Modular organization of the app

According to the requirements, the app is structured in folders that makes navigating the code easier; therefore, the code has specific authentication, scheduling and messaging section, organized in folders that can be diferenciated.

Log In or Authentication Requirement:

- **Principal Folder:** lib/screens/authenticate.
- **Modules of the folder:**
  - **authenticate.dart:** principal module, connects with register and sign_in.
  - **register.dart:** records new data entries (strings) to the database.
  - **sign_in.dart:** validates existing data entries (strings) in the database.
- **Extra functions Folders:**
  - **lib/models:**
    - **user.dart:** provides the user format to the data entries.
  - **lib/screens/home:**
    - **wrapper.dart:** validates if the user has an active account,connects with authenticate and home.
    - **log_admin.dart:** allow user to upgrade to admin privileges.
  - **lib/services:**
    - **database.dart:** allows to save the data entries (strings) in the database.
  - **lib/shared:**
    - **loading.dart:** generates a loading animation between the screens.

Scheduling Requirement:

- **Principal Folder:** lib/screens/home.
- **Extra Notes:** This requirement is divided in two differents systems with a different interface for users and admins.

- **Modules in the homeAdmin Folder:**
    - **calendar_admin.dart:** creates a calendar table.
    - **drawer_admin.dart:** creates a navigation drawer to jump between the admin screens.
    - **view_admin.dart:** allows to display and modify the view of all existing events in the database.
    - **Extra Notes:** The messages_admin document is part of the messsenger service requirement.
- **Modules in the homeClient Folder:**
    - **about_us.dart:** is an extra screen to jump in the drawer_client.
    - **add_event.dart:** creates a new data entry in the database according to the event format.
    - **calendar_client.dart:** creates a calendar table.
    - **drawer_client.dart:** creates a navigation drawer to jump between the client screens.
    - **need_help.dart:** is an extra screen to jump in the drawer_client.
    - **view_client:** allows to display a part of the entry datas of events existing in the database.
    - **Extra Notes:** The messages_client document is part of the messsenger service requirement.
- **Extra functions Folders:**
    - **lib/screens/home:**
        - **home.dart:** allows to jump between screens that can be home.
    - **lib/models:**
        - **event.dart:** provides the event format to every new events.
    - **lib/services:**
        - **eventDB.dart:** allows to save the data entries of the new events.

Messenger Service Requirement:

- **Principal Folder:** lib/screens/home/homeAdmin & lib/screens/home/homeClient.
- **Extra Notes:** this requirement it´s inside the home folders, because this way you can jump between the calendar and messages screens, however all its resources are inside the chatRoom Folder to differenciate it.

- **Modules in the homeAdmin Folder:**
    - **messages_admin:** allows to the admin users connect to the chatRoom database.
- **Modules in the homeClient Folder:**
    - **messages_client:** allows to the general users connect to the chatRoom database.
- **Modules in the chatRoom (lib/screens/chatRoom) Folder:**
    - **Imagenes.dart:** gets the data to differenciate a sended image and display it.
    - **chat.dart:** displays the chat interface and allows to send massages.
    - **lista_imagenes:** allows to display the sended images and the data of this.
    - **photo_upload:** allows to upload and assing entry data to a selected image for the database.
    - **search.dart:** in simply terms,allows to search a specific user by email and name to chat.
- **Extra functions Folders:**
    - **lib/services:**
        - **database.dart:** allows to save the data entries in the database.
    - **Lib/shared:**
        - **constants.dart:** sets design constants for the messaging service.
        - **helperfunctions:** sets functions to support the validation on the messaging service.