Date	14-11-2022
Team ID	PNT2022TMID19127
ProjectName	Project-IoT Based Safety Gadget For Child Safety Monitoring & Notification
MaximumMarks	

WEB USER INTERFACE

FIREOUTH.HTML

HTML,CSS AND JS CODE:

```html
<!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/
        n progress.min.css">
              <link rel="shortcut icon"
        href="https://raw.githubusercontent.com/tharunoptimuspd/f
        irepwa/main/favicon.ico?token=GHSAT0AAAAAABR46
        HVJ5M5L3QGFRZRQXOISYUJUWAA"
        type="image/xicon">
              <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;
}
```
```html
</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>
```

```html
<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/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
```

```javascript
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 }
    }
```

```javascript
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
"
        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:

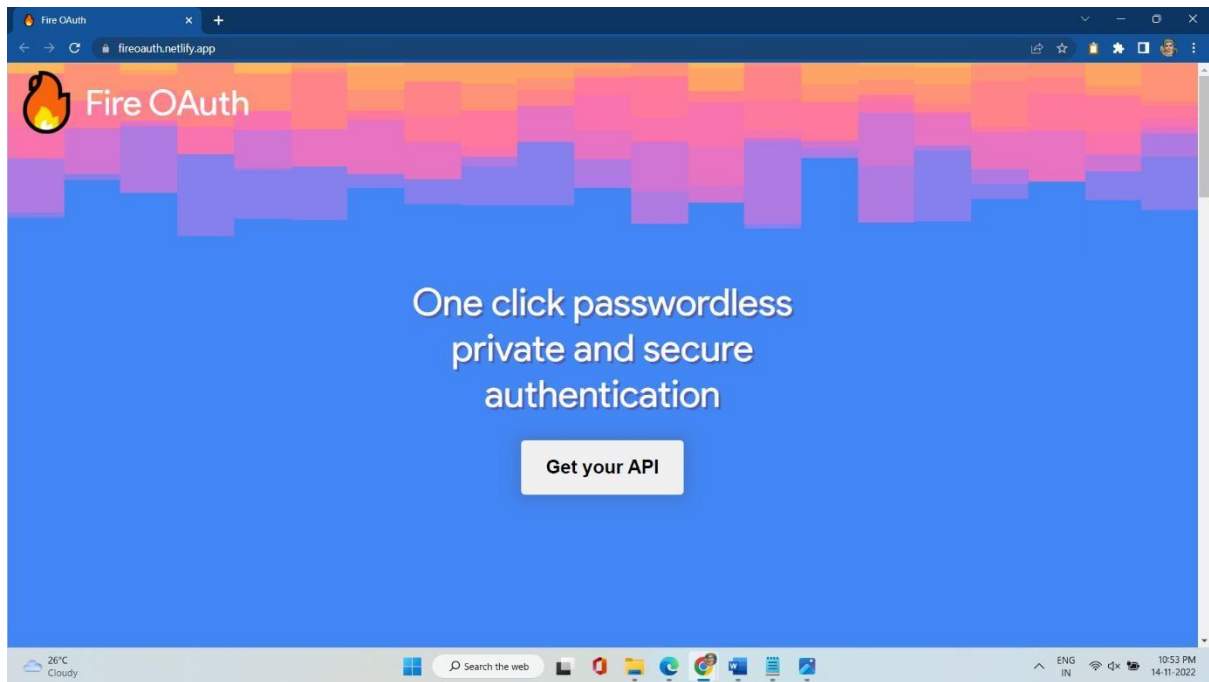# Login with SAFETY

Scan QR from your Fire OAuth App 📱
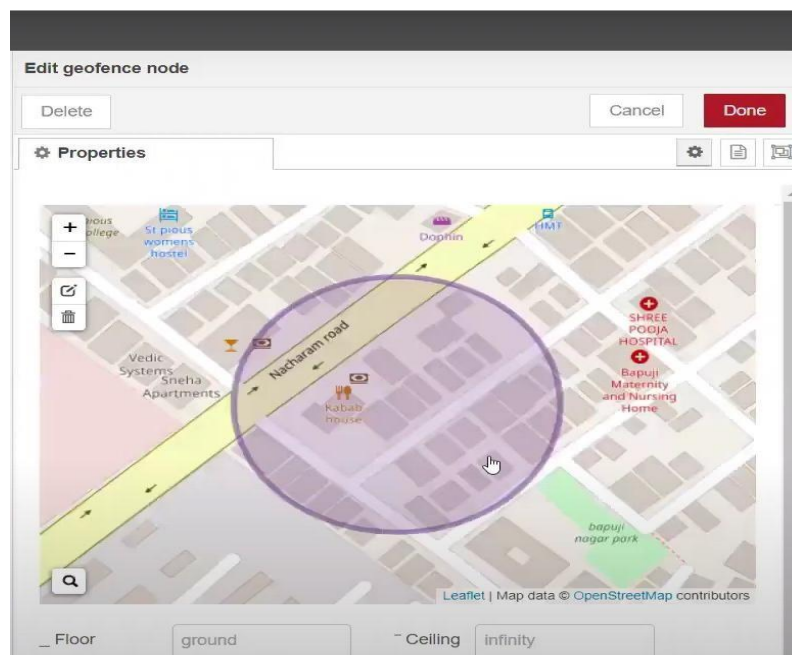

Have Fire PWA on this device?
Click to Authorize 🔑

Learn More about SAFETY
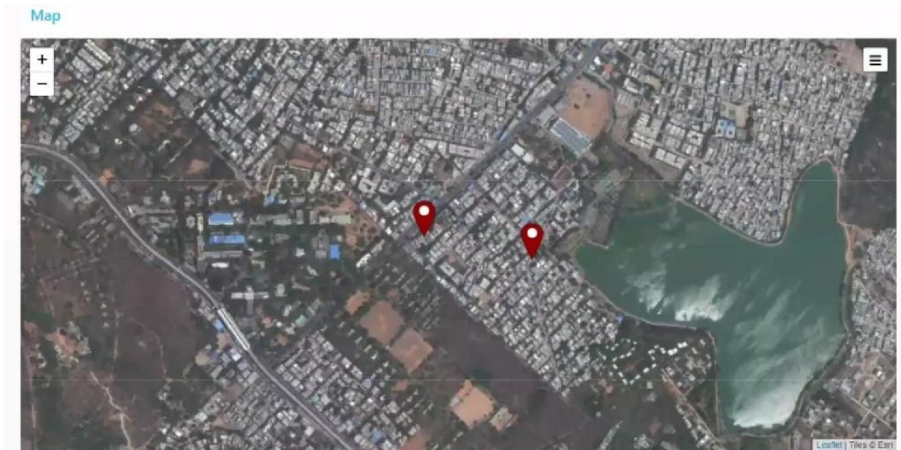
OUTPUT: AFTER CLICKING LEARN MORE ABOUT SAFETY

GEOFENCE NODE:

LOCATION:

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

Result: successfully completed.