Technical Report

MediHelp

MOBILE APPLICATION DEVELOPMENT PROJECT

Vatsal Shah(A053)

Naitik Talati(A062)

Akash Dhanesha(A074)

Scope:

- The main objective of the project is to design and develop a user friendly, easy to use and an efficient computerized system.

- To help the management to keep a strong-hold on the application.

- To develop an accurate and flexible system.

- This system can be helpful in reducing manual workload of the user

- As many people who uses the app or website it gives wide scope of engaging and involving more and more medicals.

- To provide better Graphical user interface (GUI).

- It can be suitably modified and expanded in future for further records.

- Provide precise, up-to-date and complete data of user.

Introduction:

MediHelp is an online medical locater and medication information service to consumers, physicians, healthcare professionals in order to locate right medication at the right time to avoid casualties.

MediHelp's mission is to acknowledge consumers with authentic, accurate, timely and customized information about information to relative drug availability at the nearest through its website and application.

MediHelp will be privately owned and operated by individuals and is absolutely general public oriented

Concepts reused:

The concepts that we learnt in the class and used in this application are:

- Lists

- Multiple Intents, getExtra, putExtra

- Various onClicks

- Simple Fragments

- Custom designing

- Linear layout

The above concepts were used throughout the application designing

- Database Concepts

These was used to create a fixed database (which in future will be dynamic) of the medical stores having their details along with the medicine details.

- Google maps activity

Novelty:

The concepts in android studio that we self-learned and used in building this application are:

- Advanced Styling options (Material Library)

This was helpful in giving styles to different activities for example in the project there is a welcome activity which is assigned a different style the main app has different style etc.

- Splash Screen Activity

This was helpful in showing the welcome screen which on starting the app flashes for a while and then you can use the app. Which gives a good impression of the UI of app.

- View Pager

This was helpful in displaying different xml slides created and show them on a single page.

- Various onCreate

This function was used throughout the application.

- Relative Layout, Constraint Layout

Constraint Layout was useful as it helped me putting different layouts in the place where we wanted and utilise the space which was required by that layout and leave the remaining space unused.

- Custom Array Adapters

Different arrays are created for the dots present in the welcome screen to assign them different colours when used/not used.
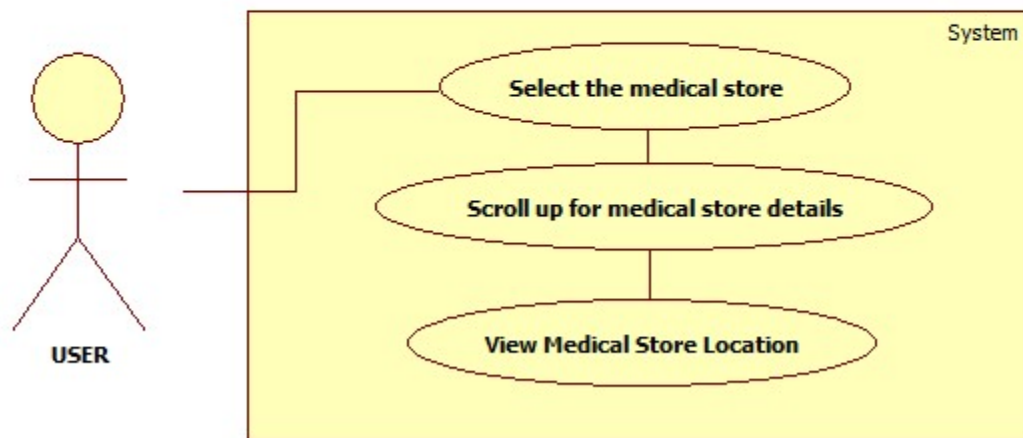
- Options Button

These function was used for the main menu list.
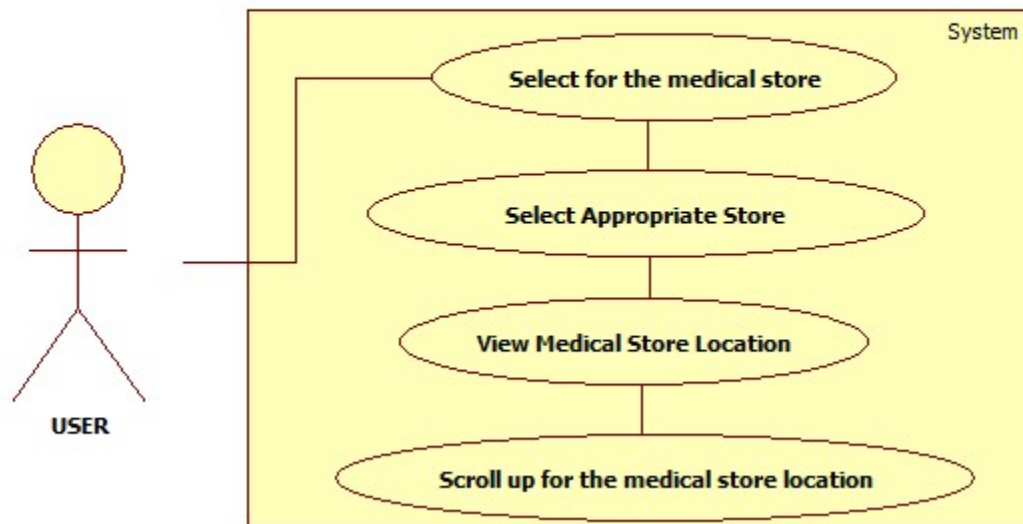
- Places API in Google maps

These function allows to use google maps and place the specific medical store to its assigned coordinates.
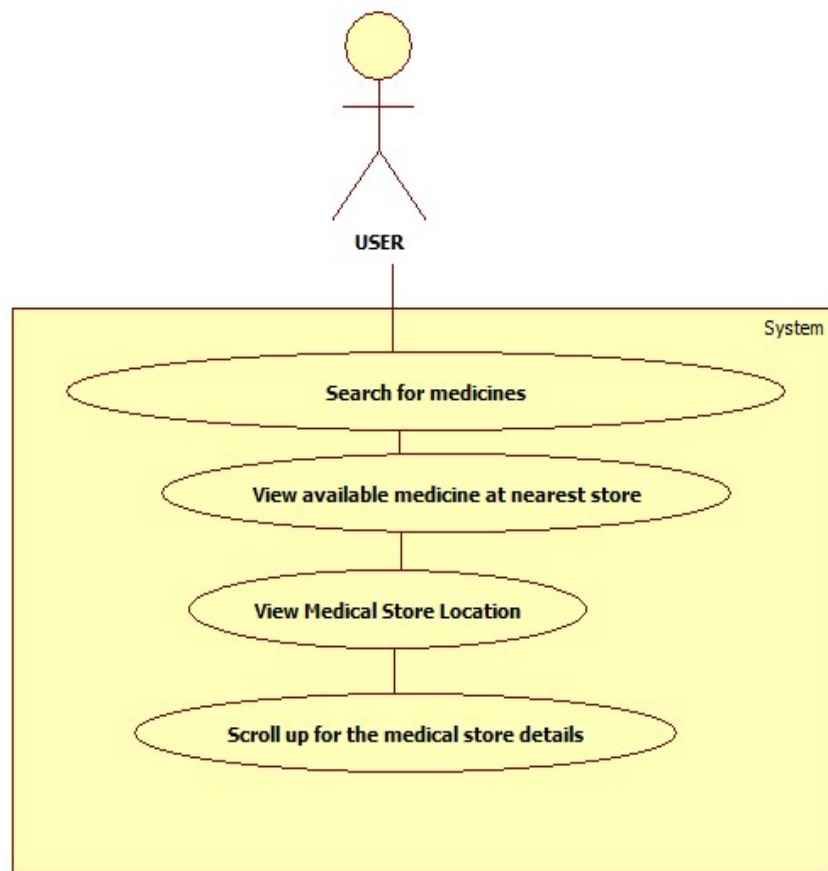
Design (Use Case Diagram)

USE CASE 1

System

USER

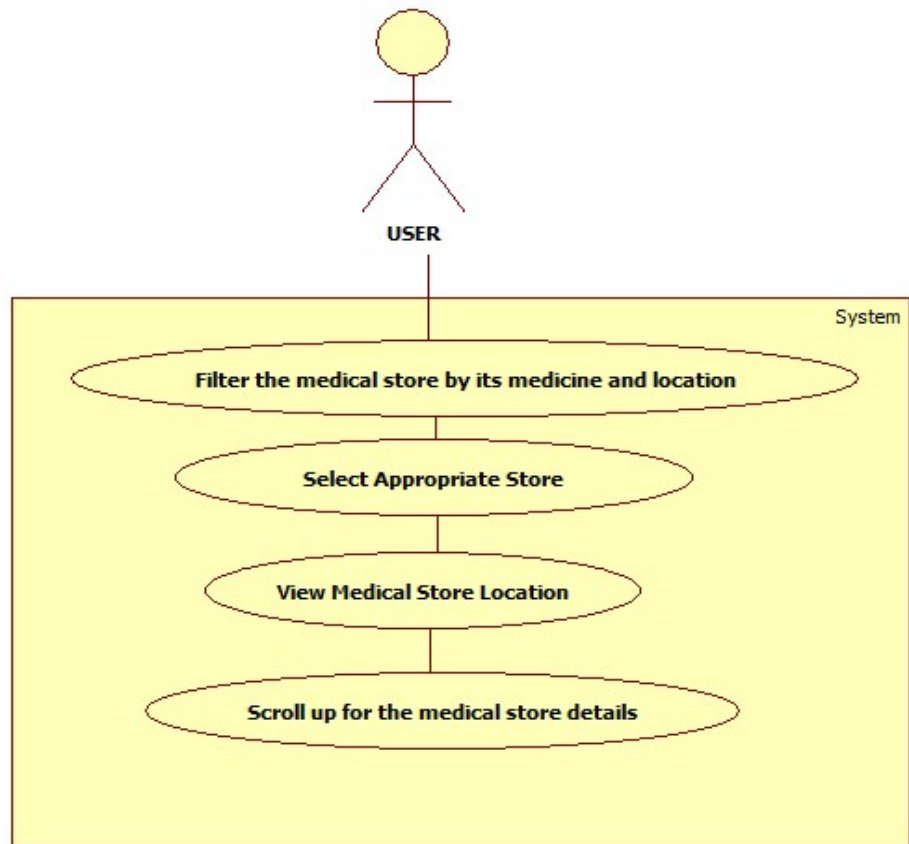- Select the medical store
- Scroll up for medical store details
- View Medical Store Location

USE CASE 2

System

USER

- Select for the medical store
- Select Appropriate Store
- View Medical Store Location
- Scroll up for the medical store location

USE CASE 3

USER

System

Search for medicines

View available medicine at nearest store

View Medical Store Location

Scroll up for the medical store details

USE CASE 4

USER

System

Filter the medical store by its medicine and location

Select Appropriate Store

View Medical Store Location

Scroll up for the medical store details

Data Flow Diagram

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                          ┌─────────────────┐
          ┌───────────────│   Application   │──────────────┐
          │               └─────────────────┘              │
          │                        │                        │
          │                        ▼                        ▼
    ┌──────────────┐      ┌──────────────────┐      ┌──────────────────┐
    │ Enters input │─────▶│ Tracking current │─────▶│  Google Static   │
    │      x       │      │     location     │      │   map query      │
    └──────────────┘      └──────────────────┘      └──────────────────┘


  ┌────────┐    ┌──────────────────┐   ┌──────────────────┐   ┌──────────────┐
  │  user  │◀───│ List of Medicals │◀──│  Conversion to   │◀──│   XML code   │
  │        │    │                  │   │ text using XML   │   │              │
  └────────┘    └──────────────────┘   │     parser       │   └──────────────┘
                                       └──────────────────┘


                ┌──────────────────┐   ┌──────────────────┐   ┌──────────────────┐
                │ Makes selection  │──▶│ Java script Query│──▶│   Google map     │
                │                  │   │                  │   │  display patch   │
                └──────────────────┘   └──────────────────┘   └──────────────────┘
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MediHelp

User Manual

PREFACE

WITH THE RISING DISEASES THEIR CURE AND MEDICINES ARE BEING DEVELOPED. TO MAKE THE AVAILABLE TO THE PATIENTS THERE ARE PHARMACIES AND MEDICAL AVAILABLE, BUT THERE ARE SOME MEDICINES FOR WHICH MEDICALS AND PHARMACIES REQUIRE SOME LICENSE OR SOME APPROVAL FROM THE GOVERNMENT AUTHORITY. SO THE MEDICINES FOR BIG DISEASES LIKE CANCER ARE NOT EASILY AVAILABLE AT ALL THE MEDICAL STORES.

TO EASE THIS OUT, WE HAVE CREATED AN APPLICATION, 'MediHelp', WHICH AIMS TO MAKE THE PATIENTS THIS TYPE OF MEDICINE SELLING MEDICALS PHARMACIES IN THEIR NEAR BY AREA.

WITH THE RISING EMPHASIS ON DIGITAL INDIA AND THE MINIMAL COST AT WHICH INTERNET IS AVAILABLE TO ALL OF US TODAY, WE AT 'MediHelp' BELIEVE THAT THIS APPLICATION WOULD BE HELPFUL AND COME IN HANDY FOR A LOT OF TROUBLED PATIENTS OUT THERE WHO ARE RUNNING FAR AND SPENDING UNNECESSARY AMOUNT FOR THAT.

THE FOLLOWING DOCUMENT IS A USER MANUAL THAT WILL HELP YOU UNDERSTAND ALL THE FUCNTIONALITES OF 'MediHelp'

THANK YOU.

TABLE OF CONTENTS

1.GETTING STARTE
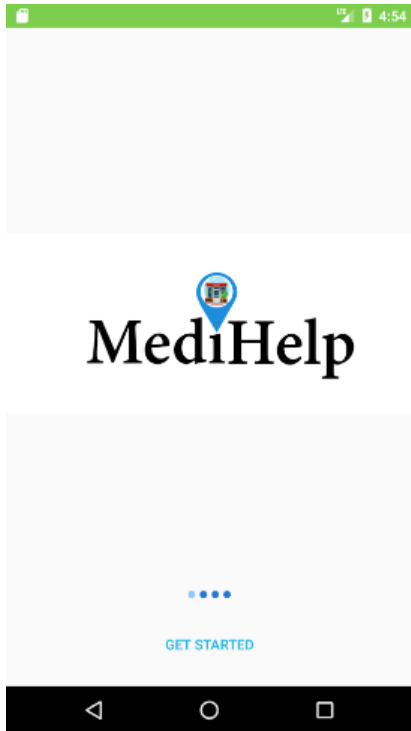
WHEN YOU OPEN THE APPLICATION, THE ABOVE PAGE WILL APPEAR. YOU CAN SWIE LEFT AND HAVE A QUICK VIEW AT DIFFERENT SLIDES WHICH GIVES A BRIEF ABOUT THE FUNCTIONING OF THE APP. THAN WHEN YOU CLICK ON THE "GET STARTED" BUTTON YOU WILL GO TO THE HOME SCREEN OF THE APP.
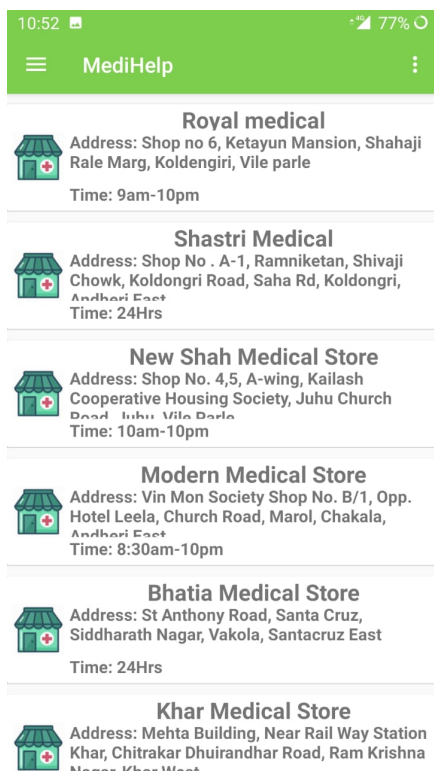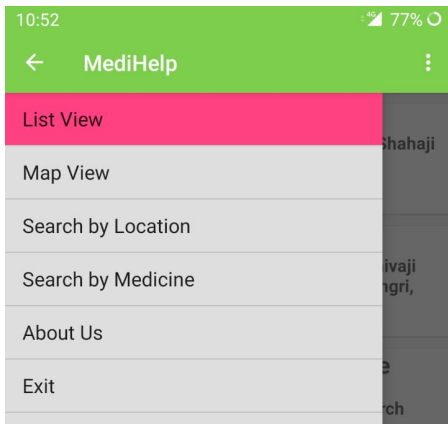

THIS IS THE HOME SCREEN OF THE APPLICATION WHERE YOU WILL FIND THE LIST OF ALL THE MEDICALS THAT ARE SELLING THOSE TYPE OF MEDICINES.
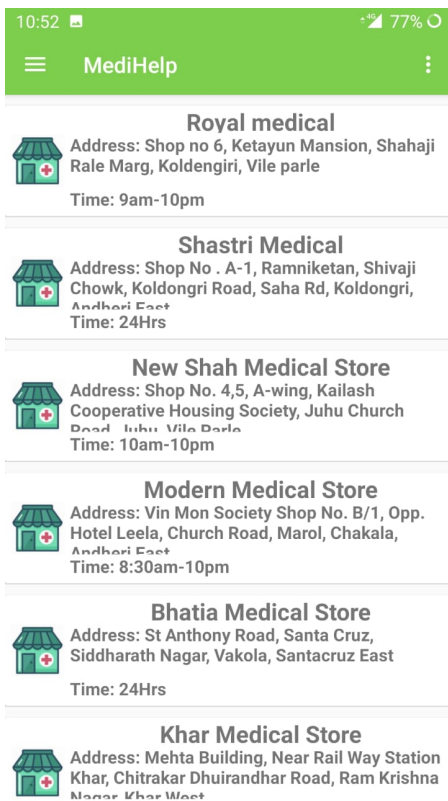
2. MAIN MENU
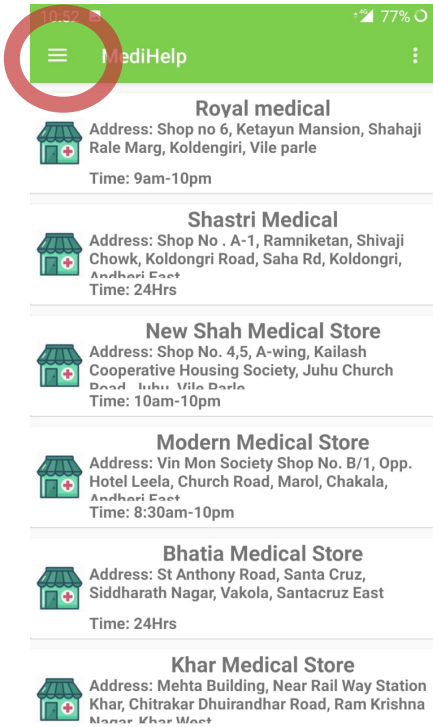
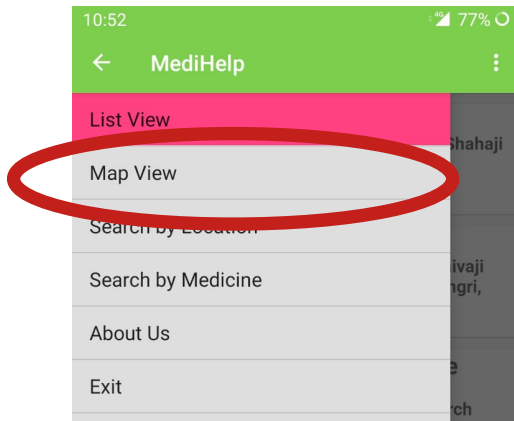CLICKING ON THE HIGHLIGHTED PART THAT IS AN OPTION MENU YOU WILL GET THE MAIN MENU SCREEN WHICH HAS FOLLOWING FUNCTIONS:

1. LIST VIEW

2. MAP VIEW

3. SEARCH BY AREA

4. SEARCH BY MEDICINE

5. ABOUT US

6. EXIT

2.1 LIST VIEW

THE SELECTED ITEM IN THE MENU IS 'LIST VIEW' IT WILL SHOW THE FOLLOWING SCREEN WHICH WILL HAVE THE LIST OF ALL THE MEDICALS AND PHARMACIES NEAR YOUR CITIES.

10:52   77%

←   **MediHelp**   ⋮

List View

Map View

Search by Location

Search by Medicine

About Us

Exit

10:52   77%

☰   **MediHelp**   ⋮

Royal medical
Address: Shop no 6, Ketayun Mansion, Shahaji Rale Marg, Koldengiri, Vile parle

Time: 9am-10pm

Shastri Medical
Address: Shop No . A-1, Ramniketan, Shivaji Chowk, Koldongri Road, Saha Rd, Koldongri, Andheri East
Time: 24Hrs

New Shah Medical Store
Address: Shop No. 4,5, A-wing, Kailash Cooperative Housing Society, Juhu Church Road, Juhu, Vile Parle
Time: 10am-10pm

Modern Medical Store
Address: Vin Mon Society Shop No. B/1, Opp. Hotel Leela, Church Road, Marol, Chakala, Andheri East
Time: 8:30am-10pm

Bhatia Medical Store
Address: St Anthony Road, Santa Cruz, Siddharath Nagar, Vakola, Santacruz East

Time: 24Hrs

Khar Medical Store
Address: Mehta Building, Near Rail Way Station Khar, Chitrakar Dhuirandhar Road, Ram Krishna Nagar, Khar West
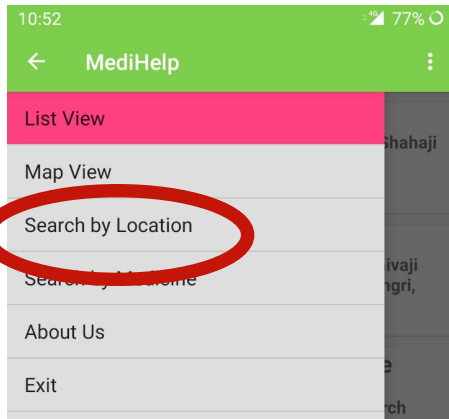
2.2 MAP VIEW

ON SELECTING MAP VIEW FROM THE MENU LIST YOU WILL BE DIRECTED TO THE FOLLOWING SCREEN WHICH IS A GOOGLE MAP WHICH WILL SHOW ALL THE MEDICALS AND PHARMACIES LOCATION AND WILL SHOW THE WAY AND DISTANCE OF A SPECIFIC MEDICAL FROM YOUR LOCATION.
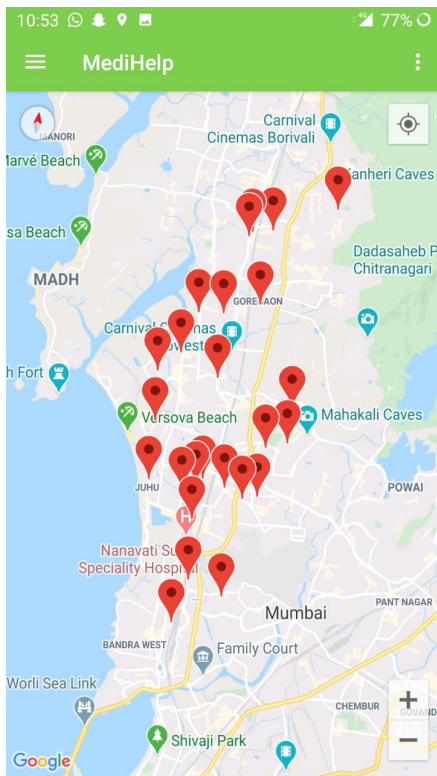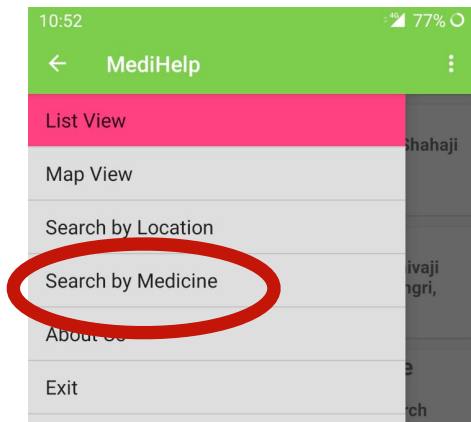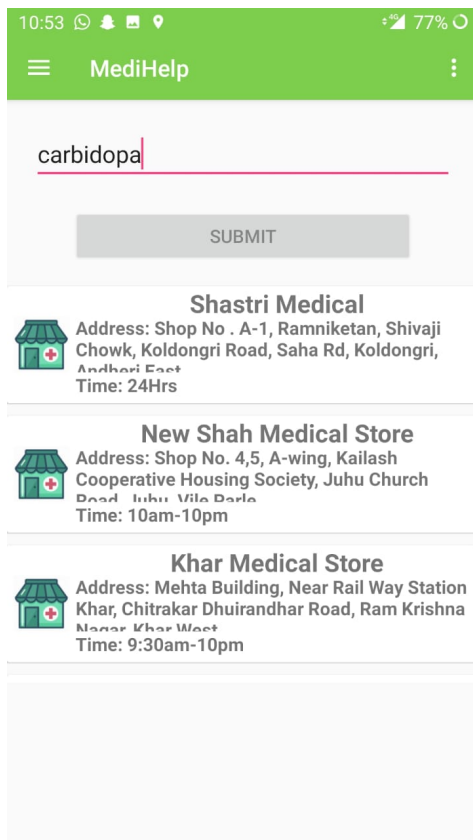
2.3 SEARCH BY LOCATION

ON SELECTING THE HIGHLIGHTED PART FROM THE MENU LIST YOU WILL BE DIRECTED TO THE BELOW SCREEN WHERE YOU CAN SEARCH THE MEDICALS ON THE BASIS OF YOUR AREA. YOU JUST HAVE TO TYPE THE NAME OF YOUR AREA IN THE SEARCH FIELD AND HIT THE SEARCH BUTTON YOU WILL GET THE LIST OF THE MEDICALS AND PHARMACIES LOCATED IN YOUR AREA.
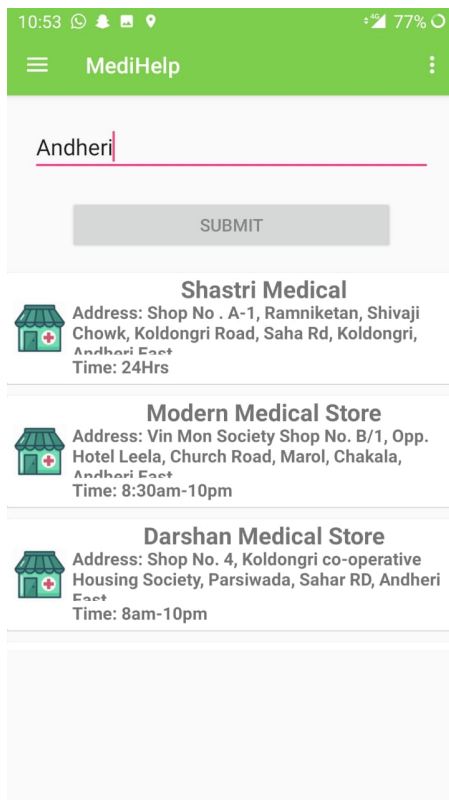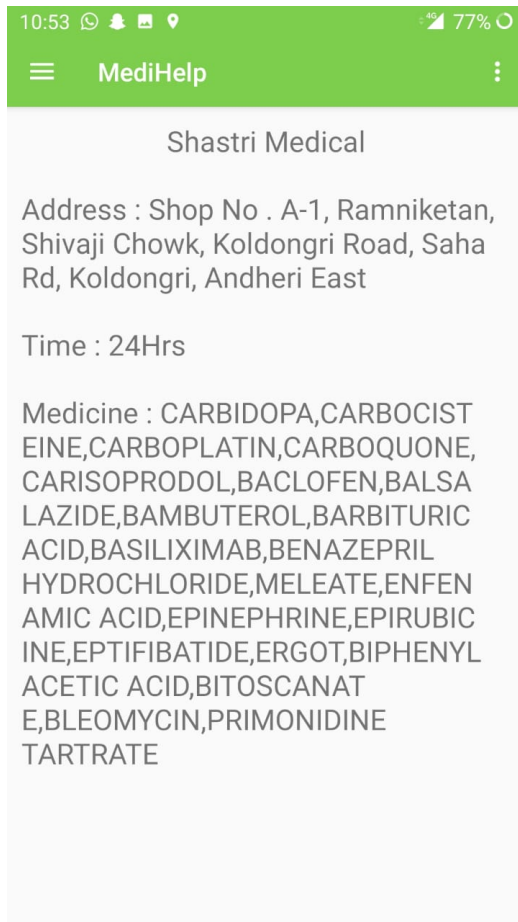
2.4 SEARCH BY MEDICINE

ON SELECTING THE HIGHLIGHTED PART FROM THE LIST OF MENU YOU WILL BE DIRECTED TO THE FOLLOWING SCREEN WHERE YOU CAN SEARCH THE MEDICALS BY THE NAME OF THE MEDICINE YOU REQUIRE.YOU JUST NEED TO ENTER THE NAME OF THE MEDICINE AND HIT ON THE SEARCH BUTTON YOU WILL GET THE LIST OF THE MEDICALS WHICH ARE SELLING THAT MEDICINE.

≡ **MediHelp** ⋮

Shastri Medical

Address : Shop No . A-1, Ramniketan, Shivaji Chowk, Koldongri Road, Saha Rd, Koldongri, Andheri East

Time : 24Hrs

Medicine : CARBIDOPA,CARBOCIST EINE,CARBOPLATIN,CARBOQUONE, CARISOPRODOL,BACLOFEN,BALSA LAZIDE,BAMBUTEROL,BARBITURIC ACID,BASILIXIMAB,BENAZEPRIL HYDROCHLORIDE,MELEATE,ENFEN AMIC ACID,EPINEPHRINE,EPIRUBIC INE,EPTIFIBATIDE,ERGOT,BIPHENYL ACETIC ACID,BITOSCANAT E,BLEOMYCIN,PRIMONIDINE TARTRATE

2.4.1 DETAILS OF MEDICAL

FROM THE ABOVE OPTIONS YOU GET A LIST OF MEDICALS ON THE BASIS OF YOUR SEARCH. SO FROM THAT LIST WHEN YOU CLICK ON ANY OF THE MEDICALS YOU WILL BE DIRECTED THE FOLLOWING SCREEN WHICH WILL DISPLAY THE DETAILS OF THAT MEDICAL INCLUDING ITS ADDRESS HOW TIME IT REMAINS OPEN AND THE LICENSED MEDICINES WHICH IT IS ALLOWED TO SELL.
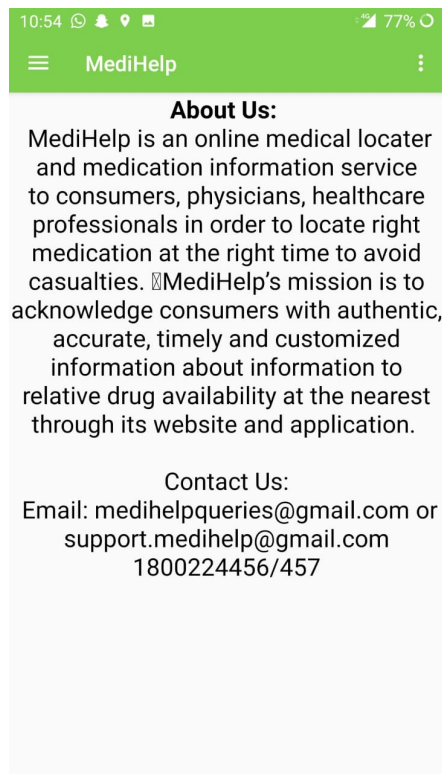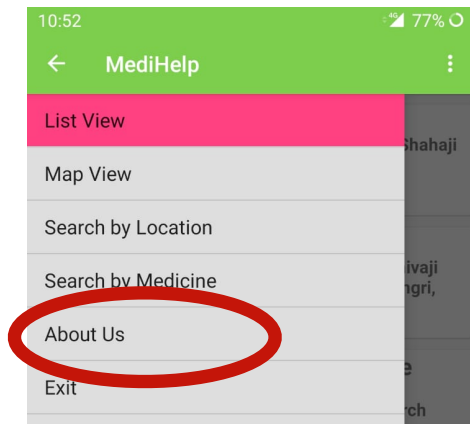
2.5 ABOUT US

ON SELECTING THE HIGHLIGHTED PART FROM THE LIST MENU YOU WILL BE DIRECTED TO THE BELOW SCREEN WHERE YOU WILL FIND SOME DETAILS ABOUT US AND DETAILS THROUGH WHICH YOU WILL BE ABLE TO CONTACT US IF THERE IS ANY ISSUE REGARDING THE WORKING OF THE APP.
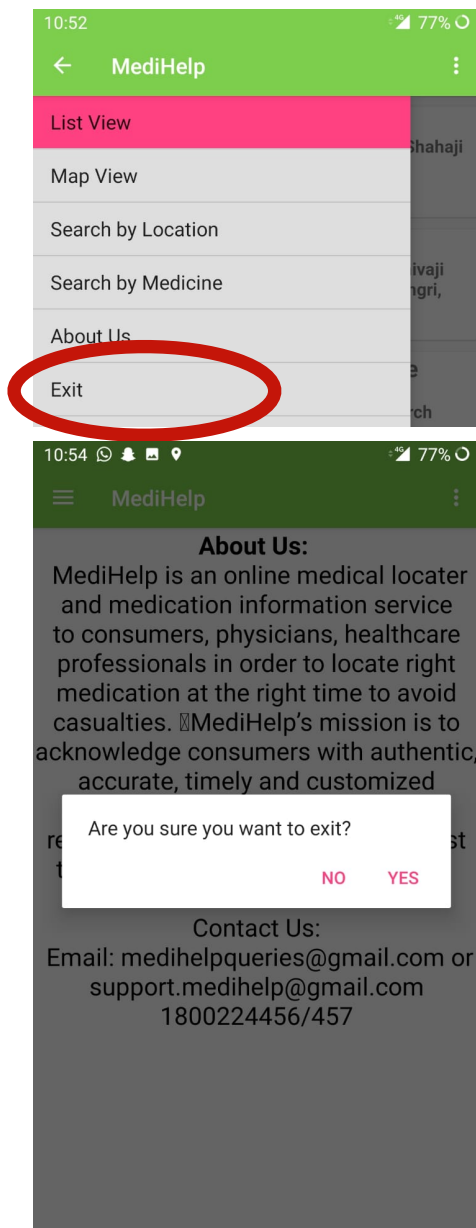
2.6 EXIT

ON SELECTING THE HIGHLIGHTED OPTION FROM THE MENU LIST YOU WILL BE SHOWN A POP UP AND ASKED IF YOU WANT TO EXIT THE APP. IF YOU CLICK YES YOU WILL EXIT THE APP IF YOU CLICK NO YOU WILL STAY IN THE APP AND THE SAME MENU LIST WILL BE APPEAR AGAIN.

IN THE WELCOME SECTION THE SLIDE VIEW IS NOT WORKING PROPERLY AS IT HAS GOT SOME ANDROID VERSION ISSUES SO IT WILL BE RESOLVED SOON. SO CURRENTLY YOU DIRECTLY JUST CLICK ON GET STARTED BUTTON TO START USING THE APP.

ALSO AFTER THE INSTALLATION OF THE APP BEFORE STARTING THE APP ALLOW THE APP TO USE YOUR LOCATION AS IN TO EFFICIENTLY USE THE LOCATION SERVICE.