Medical Supplies Management App

In the medical domain, an application is developed to help healthcare professionals manage medical supplies. The app allows healthcare organizers to record and manage details of medical supplies, enabling suppliers and staff to access and interact with relevant information.
On the server side, at least the following details are maintained:

- Id: Integer value greater than zero.
- Name: A string representing the medical supply name.
- Supplier: A string representing the medical supply supplier's name.
- Details: A string containing the supply details.
- Status: A string representing the supply status (e.g., "in stock," "out of stock," "pending").
- Quantity: An integer value representing the quantity of the medical supply available.
- Type: A string representing the medical supply type (e.g., "medication," "equipment," "consumables").

The application should provide the following features (available without restarting the app):
● Medical Supply Organizer Section (Separate Activity/Screen):

A. (1p) Add New Medical Supply: Using the **POST /medicalsupply** endpoint, the organizer can add a new medical supply, both online and offline.

B. (2p) View All Medical Supplies: Using **GET /medicalsupplies** call, organizers can retrieve and display a list of all medical supplies. The list should include id, name, supplier, and type. In offline mode, an offline message and retry option should be provided. The data should persist on the device after retrieval, regardless of online, offline, or restart conditions. Upon successful retrieval, since the data is now available on the device, additional server calls are unnecessary.

C. (1p) View Supply Details: By selecting a medical supply from the list, the organizer can view all details. Using **GET /medicalsupply** call with the supply id, the data should be retrieved from the server each time and made available on the device.

● Staff Section (Separate Activity/Screen) - Available Online Only:

A. (1p) View Supply Types: Using **GET /suppliestypes** call, staff can retrieve a list of medical supplies with their type. The server will return all the medical supplies, the app should group them by type, and display for each type the total quantities.

B. (1p) Request Supplies: Staff members can request additional supplies by selecting a type from the list above, and using **PUT /requestsupply** with the supply type.

● Supplier Section (Separate Activity/Screen) - Available Online Only:

(1p) View Supply Orders: Using **GET /supplyorders** call, suppliers can view a list of supply orders placed by healthcare organizers. Display an appropriate message if no orders are available.

● (1p) On the server side, once a new medical supply is added to the system, the server will send, using a WebSocket channel, a message to all the connected clients/applications with the new object. Each application that is connected will display the received object fields, in a human form (not JSON text or toString) using an in-app "notification" (e.g., using a snack bar, toast, or an on-screen dialog).

(0.5p) During all server or database operations, a progress indicator will be displayed.

(0.5p) On all server or DB interactions, if an error message is received, the app should display the error message using a toast or snackbar. A log message should be recorded for all interactions (server or DB calls).