Project Development Phase

SPRINT-1

Date	07 November 2022
Team ID	PNT2022TMID01183
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring & Notification
Marks	10 Marks

AUTHENTICATION:

FIREOAUTH:

```
<!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="/css/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=GHSAT0AAAAAABR46HVJ5M5L3QGFRZRQXOISYUJUWAA" type="image/x-icon">
```

```css
<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;
  }
```

```css
.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;
```

```html
        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/nprogress.min.js"></script>
```

```html
<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
    }


    let data = await response.json()
```

```javascript
    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,
```

```javascript
                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>
```