contact's messages appear on the left side of the screen.
- The date, time and status of a message can be seen if the user selects the message. If the user selects a message sent by him, the date, time and status will appear on the right side of the message. If the user selects a message sent by the contact, the date, time and status will appear on the left side of the message.
- User's message box and contact's message box are displayed with different colours.
- A message can be: a text message, a photo, a video, a voice note or a file.
- A text message can contain any Unicode characters (including emojis) and it cannot be empty.
- The user can type a text message in an input text box that is displayed at the bottom of the window.
- In order to send the message, the user must press the sending button. The sending button is situated on the right side of the input text box.
- Once a message is sent, it will appear in the chat history and the input text box will be cleared.
- For sending a voice note, there is a button on the left of the input text box. Once the button is pressed, the voice recording will start, the user can talk and a "stop" button will appear above the voice note button.
- The voice recording will stop when the user pressed the sending button or the "stop" button. If the sending button is pressed, the voice note will be sent to the contact and it will appear in the chat history. If the "stop" button is pressed, the voice recording will be deleted and nothing will be sent to the contact.

- For sending a photo or a video, there is another button on the left of the voice note button. When the button is pressed, the user can select a photo or a video from his device and can send it by pressing the sending button.
- For sending a file, there is a button on the left of the button for sending a photo/video. When the button is pressed, the user can select a file from his device and can send it by pressing the sending button.
- A user can call a contact by pressing the “call” button, which can be found next to the name of the contact.

- When the “call” button is pressed, an audio call request towards the contact is initiated and a new window displaying the contact’s name and profile photo is opened.
- The user can hang up any time by pressing the “end call” button. Once the button is pressed, the call stops and the window closes.
- During the call, the user can turn his microphone on/off by pressing a button. Initially, the microphone is on.
- During the call, the user can turn his camera on/off by pressing another button. Initially, the camera is off.
- A user can also be called by a contact. When that happens, a window will appear on the user's screen with the name and profile photo of the contact who’s calling.
- A user can accept the call by pressing a button, or he can decline the call by pressing another button.
- If the user accepts the call, the call will start in the same window, exactly as described above.

- If the user declines the call, the window of the call is closed and nothing else happens.