

Project Development - Delivery Of Sprint-4

Date	14-11-2022
Team ID	PNT2022TMID19051
ProjectName	Project-IoT Based Safety Gadget For Child Safety Monitoring & Notification
MaximumMarks	

WEB USER INTERFACE

FIREOUTH.HTML

HTML,CSS AND JS CODE:

```
<!DOCTYPE  
PE 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/n  
progress.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,
```

```
        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;  
    }
```

```

    .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>

```

```

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

    <div class="qrAuthorize">
      <h4 class="subTitle">Scan QR from your Fire OAuth
App</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/n
progress.min.js"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/qrious/4.0.2/qriou
s.min.js"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/socket.io/4.2.0/soc
ket.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
  }
}
```

```

    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 =
`${firePwaUrlHostname}/authorize.html?sessionId=${sessionId}&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

```

```
        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()
```

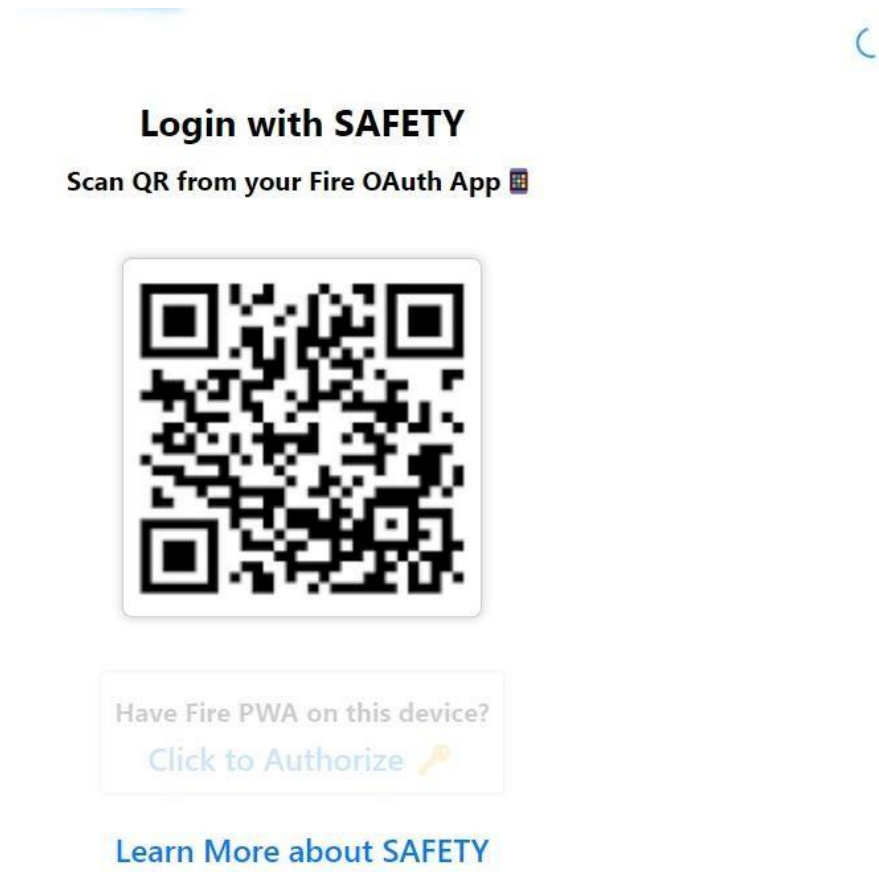
```
socket.on("trusted token", (token) => {
```

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

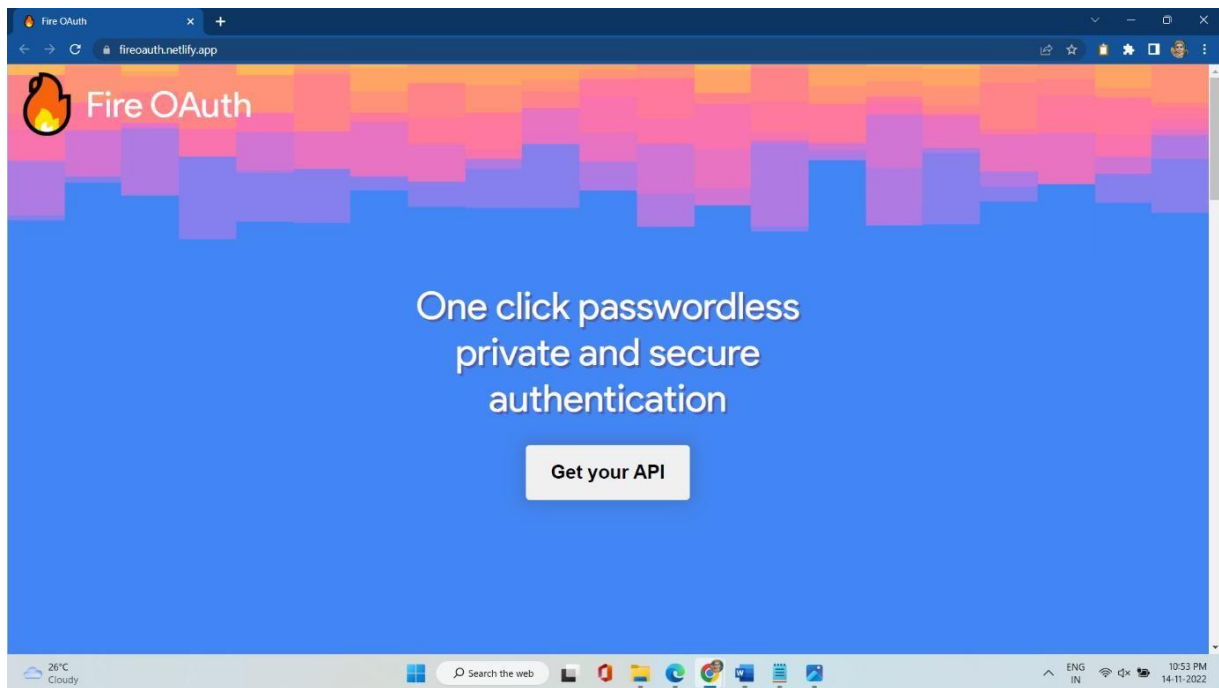
```
    broadCastingChannel.postMessage(data)
```

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

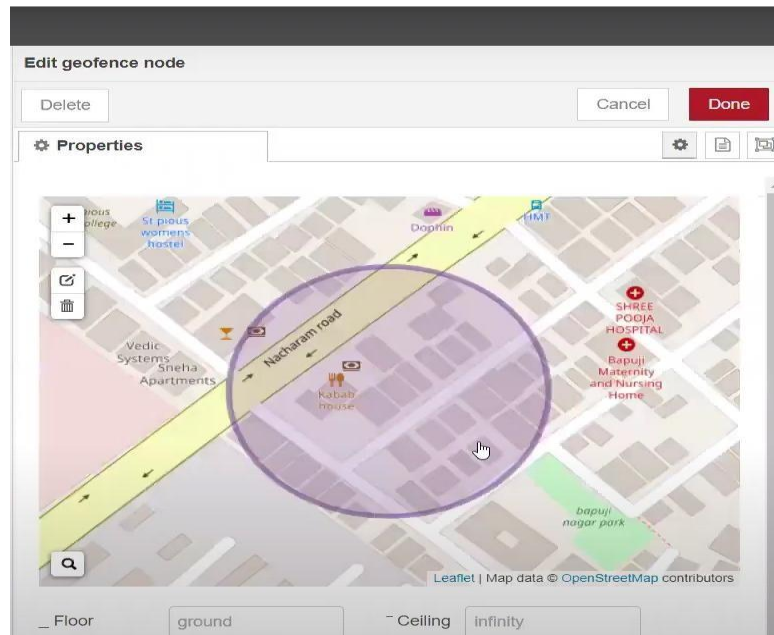
OUTPUT:



OUTPUT: AFTER CLICKING LEARN MORE ABOUT SAFETY

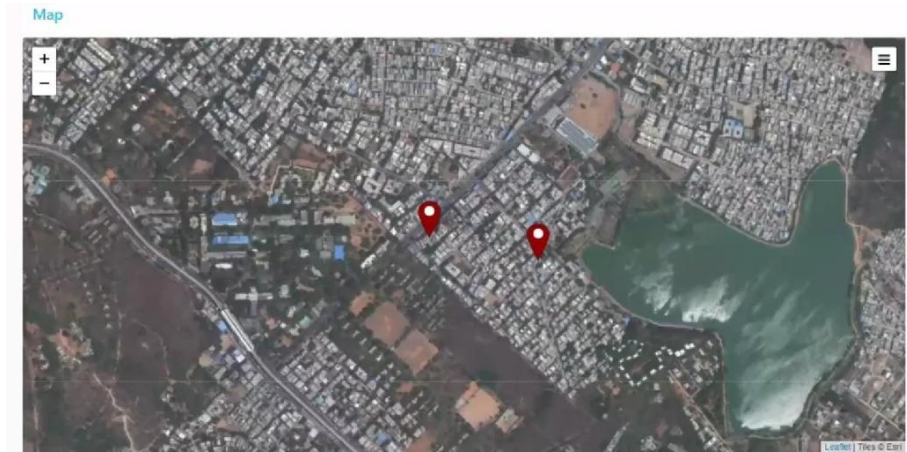


GEOFENCE NODE:



LOCATION:

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



Result: successfully completed.