Distributed HealthCare System

A project utilizing Python3,Nginx Reverse Proxy,Flask,sqllite3,winsock,BSDSocket.


NGINX


python

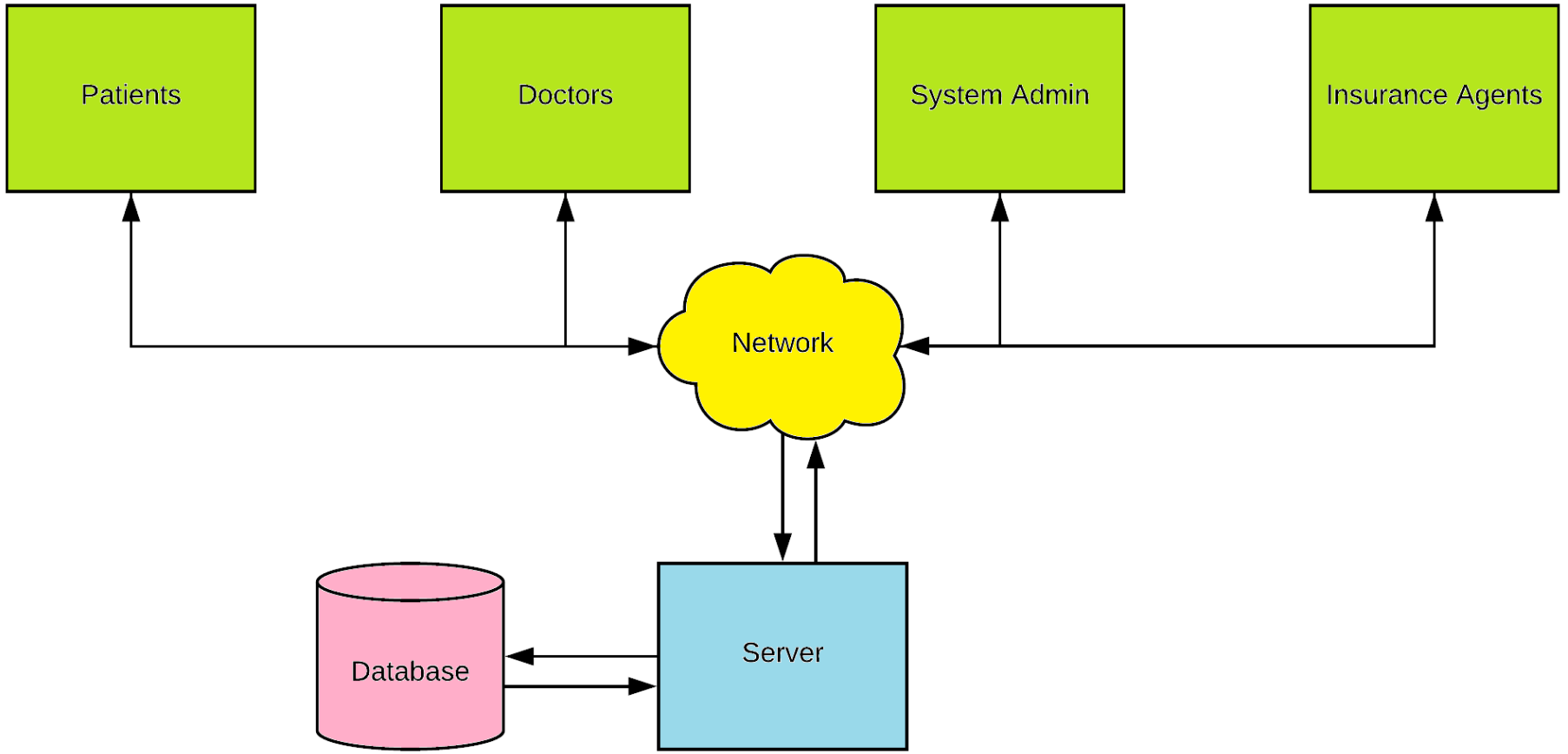

Windows
Sockets


Flask
web development,
one drop at a time


SQLite


HTML
CSS
JS
3
5
5

Components

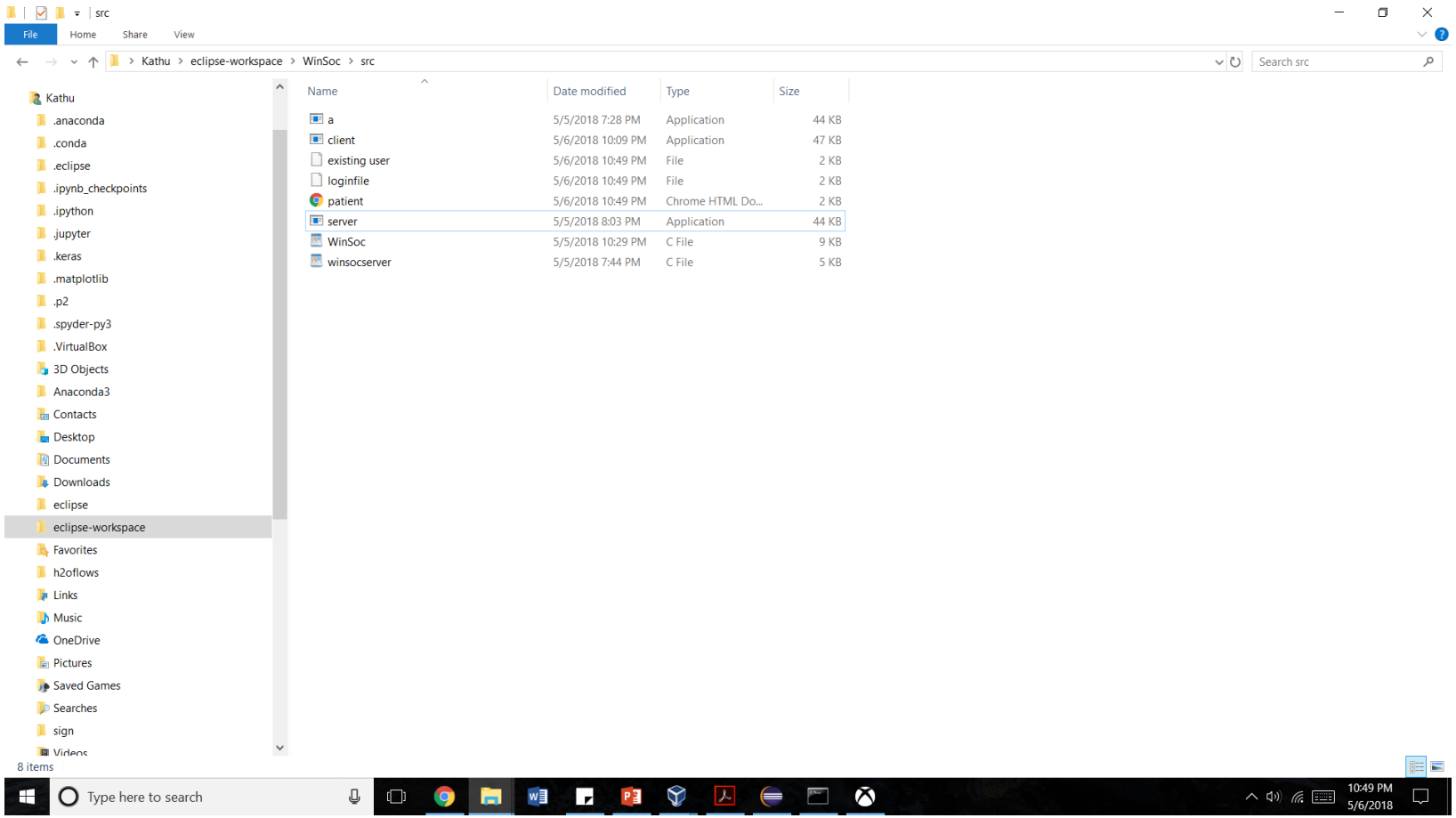


Architecture

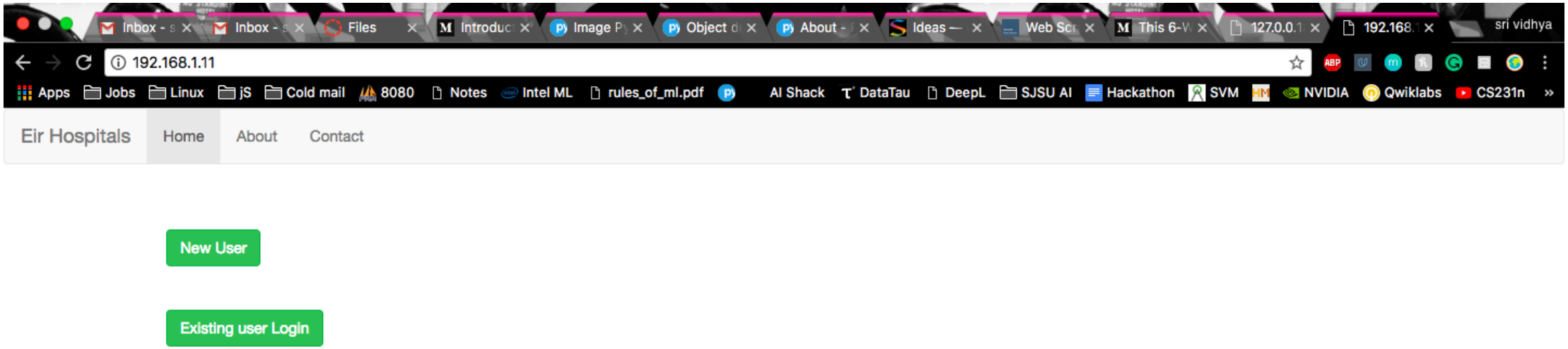
Winsock

```
                </form>
                <br>
                <br>
                <form action="http://192.168.1.11/book_appointment" method="POST" role="form">
                        <button type="submit" class="btn btn-success">Book Appointment</button>
                </form>
                <br>
                <br>
                <form action="http://192.168.1.11/cancel_appointment" method="POST" role="form">
                        <button type="submit" class="btn btn-success">Cancel Appointment</button>
                </form>
                <br>
                <br>
                <form action="http://192.168.1.11/view_appointment" method="POST" role="form">
                        <button type="submit" class="btn btn-success">View my Appointments</button>
                </form>
                <br>
                <br>
                <form action="http://192.168.1.11/scan_report" method="POST" role="form">
                        <button type="submit" class="btn btn-success">Get Scan report</button>
                </form>
                <br>
        </div>
        <br>

</body>

</html>bytes read 1576

C:\Users\Kathu\eclipse-workspace\WinSoc\src>gcc WinSoc.c -o client -lws2_32 -lmswsock -ladvapi32
```

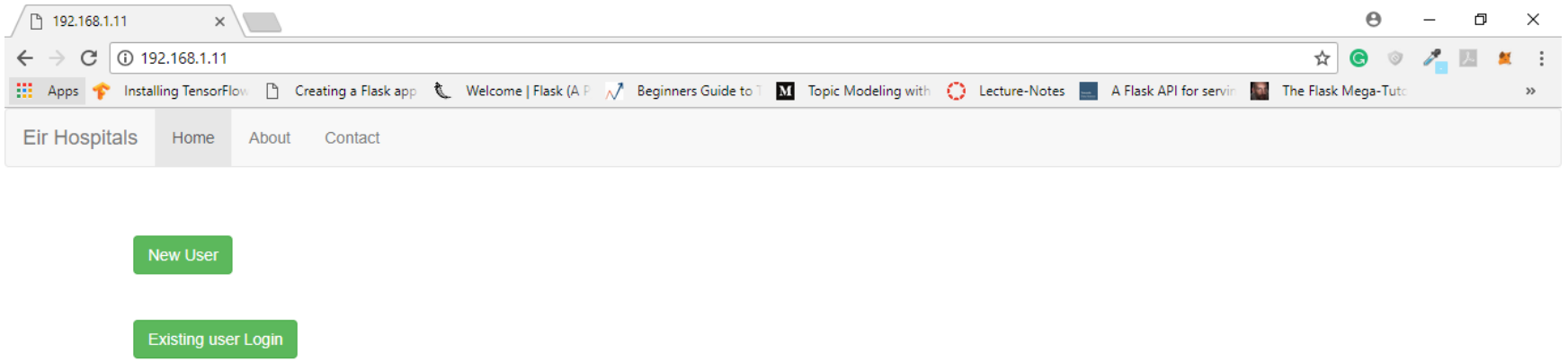
Winsock Files



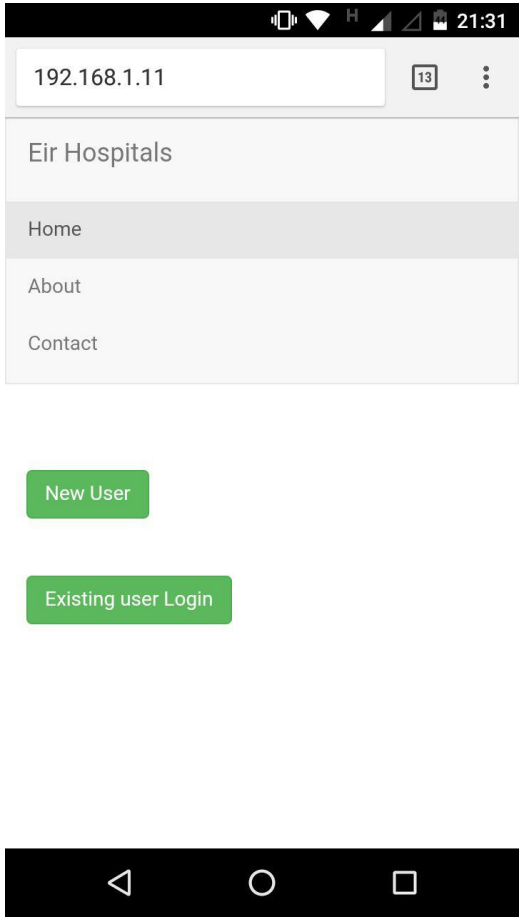
Winsock output from Mac



Winsock output on Windows



Winsock Output on Phone



Challenges faced

01

Integrating the webserver with BSD and Winsock clients.

02

Installing a reverse proxy mechanism for the application.

03

Debugging Winsock API.

04

Creating a session for users.

Things learnt

- Using Flask as a webserver for integrating web application to socket based clients.
- Enabling Nginx as a reverse proxy mechanism over the application.
- Creating Winsock clients to access the web server.