## Project Development

## Delivery Of Sprint - 4

| Date | 10-11-2022 |
|---|---|
| Team ID | PNT2022TMID38953 |
| ProjectName | Project-IoT Based Safety Gadget For Child Safety Monitoring & Notification |
| MaximumMarks | |

## WEB USER INTERFACE

## FIREOUTH.HTML

## HTML,CSS AND JS CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <link rel="stylesheet" href="/FIREOAUTH.css">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/nprogress/0.2.0/nprogress.min.css">
    <link rel="shortcut icon"
href="https://raw.githubusercontent.com/tharunoptimus-pd/firepwa/main/favicon.ico?token=GHSAT0AAAAAABR46
HVJ5M5L3QGFRZRQXOISYUJUWAA" type="image/x-icon">
    <style>
      html, body
      {
          height: 100%;
          margin: 0;
          font-family: -apple-system, BlinkMacSystemFont,"Segoe
UI", Roboto, Oxygen,
```

```css
            Ubuntu, Cantarell, "Open Sans", "Helvetica Neue",sans-
serif;
        font-weight: 300;
    }


    a {
        text-decoration: none;
        color: #007bff;
        font-weight: 500;
        font-size:  1.2rem;
    }


    h3 {
        font-size: 1.4rem;
    }


    h3, h4 {
        margin: 0;
        padding: 0.3rem 0;
    }


    .wrapper { display:
        flex;
        flex-direction: column;
        align-items: center;
        justify-content: center;
        height: 100%;
        text-align: center;
    }


    .oneClickSignin { padding:
        0.5rem;
        border: 1px solid #44444444;
        border-radius: 5px;
        box-shadow: 0 0 3px 0px #44444444;
        opacity: 0.2;
        pointer-events: none;
    }
```

```css
.qrcode { opacity:
    0.1;
}


.learnAboutFire { padding-
    top: 1.25em;
}


.qrHolder {
    display: none;
    margin-top: 3rem;
}


.qrContainer {
    align-items: center;
    display: flex;
    justify-content: center;
    padding: 8px;
    margin: 2rem auto;
    box-shadow: 0 0px 6px 1px rgb(0 0 0 / 16%);
    border: 1px solid #44444444;
    border-radius: 6px;
    width: 200px; height:
    200px;
}
</style>
<title>Fire OAuth</title>
<script>
    if (window.location.hostname !== "localhost") {if
        (location.protocol !== "https:") {
            location.replace(
                `https:${location.href.substring(location.protocol.length
                )}`
            )
        }
    }
</script>
```

```html
</head>
<body>
  <div class="wrapper">
    <h3 class="pageTitle">Login with SAFETY</h3>


    <div class="qrAuthorize">
      <h4 class="subTitle">Scan QR from your Fire OAuthApp</h4>


      <div class="qrContainer">
        <canvas id="qr-code" class="qrcode"></canvas>
      </div>
    </div>


    <div class="oneClickSignin">
      <h4>Have Fire PWA on this device?</h4>
      <a target="_blank" id="authorizeOverLink"
href="https://firepwa.netlify.app/authorize?sessionId"
rel="noopener">Click to Authorize </a>
    </div>


    <div class="learnAboutFire">
      <a target="_blank" href="https://fireoauth.netlify.app"
rel="noopener">Learn More about SAFETY</a>
    </div>
  </div>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/nprogress/0.2.0/nprogress.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/qrious/4.0.2/qrious.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/socket.io/4.2.0/socket.io.js"></script>
  <script>
```

```
const FIRE_API_KEY = "635b790a3bcc6b59c4b772d0"const
FIRE_ENDPOINT =
"https://fire.adaptable.app/api/apis/generate"
const CHANNEL_NAME = "fireOAuthChannel"const
broadCastingChannel = new
BroadcastChannel(CHANNEL_NAME)
const FIRE_SERVER_SOCKET_ENDPOINT =
"https://fire.adaptable.app"
let socket = io(FIRE_SERVER_SOCKET_ENDPOINT)


let qr


let qrcode = document.querySelector(".qrcode")let
oneClickSignin =
document.querySelector(".oneClickSignin")
let pageTitle = document.querySelector(".pageTitle")let
subTitle = document.querySelector(".subTitle")


function setOpacity(opacity) { oneClickSignin.style.opacity =
    opacity oneClickSignin.style.pointerEvents = opacity ===
"1" ? "auto" : "none"
    qrcode.style.opacity = opacity
}


async function getSessionID() {let
    response
    try {
        response = await
fetch(`${FIRE_ENDPOINT}/${FIRE_API_KEY}`, {
            method: "GET",
            headers: {
                "Content-Type": "application/json",
            }
        })
    } catch (error) {
        console.log(error)
        return null
    }
```

```javascript
        let data = await response.json()
        let { sessionId, chatRoomId } = data
        return { sessionId, chatRoomId }
    }


    function generateQR(value) {(qr =
        new QRious({
            element: document.getElementById("qr-code"), size: 200,
            level: 'M', value:
            value,
        }))
    }


    function changeHREF ({sessionId, chatRoomId}) {let
        firePwaUrlHostname =
"https://firepwa.netlify.app"let
        originURL =
encodeURIComponent(window.location.origin)


        let url =
`${firePwaUrlHostname}/authorize.html?sessionId=${session
Id}&chatRoomId=${chatRoomId}&url=${originURL}`
        let a =
document.getElementById("authorizeOverLink")
        a.href = url
    }


    async function fire() {
        NProgress.set(0.4)
        let { sessionId, chatRoomId } = await getSessionID()


        if(sessionId === undefined || chatRoomId === undefined ||
sessionId === null || chatRoomId === null) {
            pageTitle.innerHTML = "Something went wrong
"
```

```javascript
                subTitle.innerHTML = "Please try again later "return
            }


            setOpacity("1")



            NProgress.done()let
            data = {
                sessionId,
                url:   encodeURIComponent(window.location.origin)
            }
            data = JSON.stringify(data)
            generateQR(data) changeHREF({sessionId,
            chatRoomId})socket.emit("join room",
            sessionId)
        }



        fire()



        socket.on("trusted token", (token) => {let data



            = {}
            data.success = true
            data.token = token


            broadCastingChannel.postMessage(data)


            window.close()
        })
    </script>
</body>
</html>
```
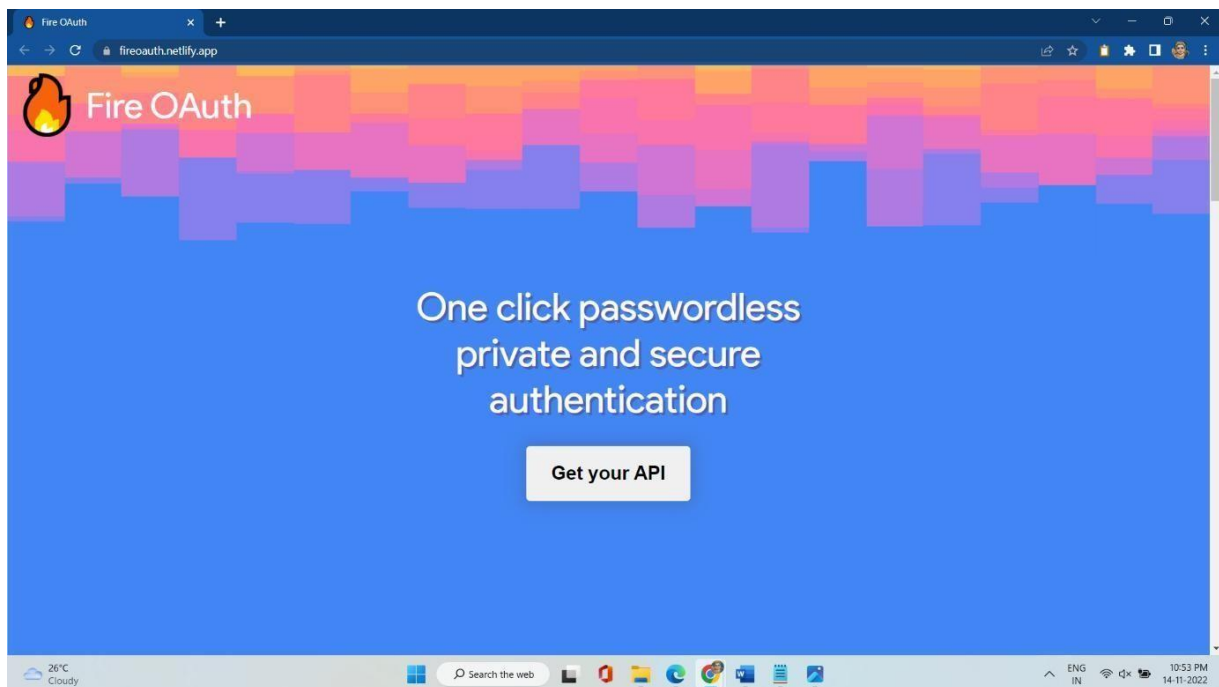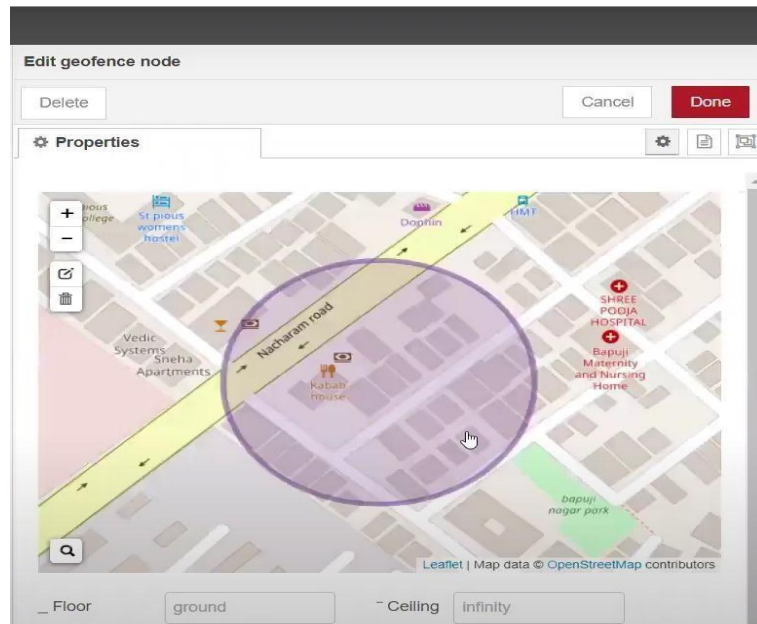
**OUTPUT:**



GEOFENCE NODE:

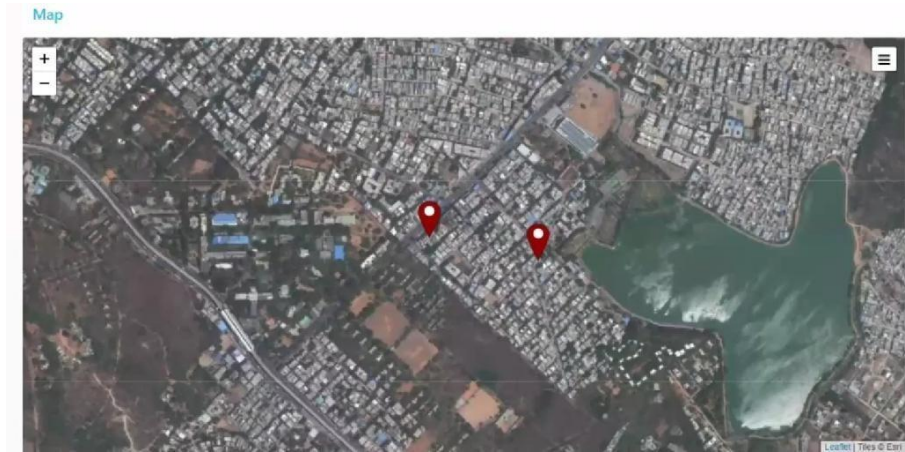## LOCATION:

After running the script, the web UI shows "Child is not in the particular area"



Result: successfully completed.