Local Connect

Abstract Idea

During the pandemic situation the government shuts down all communication systems like network, cell phone, Internet , etc in order to overcome the rumours from spreading and get a hold of the situation. Due to this we cannot communicate with each other, the only way to communicate is via In-Person (Face to Face) talk. To tackle this problem we have come with the project "Local Connect". "Local connect" runs a server on Raspberry pi and this Raspberry pi is connected to a network system, So all the devices which are connected to this network are able to access this server and these devices can communicate with each other

Working

1. Raspberry Pi creates a local web server which is connected to our network system.

2. Using Router configuration we have assigned a private IP address, using this IP address all the devices which are connected to our network system can access this web-server.

3. An anonymous web chat application is running on this local server.

4. This application contains a join screen, enter name of chatroom and you will be redirected to the chatroom.

5. Pick a username in the chatroom and start communicating with your colleague.

Multiple Users

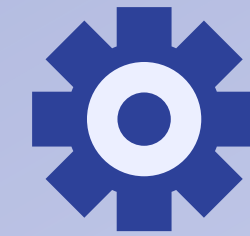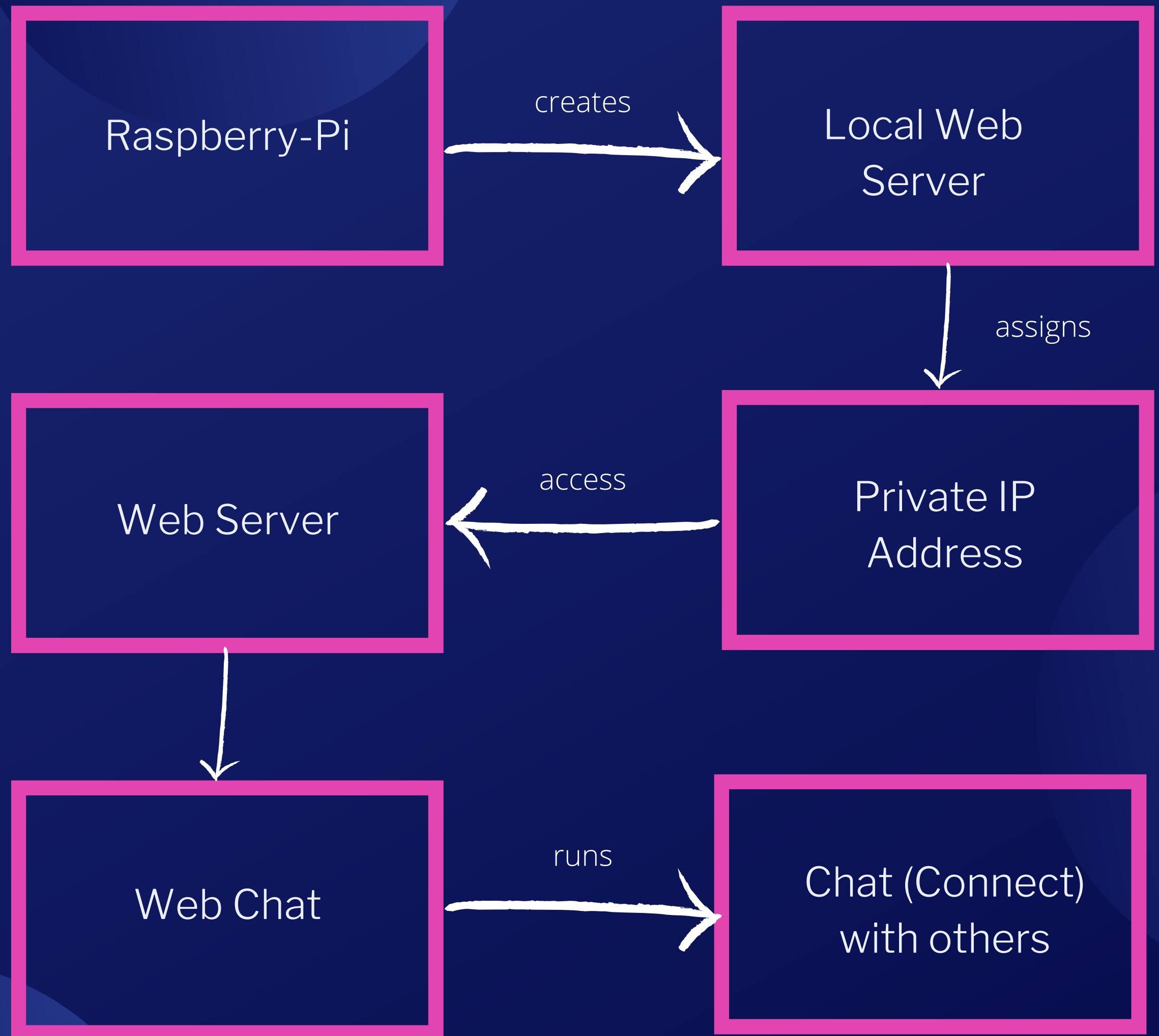To connect prople

No internet connection required

Isolated Chat-Rooms

Goals

Flow chart

Raspberry-Pi —creates→ Local Web Server

Local Web Server —assigns→ Private IP Address

Private IP Address —access→ Web Server

Web Server → Web Chat

Web Chat —runs→ Chat (Connect) with others

Specifications

Hardware:

-Raspberry Pi

Software Tech Stack:

-Python3

-Django

-Channels

-WebSocket

-HTML

-CSS

-JS

Pathak Pratik

Back-End developer(Leader)

Vidya Rautela

Front -End Designer (UI)

Simran Batada

Chatroom Designer(UI)

Shruti Lade

UX/UI development | Documentation

Our Team