# README FOR TAKECARE

## Contents

## Setting Up the App

Since client is the end-user, setup is fairly easy, just install TakeCare.apk on your phone.

Since machine IPs are not fixed and a static IP is not bought, the app will ask server IP in the beginning. In actual release IP will be hardcoded in the app. Your machine and mobile should be on the same network.

**NOTICE:** The default IP already filled in the field is most probably working and has server built into it on the internet. So you can skip building a server and directly test the apk, via Connecting it to the internet. The server might be slow so please wait after performing each action.

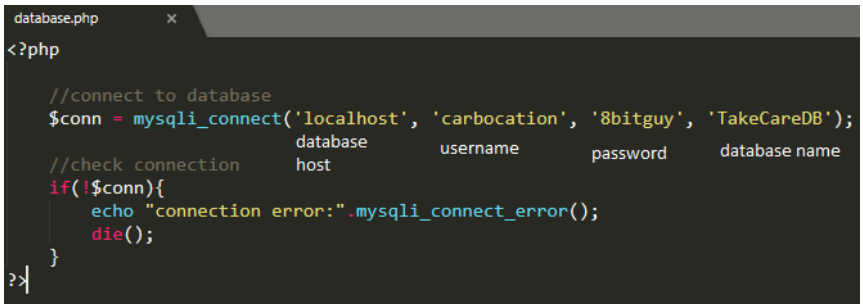
A TakeCare Account needs to be created by clicking the register button.

**Diagnosing:** If there are errors like Internet not available or connection refused, then surver might not be configured correctly.

If Errors like Authentication failure or simply failure!!! Or connection error:Database message, then database might not be configured correctly.

## Setting Up the Server (NOT for end-user)

- Enclosed in the project zip file there is a folder named “TakeCare”. This folder contains the full website that needs to be run on an apache based web server with PHP and MySQL installed.
- Copy this folder to the server location.
- Change database host address,  database username and password in database.php




## Making a Server (If you have no server to put on to)

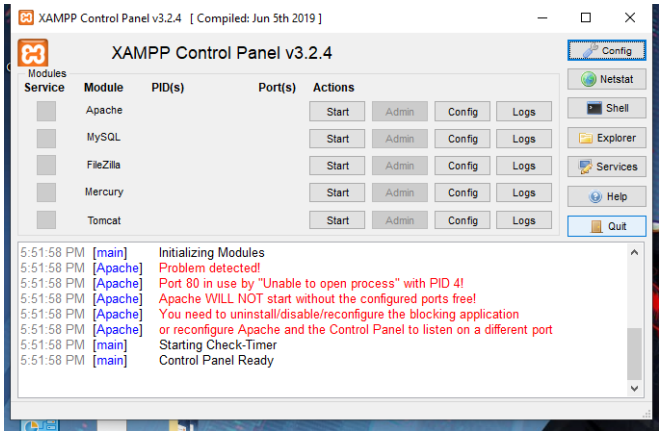


- apachefriends.org/index.html for your OS

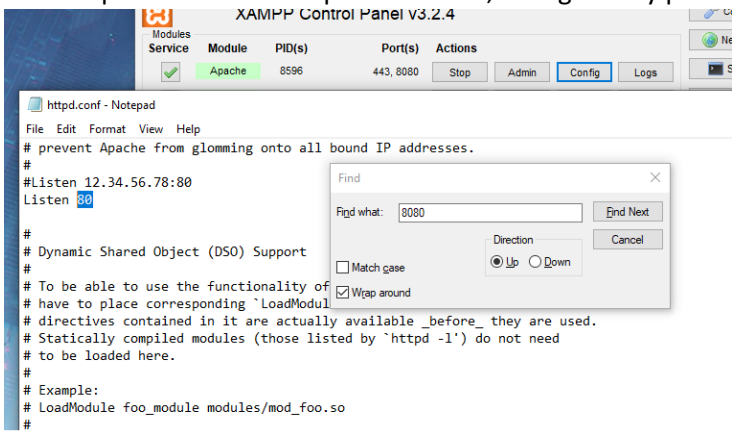
`

## On Windows

- Run XAMPP installer as administrator and proceed the installation installing all features and on default location C:\\XAMP
- Run XAMPP control panel as administrator



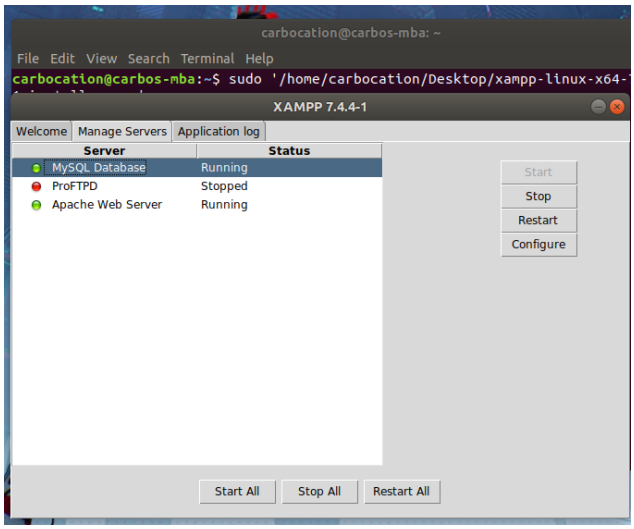

- Start Apache and MySQL
- if Apache is not able to start because of error “Port 80 in use”, change the port by clicking config, then httpd.conf. This will open a text file, change every port from 80 to some other port like 8089




- replace every instance of port 80 by 8080
- Start Apache.
- Verify that Apache is running by going to http://localhost:portNo in a browser, you should get a XAMPP homepage
- Place “TakeCare” folder in XAMPP_install_directory (c:\XAMPP)\htdocs

## On Linux

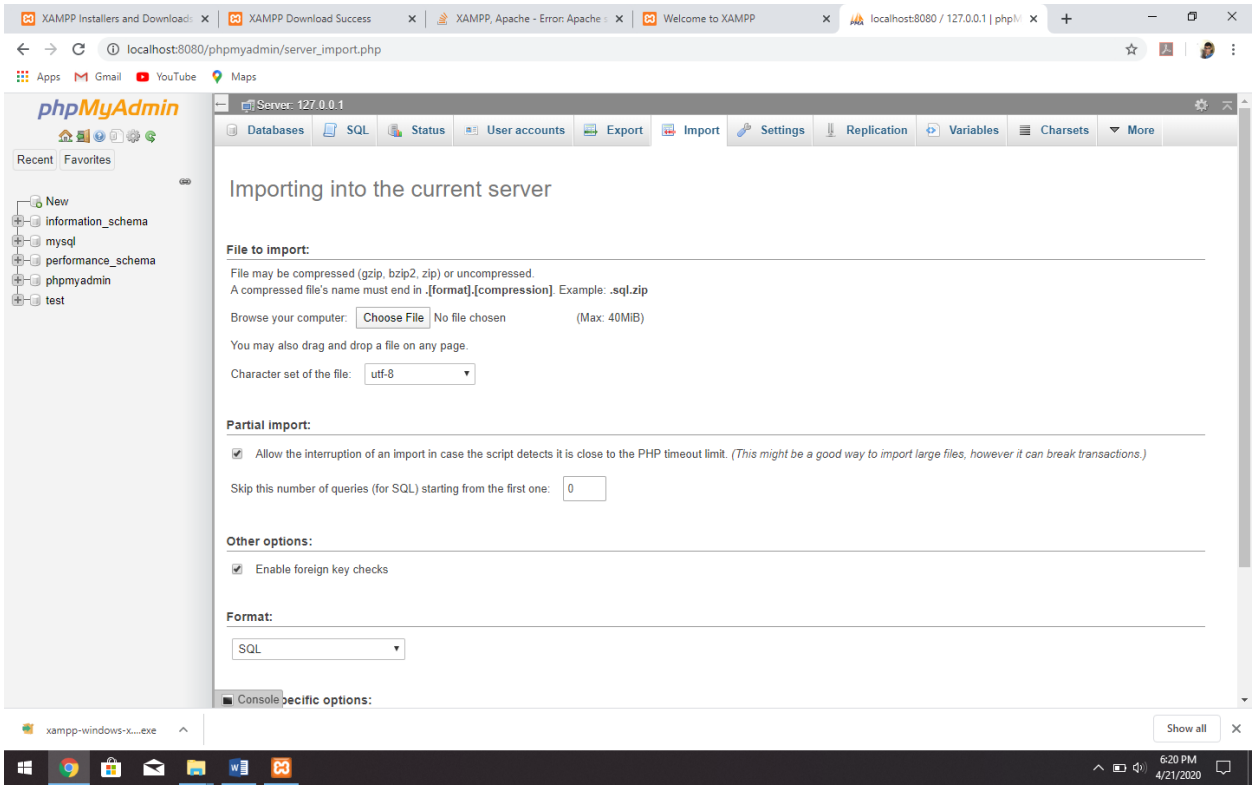
- Set Downloaded XAMPP .run file Executable by typing sudo chmod +x /path_to_runfile/runfile.run in a terminal window.
- Install under administrator privileges by typing sudo /path_to_runfile/runfile.run
- Type your password if needed
- Install XAMPP with full features
- After installation run XAMPP control panel by going to /opt/lampp. Run it as sudo



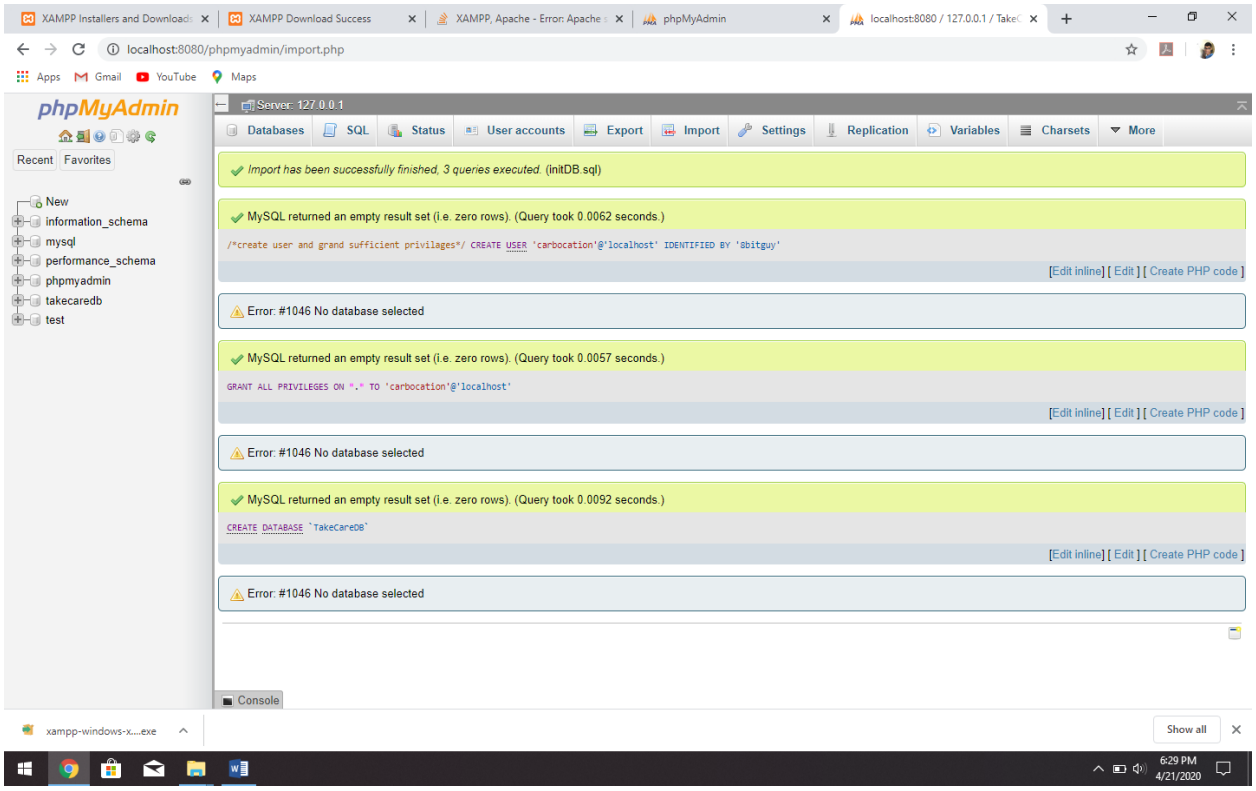

- Start MySQL and Apache in manage servers tab. You can change the port by hitting configure button
- Verify that Apache is running by going to http://localhost:portNo in a browser, you should get a XAMPP homepage
- Place “TakeCare” folder in /opt/lampp/htdocs

## Configuring Database

- Go to http://localhost/phpmyadmin
- Click on import tab




- Click on choose file, select initDB.sql fom TakeCare Folder
- Click on Go on botton right corner




- On successful execution 3 queries will be executed, first creating user, second granting privilages, and third creating database
- The last step is creating users table. Just type http://localhost/TakeCare/createUsers.php.
- You will get a success message on page if everything  goes right

TO ACCESS DATABASE MAKE SURE FIREWALL OF HOST MACHINE OR NETWORK IS TURNED OFF.

If any issues are encountered regarding creating of server please contact at maitreygovind@gmail.com, phone: 9779063234

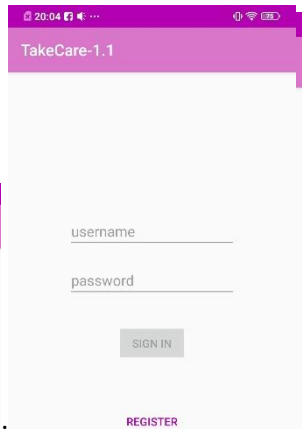
## Using The App

***On opening the TakeCare-1.1 app on your smartphone, You need to set server IP, go with default given IP for immediate testing purpose.***

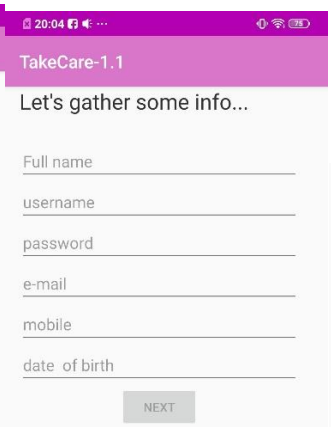
*** IP to be hardcoded when app in final production, this screen to be removed in production.

Then, you will be presented with Sign-In screen. You can sign-In with an existing account or register new one


Enter IP




Sign In



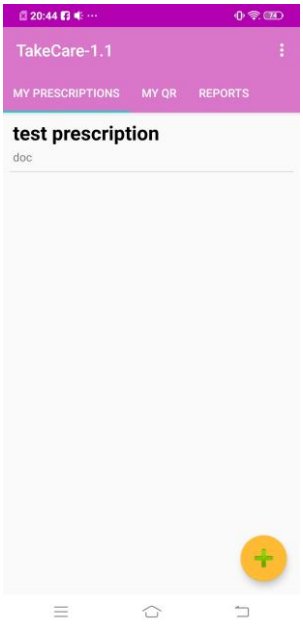

User Registration

Register Phase I


User Registration

Register Phase II

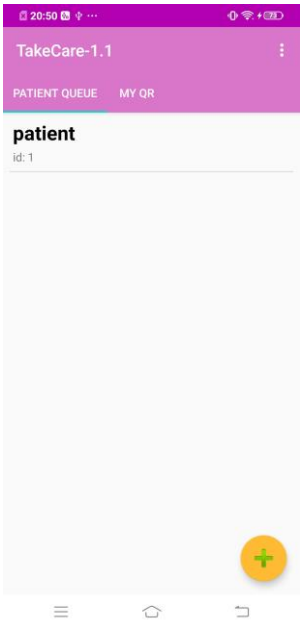
After you sign in, you will be presented with a user dashboard based on your user-type.




Patient


Doctor


Chemist

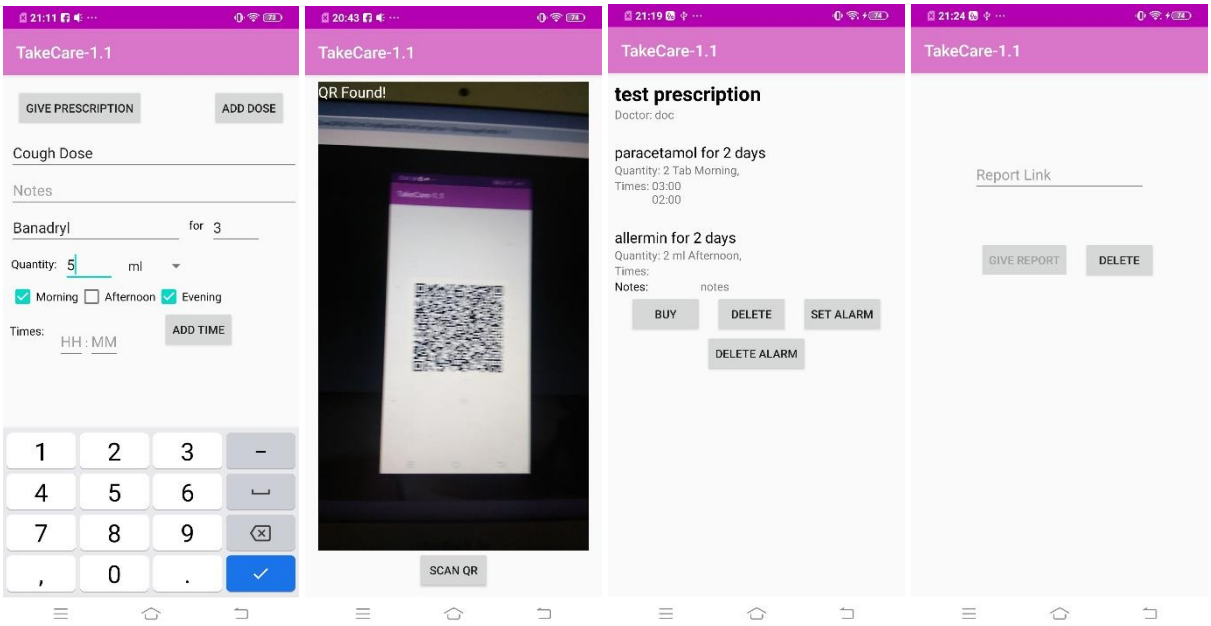



Pathologist

QR code can be scanned by pressing “+” button. Patient Can accept prescription through scanning QR generated by doctor. Doctor can generate QR for a specific prescription by pressing Make Prescription button.

The 3-dotted context menu in the top right corner provides functionality for updating and viewing user information.

Doctor Can make Prescription through a very easy prescription building interface guided with hints, and even get QR codes printed for common prescription for instant scanning when patient comes.




| Prescription Builder | QR code Scanner | Prescription Viewer | Give Reports |
|---|---|---|---|

Patient can set Alarms, or buy prescription inside Prescription Viewer. Pathological labs can send reports to the Queue Menu in Dashboard.

## Known Issues (Important)

- When starting camera in app for the first time, after clicking allow for camera privilege a black screen might restart the app to fix it. This has to do with vendor specific permission handling.

## Source Code Structure and Compiling App

All source code for the app is contained in the “TakeCare11” folder which is an Android Studio Project. Source files are located in app/src/main/java folder. And follows the structure

- SRCROOT (app/src/main/java/com/example/takecare_11)
  - storageclasses
    - Package database.api
    - Package patient
    - Package doctor
    - Package pathologist
    - Package chemist
  - ui
    - Each user has a Package
    - Notifications
    - Alarms
  - register

- User Registration Form
- Dedicated Form For each user type

- signin
  - SignIn Activity
  - SignIn Token
- Activities Required for startup (Main Activity, Begin Activity)

Everything OUTSIDE storegeclasses extents Android Activity or a sub Activity (Fragment) class Provided by Android API hence is platform specific. All Classes specified according to Software Requirement are Implemented in storageclasses. All Sequences and activities are implemented as Android Activity framework. “database.api” handles all the networking components.

The Project can be Compiled via opening “TakeCare11” folder in Android Studio and Running Build.