IST 440W

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Functional Decomposition Level 0 and 1

Level 0

1. Search Screen
   * Display search engine for user to search for the medicine name that they are looking for
   * Display buttons for "Map" and "List" view options.
   * On button click, navigate to corresponding screen.
2. Pharmacy List Screen
   * Find pharmacies with the requested medicine from the database.
   * Display a list of pharmacies that have the medicine in stock.
   * Each item in the list shows the pharmacy name and medicine quantity.
3. Pharmacy Map Screen (Not working yet)
   * Find user's current location.
   * Find nearest pharmacies with the requested medicine from the database.
   * Display a map with markers for the nearest pharmacies.
   * Each marker shows the pharmacy name and medicine availability.
   * On marker click, navigate to pharmacy detail screen.
4. Pharmacy Detail Screen
   * Display detailed information about a selected pharmacy.
   * Show pharmacy name, address, phone number, and medicine quantity.

Level 1

Search Medicine

1.1 Search medicine name.

1.2 Validate input with Medicine name.

1.3 Search database for pharmacies with the medicine

View Pharmacies

2.1 Display list of pharmacies

2.2 Show pharmacy name, address, and medicine quantity

2.3 Filter pharmacies based on user's location.

View Pharmacy Details

3.1 Display pharmacy details

3.2 Show pharmacy name, address, phone number, and medicine availability

3.3 Show remaining stock of the medicine.

Go Back

4.1 Return to previous screen

Exit App

5.1 Terminate the application.