

SOURCE CODE

✓ REGISTRATION:

HTML:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta http-equiv="X-UA-Compatible" content="IE=edge">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <link rel="stylesheet" href="/css/login.css">

  <title>Sign Up</title>

  <script>

    if (window.location.hostname !== "localhost")

      {if (location.protocol !== "https:") {

        location.replace(

          `https:${location.href.substring( location.p

            rotocol.length

          )}`

        )

      }

    }

  </script>

  <script src="./localforage.js"></script>

</head>

<body>

  <div class="wrapper">

    <div class="loginContainer">

      <span>Login to Continue</span>

      <div class="traditionalLoginContainer">

        <form class="signupForm" action="/" method="post">

          <input type="text" name="firstName" placeholder="First Name" id="firstName">

          <input type="text" name="lastName" placeholder="Last Name" id="lastName">

          <input type="text" name="username" placeholder="User Name" id="username">
```

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        <input type="email" name="email" placeholder="Email" id="email">

        <input type="password" name="password" placeholder="Password" id="password">

        <input class="loginButton" type="submit" value="Sign Up">

    </form>

</div>

<div class="loginWithFireContainer">

    <button type="button" class="fire" title="Login with SAFETY" id="fire">Login with
SAFETY</button>

</div>

<a class="hyperLink" href="/login">Already have an Account? Login ↗ </a>

</div>

</div>

<script>

    // Necessary for Fire OAuth to Function

    const fireBroadcastingChannel = new BroadcastChannel('fireOAuthChannel');

    fireBroadcastingChannel.addEventListener('message', async event => {

        let data = event.data

        /**
         * @typedef {Object<string, any>} Data
         * @property {boolean} success - Whether the login was successful
         * @property {string} token - The data returned from the login i.e. Fire Token
         */

        // data.token is the message sent from the fireOAuthChannel after verification
        // data.success is a boolean that indicates whether the verification was successful
        // data.token is the fire token
        // What to do with the Fire Token?

        // * Fire Token is an unique token which uniquely identifies the user who authorized your login attempt
        with Fire

        // * You can use this token ONLY ONCE as it will be destroyed after the first use

        // 1. Send the fire token to the Fire Server to verify the user

        // - You can do that client sided or server sided

        // - You need to send a POST Request to the Fire Server with the fire token

        // at the URL: http://localhost:3003/api/tokens/verify

        // - The Fire Server will verify the fire token and return a response

        // - If the verification was successful - CODE (200), the Fire Server will return a response with the
        user's data

        // - If the verification was unsuccessful - CODE (400) or CODE (401), the Fire Server will return a
        response with an error 'message'

        // - You can use the data returned from the Fire Server to create a new user in your database

        // This example will send the token to Fire Servers and console.log the response

        console.log("%c" + `Fire Token: ${data.token}`, `color: #f1c40f; font-weight: bold;`);
    });

```

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const response = await fetch('https://fire.adaptable.app/api/tokens/verify',
  {method: 'POST',
    headers: {
      'Content-Type': 'application/json'
    },
    body:
      JSON.stringify({tok
        en: data.token
      })
  })
// get the response
const responseData = await response.json()
// console.log the response
console.log(responseData)
await localforage.setItem('userData', {...responseData, isFire: true})
// Adding the user data to the user Database
let database = await localforage.getItem("userDatabase")
if (database == null) {
  database = []
}
database.push(responseData)
await localforage.setItem("userDatabase", database)
// redirect to the home page
window.location.href = '/'
})

function popupwindow(url, title, w, h)
{
  var left = (screen.width/2)-(w/2);
  var top = (screen.height/2)-(h/2);

  return window.open(url, title, 'toolbar=no, location=no, directories=no, status=no, menubar=no,
scrollbars=no, resizable=no, copyhistory=no, width='+w+', height='+h+', top='+top+', left='+left);
}

document.getElementById("fire").addEventListener("click", function()
{
  popupwindow("/fireoauth.html", "Fire OAuth", 450, 600)
})
</script>
<script>
// this.Website's Scripts / App Logic
document.querySelector("#signupForm").addEventListener("submit" , async (e) => {
  e.preventDefault()

  let firstName = document.getElementById("firstName").value
  let lastName = document.getElementById("lastName").value
  let username = document.getElementById("username").value

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    let email = document.getElementById("email").value

    let password = document.getElementById("password").value

    let profilePic = `https://avatars.dicebear.com/api/adventurer-
neutral/${firstName}${lastName}.svg?backgroundColor=variant03`

    let data = { firstName, lastName, username, email, password, profilePic }

    await localforage.setItem("userData", data)

    let database = await localforage.getItem("userDatabase")

    if (database == null) {

        database = []

    }

    database.push(data)

    await localforage.setItem("userDatabase", database)

    window.location.href = "/"

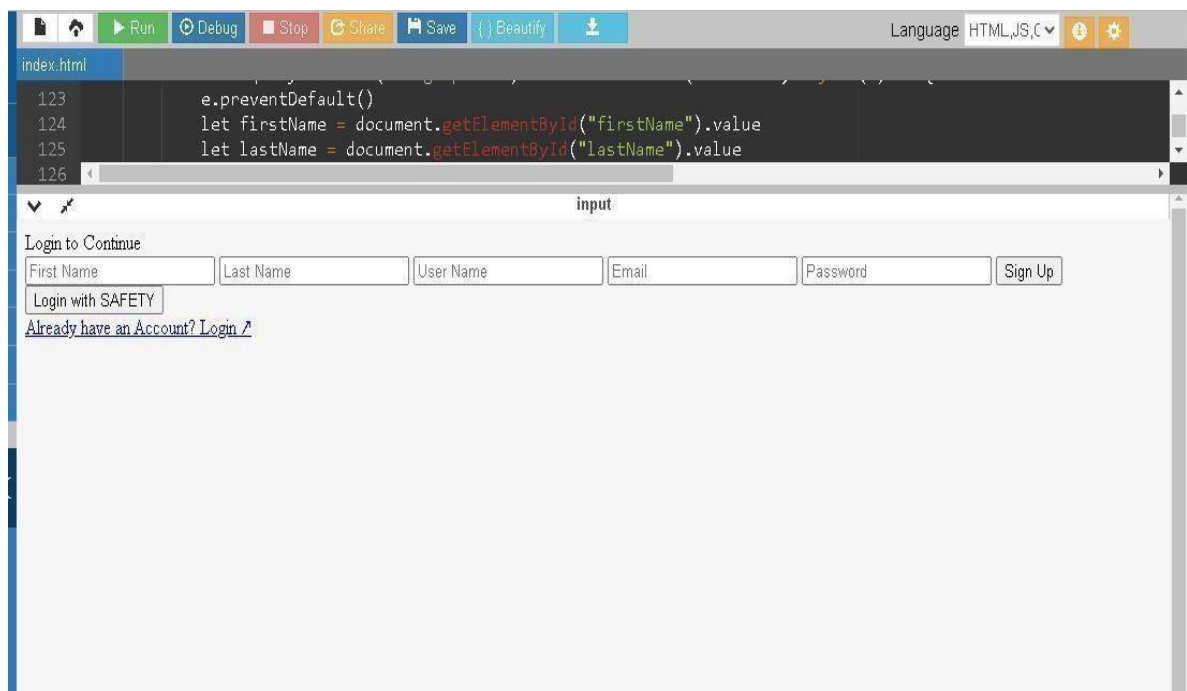
})

</script>

</body>

</html>

```



✓ **CONFIRMATION EMAIL:**

INDEX:

<!DOCTYPE html>

<html lang="en" style="height: 100%; margin: 0;">

<head>

<meta charset="UTF-8" />

<meta name="description" content="The Home Page after Logged In" />

```

        <meta name="viewport" content="width=device-width, initial-scale=1.0" />

        <title>IOT Based Safety Gadget for Child Safety Monitoring and Notification</title>

<script src="/localforage.js"></script>

        <script>

            if (window.location.hostname !== "localhost")

                {if (location.protocol !== "https:") {

                    location.replace(

                        `https:${location.href.substring(

                            location.protocol.length

                        )}`

                    )

                }

            }

            async function check()

            {let data = localforage.getItem("userData")

            if (data == null) {

                window.location.href = "/login"

            }

            }

            check()

        </script>

    </head>

    <body

        style="

            height: 100%;

            margin: 0;

            font-weight: 300;

            font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto,

                Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue',

                sans-serif;

            "

    >

        <div

            class="wrapper"

            style="

                height: 90%;

                display: flex;

                flex-direction: column;

```

```

        align-items: center;
        justify-content: center;
text-align: center;
"
>
<div
    class="details"
    style="
        display: flex;
        flex-direction: column;
        align-items: center;
        gap: 20px;
        padding: 1rem;
        border-radius: 5px;
        box-shadow: 0 0 8px 0px #44444444;
max-width: 80%;
"
>
    <h1 class="name" style="margin: 0"></h1>
    <div
        class="imageContainer"
        style="padding: 10px; height: 10rem; width: 10rem"
    >
        <img class="image" alt="profile picture" />
    </div>
    <h2 class="email" style="margin: 0"></h2>

    <a style="text-decoration: none;text-align: center;font-size: 1.2rem;color: #0070f3;font-weight:
400;" href="/dashboard">Go to Dashboard ↗ </a>

</div>
</div>
<script>
    async function main() {
        let name = document.querySelector(".name")
        let image = document.querySelector(".image")
        let email = document.querySelector(".email")
        let userData = await localStorage.getItem("userData")
        if(userData == null) {
            window.location.href = "/login"

```

```

    }

    name.innerHTML = `Welcome ${userData.firstName} ${userData.lastName}!`

    image.src = userData.profilePic

    email.innerHTML = `Your email is: <a style="text-decoration: none;color: #0072B5;"
href="mailto:${userData.email}">${userData.email}</a>`

    }

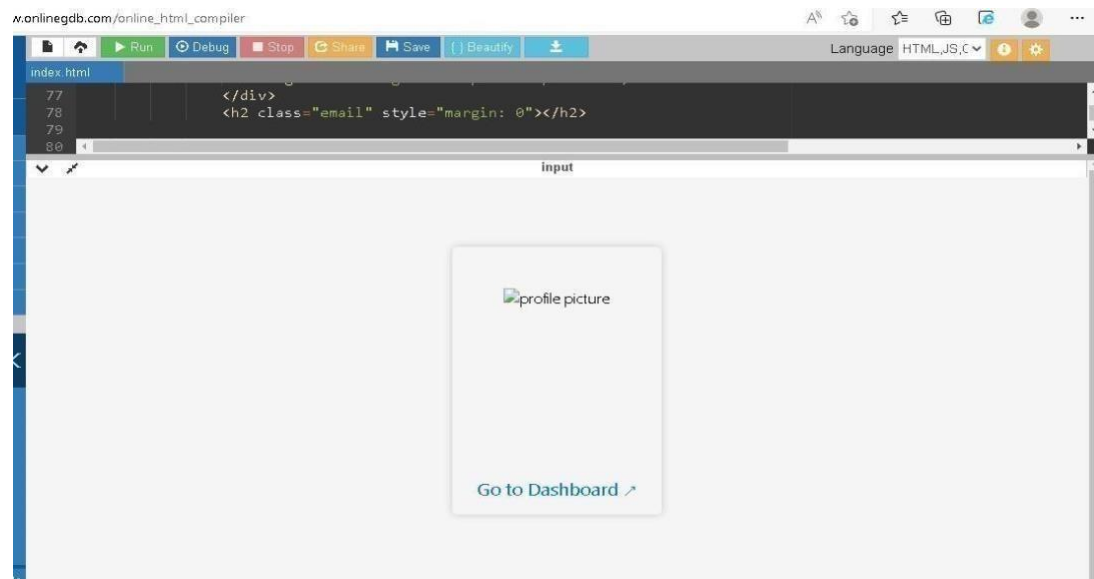
    main()

</script>

</body>

</html>

```



LOCALFORAGE:

/*!

localForage -- Offline Storage, Improved

Version 1.10.0

<https://localforage.github.io/localForage>

(c) 2013-2017 Mozilla, Apache License 2.0

*/

!function(a)

{if("object"==typeof exports&&"undefined"!=typeof module)module.exports=a();

else if("function"==typeof define&&define.amd)define([],a);

else{var b;

b="undefined"!=typeof window?window:"undefined"!=typeof global?global:"undefined"!=typeof self?self:this,b.localforage=a()})();function(){

return function a(b,c,d){

function e(g,h){if(!c[g]){if(!b[g]){

var i="function"==typeof require&&require;

if(!h&&i)return i(g,!0);if(f)return f(g,!0);

```

var j=new Error("Cannot find module '"+g+"'");

throw j.code="MODULE_NOT_FOUND",j);var k=c[g]={exports:{}};

b[g][0].call(k.exports,function(a){

var c=b[g][1][a];return e(c||a),k,k.exports,a,b,c,d)}

return c[g].exports}

for(var f="function"===typeof require&&require,g=0;g<d.length;g++)e(d[g]);

return e)({1:[function(a,b,c){(function(a){"use strict";

function c(){k=!0;for(var a,b,c=l.length;c;){

for(b=l,l=[],a=-1;++a<c;)b[a]();c=l.length}k=!1}

function d(a){1!==l.push(a)||k||e()}var

e,f=a.MutationObserver||a.WebKitMutationObserver;

if(f){var g=0,h=new

f(c),i=a.document.createTextNode("");h.observe(i,{characterData:!0}),e=function(){i.data=g++g%2}}

else if(a.setImmediate||void 0===a.MessageChannel)e="document"in

a&&"onreadystatechange"in a.document.createElement("script")?function(){var

b=a.document.createElement("script");b.onreadystatechange=function(){c(),b.onreadystatechange=null,b.pa

rentNode.removeChild(b),b=null},a=document.documentElement.appendChild(b)}:function(){setTimeout(c,0)};

else{var j=new a.MessageChannel;j.port1.onmessage=c,e=function(){j.port2.postMessage(0)}}var

k,l=[];b.exports=d}).call(this,"undefined"!==typeof global?global:"undefined"!==typeof

self?self:"undefined"!==typeof window?window:{}),{2:[function(a,b,c){"use strict";function d(){function

e(a){if("function"!==typeof a)throw new TypeError("resolver must be a

function");this.state=s,this.queue=[],this.outcome=void 0,a!==d&&i(this,a)}function

f(a,b,c){this.promise=a,"function"===typeof

b&&(this.onFulfilled=b,this.callFulfilled=this.otherCallFulfilled),"function"===typeof

c&&(this.onRejected=c,this.callRejected=this.otherCallRejected)}function g(a,b,c){o(function(){var

d;try{d=b(c)}catch(b){return p.reject(a,b)}d===a?p.reject(a,new TypeError("Cannot resolve promise with

itself")):p.resolve(a,d))}function h(a){var b=a&&a.then;if(a&&"object"===typeof a||"function"===typeof

a)&&"function"===typeof b)return function(){b.apply(a,arguments)}function i(a,b){function

c(b){f||(f=!0,p.reject(a,b))}function d(b){f||(f=!0,p.resolve(a,b))}function e(){b(d,c)}var

f=!1,g=j(e),"error"===g.status&&c(g.value)}function j(a,b){var

c={};try{c.value=a(b),c.status="success"}catch(a){c.status="error",c.value=a}return c}function k(a){return a

instanceof this?a:p.resolve(new this(d,a))}function l(a){var b=new this(d);return p.reject(b,a)}function

m(a){function b(a,b){function

d(a){g[b]=a,++h!==e||f||(f=!0,p.resolve(j,g))}c.resolve(a).then(d,function(a){f||(f=!0,p.reject(j,a))})var

c=this;if("[object Array]"!==Object.prototype.toString.call(a))return this.reject(new TypeError("must be an

array"));var e=a.length,f=!1;if(!e)return this.resolve([]);for(var g=new Array(e),h=0,i=-1,j=new

this(d);++i<e;)b(a[i],i);return j}function n(a){function

b(a){c.resolve(a).then(function(a){f||(f=!0,p.resolve(h,a))},function(a){f||(f=!0,p.reject(h,a))})var

c=this;if("[object Array]"!==Object.prototype.toString.call(a))return this.reject(new TypeError("must be an

array"));var e=a.length,f=!1;if(!e)return this.resolve([]);for(var g=-1,h=new this(d);++g<e;)b(a[g]);return h}var

o=a(1),p={},q=["REJECTED"],r=["FULFILLED"],s=["PENDING"];b.exports=e,e.prototype.catch=function(a){ret

urn this.then(null,a)},e.prototype.then=function(a,b){if("function"!==typeof a&&this.state===r||"function"!==typeof

b&&this.state===q)return this;var c=new

this.constructor(d);if(this.state!==s){g(c,this.state===r?a:b,this.outcome)}else this.queue.push(new

f(c,a,b));return

c},f.prototype.callFulfilled=function(a){p.resolve(this.promise,a)},f.prototype.otherCallFulfilled=function(a){g( this.

promise,this.onFulfilled,a)},f.prototype.callRejected=function(a){p.reject(this.promise,a)},f.prototype.oth

erCallRejected=function(a){g(this.promise,this.onRejected,a)},p.resolve=function(a,b){var

c=j(h,b);if("error"===c.status)return p.reject(a,c.value);var

d=c.value;if(d)i(a,d);else{a.state=r,a.outcome=b;for(var e=

1,f=a.queue.length;++e<f;)a.queue[e].callFulfilled(b)}return

a},p.reject=function(a,b){a.state=q,a.outcome=b;for(var c=

1,d=a.queue.length;++c<d;)a.queue[c].callRejected(b);return

a},e.resolve=k,e.reject=l,e.all=m,e.race=n},{1:1}],3:[function(a,b,c){(function(b){"use strict";"function"!==typeof

b.Promise&&(b.Promise=a(2))}).call(this,"undefined"!==typeof global?global:"undefined"!==typeof

self?self:"undefined"!==typeof window?window:{}),{2:2}],4:[function(a,b,c){"use strict";function d(a,b){if(!a

instanceof b)throw new TypeError("Cannot call a class as a function")}function

e(){try{if("undefined"!==typeof indexedDB)return indexedDB;if("undefined"!==typeof webkitIndexedDB)return

webkitIndexedDB;if("undefined"!==typeof mozIndexedDB)return mozIndexedDB;if("undefined"!==typeof

OIndexedDB)return OIndexedDB;if("undefined"!==typeof msIndexedDB)return

msIndexedDB}catch(a){return}}function f(){try{if(!ua||!ua.open)return!1;var a="undefined"!==typeof

```



```

openDatabase&&/Safari|iPhone|iPod|iPad|).test(navigator.userAgent)&&!/Chrome/.test(navigator.userAgent)
&&!/BlackBerry/.test(navigator.platform),b="function"==typeof fetch&&-1!=fetch.toString().indexOf("[native
code");return(!a||b)&&"undefined"!=typeof indexedDB&&"undefined"!=typeof
IDBKeyRange}catch(a){return!1}}function g(a,b){a=a||[],b=b||[];try{return new
Blob(a,b)}catch(f){if("TypeError"!=f.name)throw f;for(var c="undefined"!=typeof
BlobBuilder?BlobBuilder:"undefined"!=typeof MSBlobBuilder?MSBlobBuilder:"undefined"!=typeof
MozBlobBuilder?MozBlobBuilder:WebKitBlobBuilder,d=new c,e=0;e<a.length;e+=1)d.append(a[e]);return
d.getBlob(b.type)}}function h(a,b){b&&a.then(function(a){b(null,a)},function(a){b(a)});function
i(a,b,c){"function"==typeof b&&a.then(b),"function"==typeof c&&a.catch(c)}function
j(a){return"string"!=typeof a&&(console.warn(a+" used as a key, but it is not a
string."),a=String(a)),a}function k(){if(arguments.length&&"function"==typeof arguments[arguments.length-
1])return arguments[arguments.length-1]}function l(a){for(var b=a.length,c=new ArrayBuffer(b),d=new
Uint8Array(c),e=0;e<b;e++)d[e]=a.charCodeAtAt(e);return c}function m(a){return new va(function(b){var
c=a.transaction(wa,Ba),d=g([""]);c.objectStore(wa).put(d,"key"),c.onabort=function(a){a.preventDefault(),a.st
opPropagation(),b(!1)},c.oncomplete=function(){var
a=navigator.userAgent.match(/ChromeV(\d+)/),c=navigator.userAgent.match(/EdgeV/);b(c?!a||parseInt(a[1],10)
>=43)}).catch(function(){return!1}})function n(a){return"boolean"==typeof
xa?va.resolve(xa):m(a).then(function(a){return xa=a})}function o(a){var b=ya[a.name],c={};c.promise=new
va(function(a,b){c.resolve=a,c.reject=b}),b.deferredOperations.push(c),b.dbReady?b.dbReady=b.dbReady.th
en(function(){c.resolve=c.promise}):b.dbReady=c.promise}function p(a){var
b=ya[a.name],c=b.deferredOperations.pop();if(c)return c.resolve(),c.promise}function q(a,b){var
c=ya[a.name],d=c.deferredOperations.pop();if(d)return d.reject(b),d.promise}function r(a,b){return new
va(function(c,d){if(ya[a.name]=ya[a.name]||B(),a.db){if(!b)return c(a.db);o(a),a.db.close();var
e=[a.name];b&&e.push(a.version);var f=ua.open.apply(ua,e);b&&(f.onupgradeneeded=function(b){var
c=f.result;try{c.createObjectStore(a.storeName),b.oldVersion<=1&&c.createObjectStore(wa)}catch(c){if("Con
straintError"!=c.name)throw c;console.warn("The database "+a.name+" has been upgraded from version
'+b.oldVersion+' to version '+b.newVersion+', but the storage '"+a.storeName+"' already
exists.'))},f.onerror=function(a){a.preventDefault(),d(f.error)},f.onsuccess=function(){var
b=f.result;b.onversionchange=function(a){a.target.close(),c(b),p(a)}}}function s(a){return r(a,!1)}function
t(a){return r(a,!0)}function u(a,b){if(!a.db)return!0;var
c=!a.db.objectStoreNames.contains(a.storeName),d=a.version<a.db.version,e=a.version>a.db.version;if(d&&
(a.version!=b&&console.warn("The database "+a.name+" can't be downgraded from version
"+a.db.version+" to version "+a.version+").",a.version=a.db.version),e){c}{if(c){var
f=a.db.version+1;f>a.version&&(a.version=f)}return!0}return!1}function v(a){return new va(function(b,c){var
d=new FileReader;d.onerror=c,d.onloadend=function(c){var
d=btoa(c.target.result)};b({ local_forage_encoded_blob:!0,data:d,type:a.type}),d.readAsBinaryString(a))}
function w(a){return g([atob(a.data)]),{type:a.type}}function x(a){return
a&&a._local_forage_encoded_blob}function y(a){var b=this,c=b._initReady().then(function(){var
a=ya[b._dbName.name];if(a&&a.dbReady)return a.dbReady});return i(c,a,a),c}function z(a){o(a);for(var
b=ya[a.name],c=b.forages,d=0;d<c.length;d++){var
e=c[d];e._dbName.db&&(e._dbName.db.close(),e._dbName.db=null)}return a.db=null,s(a).then(function(b){return
a.db=b,u(a)?t(a):b}).then(function(d){a.db=b.db=d;for(var
e=0;e<c.length;e++)c[e]._dbName.db=d}).catch(function(b){throw q(a,b,b)})}function A(a,b,c,d){void
0===d&&(d=1);try{var
e=a.db.transaction(a.storeName,b);c(null,e)}catch(e){if(d>0&&(!a.db||"InvalidStateError"===e.name||"NotFou
ndError"===e.name))return
va.resolve().then(function(){if(!a.db||"NotFoundError"===e.name&&!a.db.objectStoreNames.contains(a.store
Name)&&a.version<=a.db.version))return a.db&&(a.version=a.db.version+1),t(a)).then(function(){return
z(a).then(function(){A(a,b,c,d-1)}).catch(c);c(e)}function
B(){return{forages:[],db:null,dbReady:null,deferredOperations:[]}}function C(a){function b(){return
va.resolve()}var c=this,d={db:null};if(a)for(var e in a)d[e]=a[e];var
f=ya[d.name];f(f=B(),ya[d.name]=f),f.forages.push(c),c._initReady||(c._initReady=c.ready,c.ready=y);for(var
g=[],h=0;h<f.forages.length;h++){var i=f.forages[h];i!=c&&g.push(i._initReady().catch(b))}var
j=f.forages.slice(0);return va.all(g).then(function(){return d.db=f.db,s(d)}).then(function(a){return
d.db=a,u(d,c._defaultConfig.version)?t(d):a}).then(function(a){d.db=f.db=a,c._dbName=d;for(var
b=0;b<j.length;b++){var e=j[b];e!=c&&(e._dbName.db=d.db,e._dbName.version=d.version)}}}function D(a,b){var
c=this;a=j(a);var d=new va(function(b,d){c.ready().then(function(){A(c._dbName,Aa,function(e,f){if(e)return
d(e);try{var g=f.objectStore(c._dbName.storeName),h=g.get(a);h.onsuccess=function(){var a=h.result;void
0===a&&(a=null),x(a)&&(a=w(a)),b(a)},h.onerror=function(){d(h.error)}}catch(a){d(a)}}).catch(d)});return
h(d,b),d}function E(a,b){var c=this,d=new
va(function(b,d){c.ready().then(function(){A(c._dbName,Aa,function(e,f){if(e)return d(e);try{var
g=f.objectStore(c._dbName.storeName),h=g.openCursor(),i=1;h.onsuccess=function(){var c=h.result;if(c){var
d=c.value;x(d)&&(d=w(d));var e=a(d,c.key,i++);void 0!==e?b(e):c.continue();}else
b();h.onerror=function(){d(h.error)}}catch(a){d(a)}}).catch(d)});return h(d,b),d}function F(a,b,c){var
d=this;a=j(a);var e=new va(function(c,e){var f;d.ready().then(function(){return f=d._dbName,"[object
Blob]"===za.call(b)?n(f.db).then(function(a){return
a?b:v(b)}):b}).then(function(b){A(d._dbName,Ba,function(f,g){if(f)return e(f);try{var
h=g.objectStore(d._dbName.storeName);null===b&&(b=void 0);var i=h.put(b,a);g.oncomplete=function(){void
0===b&&(b=null),c(b)},g.onabort=g.onerror=function(){var
a=i.error?i.error:i.transaction.error;e(a)}}catch(a){e(a)}}).catch(e));return h(e,c,e)}function G(a,b){var

```

```

c=this;a=j(a);var d=new va(function(b,d){c.ready().then(function(){A(c._dbName,Ba,function(e,f){if(e)return
d(e);try{var
g=f.objectStore(c._dbName.storeName),h=g.delete(a);f.oncomplete=function(){b();f.onerror=function(){d(h.err
or);f.onabort=function(){var a=h.error?h.error:h.transaction.error;d(a)}}catch(a){d(a)}}}).catch(d));return
h(d,b,d)}function H(a){var b=this,c=new
va(function(a,c){b.ready().then(function(){A(b._dbName,Ba,function(d,e){if(d)return c(d);try{var
f=e.objectStore(b._dbName.storeName),g=f.clear();e.oncomplete=function(){a();e.onabort=e.onerror=function()
{var a=g.error?g.error:g.transaction.error;c(a)}}catch(a){c(a)}}}).catch(c));return h(c,a,c)}function I(a){var
b=this,c=new va(function(a,c){b.ready().then(function(){A(b._dbName,Aa,function(d,e){if(d)return c(d);try{var
f=e.objectStore(b._dbName.storeName),g=f.count();g.onsuccess=function(){a(g.result);g.onerror=function(){c( g.er
ror)}}catch(a){c(a)}}}).catch(c));return h(c,a,c)}function J(a,b){var c=this,d=new
va(function(b,d){if(a<0)return void b(null);c.ready().then(function(){A(c._dbName,Aa,function(e,f){if(e)return
d(e);try{var g=f.objectStore(c._dbName.storeName),h=!1,i=g.openKeyCursor();i.onsuccess=function(){var
c=i.result;if(!c)return void
b(null);0===a?b(c.key):h?b(c.key):(h=!0,c.advance(a));i.onerror=function(){d(i.error)}}catch(a){d(a)}}}).catch(
d));return h(d,b,d)}function K(a){var b=this,c=new
va(function(a,c){b.ready().then(function(){A(b._dbName,Aa,function(d,e){if(d)return c(d);try{var
f=e.objectStore(b._dbName.storeName),g=f.openKeyCursor(),h=[];g.onsuccess=function(){var
b=g.result;if(!b)return void
a(h);h.push(b.key),b.continue();g.onerror=function(){c(g.error)}}catch(a){c(a)}}}).catch(c));return
h(c,a,c)}function L(a,b){b=k.apply(this,arguments);var c=this.config();a="function"!==typeof
a&&a||[],a.name||(a.name=a.name||c.name,a.storeName=a.storeName||c.storeName);var
d,e=this;if(a.name){var
f=a.name===c.name&&e._dbName.db,g=f?va.resolve(e._dbName.db):s(a).then(function(b){var
c=ya[a.name],d=c.forages;c.db=b;for(var e=0;e<d.length;e++)d[e]._dbName.db=b;return
b});d=a.storeName?g.then(function(b){if(b.objectStoreNames.contains(a.storeName)){var
c=b.version+1;o(a);var d=ya[a.name],e=d.forages;b.close();for(var f=0;f<c.length;f++){var
g=e[f];g._dbName.db=null,g._dbName.version=c}return new va(function(b,d){var
e=ua.open(a.name,c);e.onerror=function(a){e.result.close(),d(a),e.onupgradeneeded=function(){e.result.delet
eObjectStore(a.storeName);e.onsuccess=function(){var
a=e.result;a.close(),b(a)}}).then(function(a){d.db=a;for(var b=0;b<c.length;b++){var
c=e[b];c._dbName.db=a,p(c._dbName)}}).catch(function(b){throw(q(a,b)||va.resolve()).catch(function(){},b)}});g.t
hen(function(b){o(a);var c=ya[a.name],d=c.forages;b.close();for(var
e=0;e<d.length;e++){d[e]._dbName.db=null}return new va(function(b,c){var
d=ua.deleteDatabase(a.name);d.onerror=function(){var
a=d.result;a&&a.close(),c(d.error);d.onblocked=function(){console.warn('droplnstance blocked for database
'+a.name+' until all open connections are closed');d.onsuccess=function(){var
a=d.result;a&&a.close(),b(a)}}).then(function(a){c.db=a;for(var
b=0;b<d.length;b++)p(d[b]._dbName)}}).catch(function(b){throw(q(a,b)||va.resolve()).catch(function(){},b)}});els
e d=va.reject("Invalid arguments");return h(d,b,d)}function M(){return"function"===typeof
openDatabase}function N(a){var b,c,d,e,f,g=.75*a.length,h=a.length,i=0;"==="a[a.length-1]&&(g--
,"==="a[a.length-2]&&(g--);var j=new ArrayBuffer(g),k=new
Uint8Array(j);for(b=0;b<h;b+=4)c=Da.indexOf(a[b]),d=Da.indexOf(a[b+1]),e=Da.indexOf(a[b+2]),f=Da.indexOf(a[b+3]),k[i++]<2?d>4,k
[i++]=(15&d)<<4|e>>2,k[i++]=(3&e)<<6|f>>2;return j}function O(a){var b,c=new
Uint8Array(a),d="";for(b=0;b<c.length;b+=3)d+=Da[c[b]>>2],d+=Da[(3&c[b])<<4|c[b+1]>>4],d+=Da[(15&c[b+1])
<<2|c[b+2]>>6],d+=Da[63&c[b+2]];return c.length%3==2?d=d.substring(0,d.length-
1)+"":c.length%3==1&&(d=d.substring(0,d.length-2)+"=="),d}function P(a,b){var
c="";if(a&&(c=ua.call(a)),a&&("[object ArrayBuffer]"===c||a.buffer&&"[object
ArrayBuffer]"===ua.call(a.buffer)))var d,e=Ga;a instanceof ArrayBuffer?(d=a.buffer,"[object
Int8Array]"===c?e+=Ka:"[object Uint8Array]"===c?e+=La:"[object Uint8ClampedArray]"===c?e+=Ma:"[object
Int16Array]"===c?e+=Na:"[object Uint16Array]"===c?e+=Pa:"[object Int32Array]"===c?e+=Oa:"[object
Uint32Array]"===c?e+=Qa:"[object Float32Array]"===c?e+=Ra:"[object Float64Array]"===c?e+=Sa:b(new
Error("Failed to get type for BinaryArray"))),b(e+O(d))else if("[object Blob]"===c){var f=new
FileReader;f.onload=function(){var c=Ea+a.type+"-"+O(this.result);b(Ga+Ja+c),f.readAsArrayBuffer(a)}else
try{b(JSON.stringify(a))}catch(c){console.error("Couldn't convert value into a JSON string:
",a),b(null,c)}}function Q(a){if(a.substring(0,Ha)===Ga)return JSON.parse(a);var
b,c=a.substring(Ta),d=a.substring(Ha,Ta);if(d===Ja&&Fa.test(c)){var
e=c.match(Fa);b=e[1],c=c.substring(e[0].length);var f=N(c);switch(d){case la:return f;case Ja:return
g([f],{type:b});case Ka:return new Int8Array(f);case La:return new Uint8Array(f);case Ma:return new
Uint8ClampedArray(f);case Na:return new Int16Array(f);case Pa:return new Uint16Array(f);case Oa:return
new Int32Array(f);case Qa:return new Uint32Array(f);case Ra:return new Float32Array(f);case Sa:return new
Float64Array(f);default:throw new Error(" Unkown type: "+d)}}function R(a,b,c,d){a.executeSql("CREATE
TABLE IF NOT EXISTS "+b.storeName+" (id INTEGER PRIMARY KEY, key unique, value)",[],c,d)}function
S(a){var b=this,c={db:null};if(a)for(var d in a)c[d]="string"!==typeof a[d]?a[d].toString():a[d];var e=new
va(function(a,d){try{c.db=openDatabase(c.name,String(c.version),c.description,c.size)}catch(a){return
d(a)}c.db.transaction(function(e){R(e,c,function(){b._dbName=c,a(),function(a,b){d(b)}});return
c.serializer=Va,e}function
T(a,b,c,d,e,f){a.executeSql(c,d,e,function(a,g){g.code===g.SYNT_AX_ERR?a.executeSql("SELECT name FROM
sqlite_master WHERE type='table' AND name
=?",[b.storeName],function(a,h){h.rows.length?f(a,g):R(a,b,function(){a.executeSql(c,d,e,f),f):f(a,g),f)}fun

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ction U(a,b){var c=this;a=j(a);var d=new va(function(b,d){c.ready().then(function(){var
e=c._dbNameInfo;e.db.transaction(function(c){T(c,e,"SELECT * FROM "+e.storeName+" WHERE key = ? LIMIT
1",[a],function(a,c){var
d=c.rows.length?c.rows.item(0).value:null;d&&(d=e.serializer.deserialize(d)),b(d)),function(a,b){d(b)}})).catc
h(d));return h(d,b),d}function V(a,b){var c=this,d=new va(function(b,d){c.ready().then(function(){var
e=c._dbNameInfo;e.db.transaction(function(c){T(c,e,"SELECT * FROM "+e.storeName,[],function(c,d){for(var
f=d.rows,g=f.length,h=0;h<g;h++){var i=f.item(h),j=i.value;if(j&&(j=e.serializer.deserialize(j)),void
0!==(j=a(j,i.key,h+1)))return void b(j)}b(),function(a,b){d(b)}})).catch(d));return h(d,b),d}function
W(a,b,c,d){var e=this;a=j(a);var f=new va(function(f,g){e.ready().then(function(){void 0===b&&(b=null);var
h=b,i=e._dbNameInfo;i.serializer.serialize(b,function(b,j){j?g(j):i.db.transaction(function(c){T(c,i,"INSERT OR
REPLACE INTO "+i.storeName+" (key, value) VALUES
(?, ?)",[a,b],function(){f(h),function(a,b){g(b)}),function(b){if(b.code===b.QUOTA_ERR){if(d>0)return void
f(W.apply(e,[a,h,c,d-1]));g(b)}})).catch(g));return h(f,c),f}function X(a,b,c){return
W.apply(this,[a,b,c,1])}function Y(a,b){var c=this;a=j(a);var d=new
va(function(b,d){c.ready().then(function(){var e=c._dbNameInfo;e.db.transaction(function(c){T(c,e,"DELETE FROM
"+e.storeName+" WHERE key = ?",[a],function(){b(),function(a,b){d(b)}})).catch(d));return h(d,b),d}function
Z(a){var b=this,c=new va(function(a,c){b.ready().then(function(){var
d=b._dbNameInfo;d.db.transaction(function(b){T(b,d,"DELETE FROM
"+d.storeName,[],function(){a(),function(a,b){c(b)}})).catch(c));return h(c,a),c}function $(a){var
b=this,c=new va(function(a,c){b.ready().then(function(){var
d=b._dbNameInfo;d.db.transaction(function(b){T(b,d,"SELECT COUNT(key) as c FROM
"+d.storeName,[],function(b,c){var d=c.rows.item(0).c;a(d),function(a,b){c(b)}})).catch(c));return
h(c,a),c}function _(a,b){var c=this,d=new va(function(b,d){c.ready().then(function(){var
e=c._dbNameInfo;e.db.transaction(function(c){T(c,e,"SELECT key FROM "+e.storeName+" WHERE id = ? LIMIT
1",[a+1],function(a,c){var
d=c.rows.length?c.rows.item(0).key:null;b(d),function(a,b){d(b)}})).catch(d));return h(d,b),d}function
aa(a){var b=this,c=new va(function(a,c){b.ready().then(function(){var
d=b._dbNameInfo;d.db.transaction(function(b){T(b,d,"SELECT key FROM "+d.storeName,[],function(b,c){for(var
d=[],e=0;e<c.rows.length;e++)d.push(c.rows.item(e).key);a(d),function(a,b){c(b)}})).catch(c));return
h(c,a),c}function ba(a){return new va(function(b,c){a.transaction(function(d){d.executeSql("SELECT name
FROM sqlite_master WHERE type='table' AND name <
'WebKitDatabaseInfoTable.'",[],function(c,d){for(var
e=[],f=0;f<d.rows.length;f++)e.push(d.rows.item(f).name);b({db:a.storeNames:e}),function(a,b){c(b)}),functio
n(a){c(a)}}))}function ca(a,b){b=k.apply(this,arguments);var c=this.config();a="function"!=typeof
a&&a||{},a.name||[a.name=a.name|c.name,a.storeName=a.storeName|c.storeName];var d,e=this;return
d=a.name?new va(function(b){var
d;d=a.name===c.name?e._dbNameInfo:openDatabase(a.name,"",0),b(a.storeName?{db:d,storeNames:[a.stor
eName]}:ba(d))).then(function(a){return new va(function(b,c){a.db.transaction(function(d){function
e(a){return new va(function(b,c){d.executeSql("DROP TABLE IF EXISTS
"+a,[],function(){b(),function(a,b){c(b)}}))}for(var
f=[],g=0,h=a.storeNames.length;g<h;g++)f.push(e(a.storeNames[g]));va.all(f).then(function(){b()}).catch(fu
ncti
on(a){c(a)}),function(a){c(a)})))).va.reject("Invalid arguments"),h(d,b),d}function
da(){try{return"undefined"!=typeof localStorage&&"setItem"in
localStorage&&!!localStorage.setItem}catch(a){return!1}}function ea(a,b){var c=a.name+"/";return
a.storeName!==b.storeName&&(c+=a.storeName+"/"),c}function fa(){var
a="_localStorage_support_test";try{return
localStorage.setItem(a,0),localStorage.removeItem(a,1)}catch(a){return!0}}function
ga(){return!fa())||localStorage.length>0}function ha(a){var b=this,c={};if(a)for(var d in a)c[d]=a[d];return
c.keyPrefix=ea(a,b._defaultConfig),ga())?(b._dbNameInfo=c,c.serializer=Va,va.resolve():va.reject())}function
ia(a){var b=this,c=b.ready().then(function(){for(var a=b._dbNameInfo.keyPrefix,c=localStorage.length-1;c>=0;c--
){var d=localStorage.key(c);0===d.indexOf(a)&&localStorage.removeItem(d)});return h(c,a),c}function
ja(a,b){var c=this;a=j(a);var d=c.ready().then(function(){var
b=c._dbNameInfo,d=localStorage.getItem(b.keyPrefix+a);return d&&(d=b.serializer.deserialize(d)),d});return
h(d,b),d}function ka(a,b){var c=this,d=c.ready().then(function(){for(var
b=c._dbNameInfo,d=b.keyPrefix,e=d.length,f=localStorage.length,g=1,h=0;h<f;h++){var
i=localStorage.key(h);if(0===i.indexOf(d)){var j=localStorage.getItem(i);if(j&&(j=b.serializer.deserialize(j)),void
0!==(j=a(j,i.substring(e),g++)))return j}};return h(d,b),d}function la(a,b){var
c=this,d=c.ready().then(function(){var b,d=c._dbNameInfo;try{b=localStorage.key(a)}catch(a){b=null}return
b&&(b=b.substring(d.keyPrefix.length)),b});return h(d,b),d}function ma(a){var
b=this,c=b.ready().then(function(){for(var a=b._dbNameInfo,c=localStorage.length,d=[],e=0;e<c;e++){var
f=localStorage.key(e);0===f.indexOf(a.keyPrefix)&&d.push(f.substring(a.keyPrefix.length))}return d});return
h(c,a),c}function na(a){var b=this,c=b.keys().then(function(a){return a.length});return h(c,a),c}function
oa(a,b){var c=this;a=j(a);var d=c.ready().then(function(){var
b=c._dbNameInfo;localStorage.removeItem(b.keyPrefix+a);return h(d,b),d}function pa(a,b,c){var d=this;a=j(a);var
e=d.ready().then(function(){void 0===b&&(b=null);var c=b;return new va(function(e,f){var
g=d._dbNameInfo;g.serializer.serialize(b,function(b,d){if(d)f(d);else
try{localStorage.setItem(g.keyPrefix+a,b),e(c)}catch(a){"QuotaExceededError"!==a.name&&"NS_ERROR_DO
M_QUOTA_REACHED"!==a.name||f(a,f(a))}}));return h(e,c),e}function
qa(a,b){if(b=k.apply(this,arguments),a="function"!=typeof a&&a||{},!a.name){var
c=this.config();a.name=a.name|c.name,a.storeName=a.storeName|c.storeName}var d,e=this;return

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d=a.name?new va(function(b){b(a.storeName?ea(a,e._defaultConfig):a.name+"/").then(function(a){for(var
b=localStorage.length-1;b>=0;b--){var
c=localStorage.key(b);0===c.indexOf(a)&&localStorage.removeItem(c)}}:va.reject("Invalid
arguments"),h(d,b),d,function ra(a,b){a[b]=function(){var c=arguments;return a.ready().then(function(){return
a[b].apply(a,c)}})}function sa(){for(var a=1;a<arguments.length;a++){var b=arguments[a];if(b)for(var c in
b)b.hasOwnProperty(c)&&($a(b[c])?arguments[0][c]=b[c].slice():arguments[0][c]=b[c])}return
arguments[0]}var ta="function"==typeof Symbol&&"symbol"==typeof Symbol.iterator?function(a){return
typeof a}:function(a){return a&&"function"==typeof
Symbol&&a.constructor===Symbol&&a!==Symbol.prototype?"symbol":typeof a},ua=e();"undefined"==typeof
Promise&&a(3);var va=Promise,wa="local-forage-detect-blob-support",xa=void
0,ya={},za=Object.prototype.toString,Aa="readonly",Ba="readwrite",Ca={_driver:"asyncStorage",_initStorage:
C,_support:f(),iterate:E,getItem:D,setItem:F,removeItem:G,clear:H,length:I,key:J,keys:K,dropInstance:L},Da=
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/",Ea="~~local_forage_type
~",Fa="/^~~local_forage_type~([~]+)~/,Ga=" ifsc : ".Ha=Ga.length,la="arbf",Ja="blob",Ka="si08",La="ui08",
Ma="uic8",Na="si16",Oa="si32",Pa="ur16",Qa="ui32",Ra="fi32",Sa="fl64",Ta=Ha+la.length,Ua=Object.prototy
pe.toString,Va={serialize:P,deserialize:Q,stringToBuffer:N,bufferToString:O},Wa={_driver:"webSQLStorage",
_initStorage:S,_support:M(),iterate:V,getItem:U,setItem:X,removeItem:Y,clear:Z,length:$,key:_,keys:aa,dropIn
stance:ca},Xa={_driver:"localStorageWrapper",_initStorage:ha,_support:da(),iterate:ka,getItem:ja,setItem:pa,
removeItem:oa,clear:ia,length:na,key:la,keys:ma,dropInstance:qa},Ya=function(a,b){return
a===b||"number"==typeof a&&"number"==typeof b&&isNaN(a)&&isNaN(b)},Za=function(a,b){for(var
c=a.length,d=0;d<c;){if(Ya(a[d],b))return!0;d++}return!1},$a=Array.isArray||function(a){return"[object
Array]"===Object.prototype.toString.call(a)},_a={},ab={},bb={INDEXEDDB:Ca,WEBSQL:Wa,LOCALSTORAGE:
Xa},cb=[bb.INDEXEDDB._driver,bb.WEBSQL._driver,bb.LOCALSTORAGE._driver],db=["dropInstance"],eb=["
clear","getItem","iterate","key","keys","length","removeItem","setItem"].concat(db),fb={description:""
,driver:cb.slice(),name:"localforage",size:4980736,storeName:"keyvaluepairs",version:1},gb=function(){function
a(b){d(this,a);for(var c in bb)if(bb.hasOwnProperty(c)){var
e=bb[c],f=e._driver;this[c]=f,_a[f]||this.defineDriver(e)}this._defaultConfig=sa({},fb),this._config=sa({},this._de
faultConfig,b),this._driverSet=null,this._initDriver=null,this._ready=!1,this._dbName=null,this._wrapLibraryMet
hodsWithReady(),this.setDriver(this._config.driver).catch(function(){});return
a.prototype.config=function(a){if("object"===void 0===a?"undefined":ta(a))if(this._ready)return new
Error("Can't call config() after localforage has been used.");for(var b in
a){if("storeName"===b&&(a[b]=a[b].replace(/W/g,"_")),"version"===b&&"number"!==typeof a[b])return new
Error("Database version must be a number.");this._config[b]=a[b]}return!("driver"in
a&&a.driver)||this.setDriver(this._config.driver)}return"string"==typeof
a?this._config[a]:this._config},a.prototype.defineDriver=function(a,b,c){var d=new va(function(b,c){try{var
d=a._driver,e=new Error("Custom driver not compliant; see
https://mozilla.github.io/localForage/#definedriver");if(!a._driver)return void c(e);for(var
f=eb.concat("_initStorage"),g=0,i=f.length;g<i;g++){var j=f[g];if(!Za(db,j)||a[j]&&"function"!==typeof a[j])return
void c(e)}(function(){for(var b=function(a){return function(){var b=new Error("Method "+a+" is not
implemented by the current driver"),c=va.reject(b);return h(c,arguments[arguments.length-
1]),c},c=0,d=db.length;c<d;c++){var e=db[c];a[e]||a[e]=b(e)}})();var
k=function(c){_a[d]&&console.info("Redefining LocalForage driver: "+d),_a[d]=a,ab[d]=c,b();},"_support"in
a?a._support&&"function"==typeof
a._support?a._support().then(k,c):k(!a._support):k(!0)}catch(a){c(a)});return
i(d,b,c),d},a.prototype.driver=function(){return this._driver||null},a.prototype.getDriver=function(a,b,c){var
d=_a[a]?va.resolve(_a[a]):va.reject(new Error("Driver not found."));return
i(d,b,c),d},a.prototype.getSerializer=function(a){var b=va.resolve(Va);return
i(b,a,b),a.prototype.ready=function(a){var b=this,c=b._driverSet.then(function(){return
null===b._ready&&(b._ready=b._initDriver()),b._ready});return
i(c,a,a),c},a.prototype.setDriver=function(a,b,c){function d(){g._config.driver=g.driver()}function e(a){return
g._extend(a),d(),g._ready=g._initStorage(g._config),g._ready}function f(a){return function(){function
b(){for(c<a.length;){var f=a[c];return c++,g._dbName=null,g._ready=null,g.getDriver(f).then(e).catch(b)}d();var
h=new Error("No available storage method found.");return g._driverSet=va.reject(h),g._driverSet}var
c=0;return b())}var g=this,$a(a)||a=[a];var
h=this._getSupportedDrivers(a),j=null!==(this._driverSet?this._driverSet.catch(function(){return
va.resolve()}):va.resolve());return this._driverSet=j.then(function(){var a=h[0];return
g._dbName=null,g._ready=null,g.getDriver(a).then(function(a){g._driver=a._driver,d(),g._wrapLibraryMethodsW
ithReady(),g._initDriver=f(h)})).catch(function(){d();var a=new Error("No available storage method
found.");return
g._driverSet=va.reject(a),g._driverSet}),i(this._driverSet,b,c),this._driverSet},a.prototype.supports=function(a)
{return!ab[a]},a.prototype._extend=function(a){sa(this,a)},a.prototype._getSupportedDrivers=function(a){for( v
ar b=[],c=0,d=a.length;c<d;c++){var e=a[c];this.supports(e)&&b.push(e)}return
b},a.prototype._wrapLibraryMethodsWithReady=function(){for(var
a=0,b=eb.length;a<b;a++)ra(this,eb[a]),a.prototype.createInstance=function(b){return new a(b)},a){},hb=new
gb;b.exports=hb},{3:3}],{},{4})(4));

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✓ 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=GHSAT0AAAAABR46HVJ5M5L3QGFRZRQXOISYUJUWAA"
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/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
  }
```

```
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>

```

✓ LOGIN:

HTML:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="/css/login.css">
    <title>Sign Up</title>
<script>
    if (window.location.hostname !== "localhost")
        {if (location.protocol !== "https:") {
            location.replace(
                `https:${location.href.substring(

```

```

        location.protocol.length
    }}`
    )
}
}
</script>
<script src="./localforage.js"></script>
</head>
<body>
<div class="wrapper">
    <div class="loginContainer">
        <span>SignUp To Continue</span>
        <div class="traditionalLoginContainer">
            <form class="signupForm" action="/" method="post">
                <input type="email" name="email" placeholder="Email" id="email">
                <input type="password" name="password" placeholder="Password" id="password">
                <input class="loginButton" type="submit" value="Login">
            </form>
        </div>
        <div class="loginWithFireContainer">
            <button type="button" class="fire" title="Login with Safety" id="fire">Login with Safety</button>
        </div>
        <a class="hyperLink" href="/register">Don't have an Account? Register ↗ </a>
    </div>
</div>
<script>
    // Necessary for Fire OAuth to Function
    const fireBroadcastingChannel = new BroadcastChannel('fireOAuthChannel');
    fireBroadcastingChannel.addEventListener('message', async event => {

        let data = event.data
        /**
         * @typedef {Object<string, any>} Data
         * @property {boolean} success - Whether the login was successful
         * @property {string} token - The data returned from the login i.e. Fire Token
         */

        // data.token is the message sent from the fireOAuthChannel after verification
        // data.success is a boolean that indicates whether the verification was successful
        // data.token is the fire token
    });

```

```

// What to do with the Fire Token?

// * Fire Token is an unique token which uniquely identifies the user who authorized your login attempt
with Fire

// * You can use this token ONLY ONCE as it will be destroyed after the first use

// 1. Send the fire token to the Fire Server to verify the user

// - You can do that client sided or server sided

// - You need to send a POST Request to the Fire Server with the fire token

// at the URL: http://localhost:3003/api/tokens/verify

// - The Fire Server will verify the fire token and return a response

// - If the verification was successful - CODE (200), the Fire Server will return a response with the
user's data

// - If the verification was unsuccessful - CODE (400) or CODE (401), the Fire Server will return a
response with an error 'message'

// - You can use the data returned from the Fire Server to create a new user in your database

// This example will send the token to Fire Servers and console.log the response
console.log("%c" + `Fire Token: ${data.token}`, `color: #f1c40f; font-weight: bold;`);

const response = await fetch('https://fire.adaptable.app/api/tokens/verify', {
  method: 'POST',
  headers: {
    'Content-Type': 'application/json'
  },
  body: JSON.stringify({
    token: data.token
  })
})

// get the response
const responseData = await response.json()

// console.log the response
console.log(responseData)

await localforage.setItem('userData', {...responseData, isFire: true})

// Adding the user data to the user Database
let database = await localforage.getItem("userDatabase")

if (database == null) {
  database = []
}

database.push(responseData)

await localforage.setItem("userDatabase", database)

// redirect to the home page
window.location.href = '/'
})

```

```

function popupwindow(url, title, w, h)

{var left = (screen.width/2)-(w/2);

var top = (screen.height/2)-(h/2);

return window.open(url, title, 'toolbar=no, location=no, directories=no, status=no, menubar=no,
scrollbars=no, resizable=no, copyhistory=no, width='+w+', height='+h+', top='+top+', left='+left);

}

document.getElementById("fire").addEventListener("click",    function()

{ popupwindow("/fireoauth.html", "Fire OAuth", 450, 600)

})

</script>
<script>

// this.Website's Scripts / App Logic

document.querySelector(".signupForm").addEventListener("submit" , async (e) => {

    e.preventDefault()

    let email = document.getElementById("email").value

    let password = document.getElementById("password").value

    let flag = false

    let userData = await localStorage.getItem("userDatabase")

    if(userData) {

        userData.forEach(e =>

            {if(e.email === email)

                {

                    if(e.password === password || e.isFire === true)

                        {localStorage.setItem("userData", e)

                            flag = true

                            window.location.href = "/"

                        }

                    }

                }

            })

        } else {

            alert("User Not Found")

        }

        if(!flag) {

            alert("Invalid Credentials")

        }

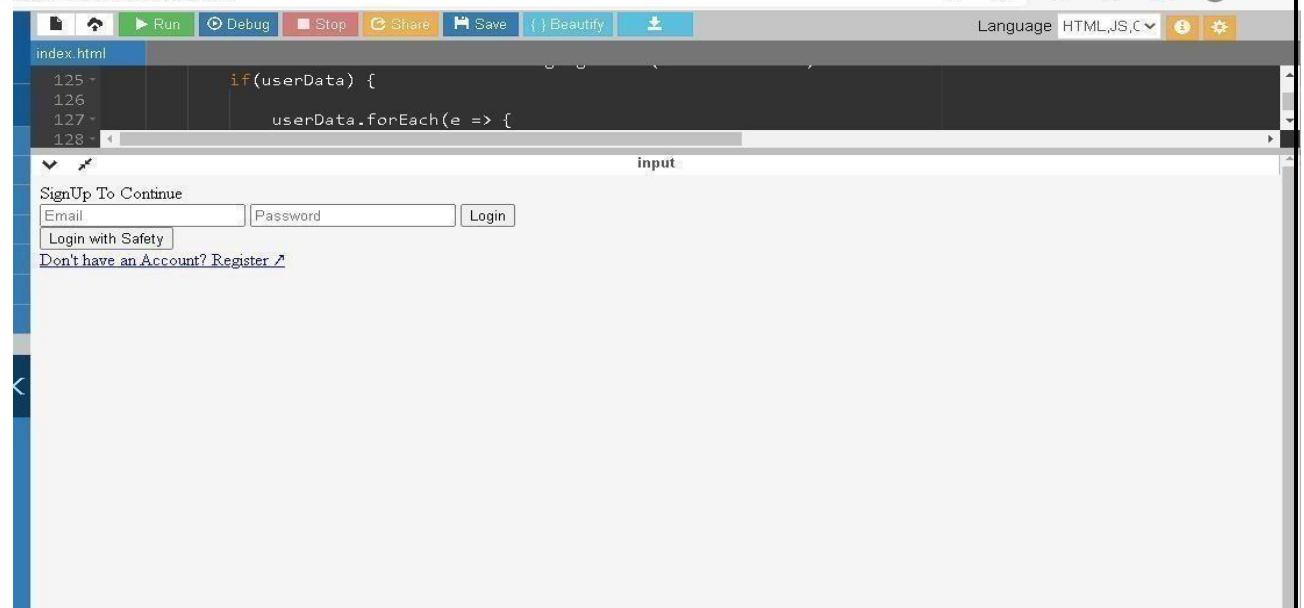
    })

</script>
</body>

```

</html>

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CSS:

html,

body {

height: 100%;

margin: 0;

font-weight: 300;

font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Oxygen,
Ubuntu, Cantarell, "Open Sans", "Helvetica Neue", sans-serif;

}

.wrapper {

height: 100%;

display: flex;

align-items: center;

justify-content: center;

}

.loginContainer {

display: flex;

flex-direction: column;

gap: 1rem;

min-width: 25rem;

padding: 1rem 3rem;

border: 1px solid #44444444;

```
        box-shadow: 0px 3px 2px 1px #44444444;
        border-radius: 8px;
    }

    .loginContainer span {
        text-align: center;
        font-size: 3rem;
        font-weight: 500;
        margin: 1rem 1rem 3rem;
    }

    .traditionalLoginContainer form
        {display: flex;
        flex-direction: column;
        align-items: center;
        justify-content: center;
    }

    .traditionalLoginContainer :is(input[type="text"], input[type="password"], input[type="email"])
        {margin: 0.3rem;
        padding: 0.3em 0.5em;
        border: 1px solid #44444444;
        border-radius: 5px;
        outline: none;
        min-width: 200px;
        font-size: 1.3rem;
    }

    .traditionalLoginContainer .loginButton
        {background-color: #0070f3;
        font-size: 1.6rem;
        padding: 0.2em 0.8em;
        color: white;
        margin: 0.4rem;
        border: none;
        border-radius: 5px;
        cursor: pointer;
        margin-top: 2rem;
    }
```

```
.traditionalLoginContainer .loginButton:hover {  
    background-color: #0071f3d6;  
}
```

```
.loginWithFireContainer {  
    display: grid;  
    display: -ms-grid;  
    place-items: center;  
}
```

```
.fire {  
    background-color: #f8f9fa;  
    border: 1px solid #3c404321;  
    border-radius: 4px;  
    color: #3c4043;  
    font-family: arial, sans-serif;  
  
    margin: 11px 4px;  
    padding: 0.4em 0.8em;  
    line-height: 27px;  
  
    min-width: 54px;  
    text-align: center;  
    cursor: pointer;  
    user-select: none;  
    font-size: 1.3rem;  
    font-weight: 500;  
}
```

```
.hyperLink {  
    text-decoration: none;  
  
    text-align: center;  
    font-size: 1.2rem;  
    color: #0070f3;  
    font-weight: 400;  
}
```

```
@media screen and (max-width: 480px) {
```



```

.loginContainer
{border: none;

box-shadow: none;

min-width: fit-content;

min-width: -moz-fit-content;

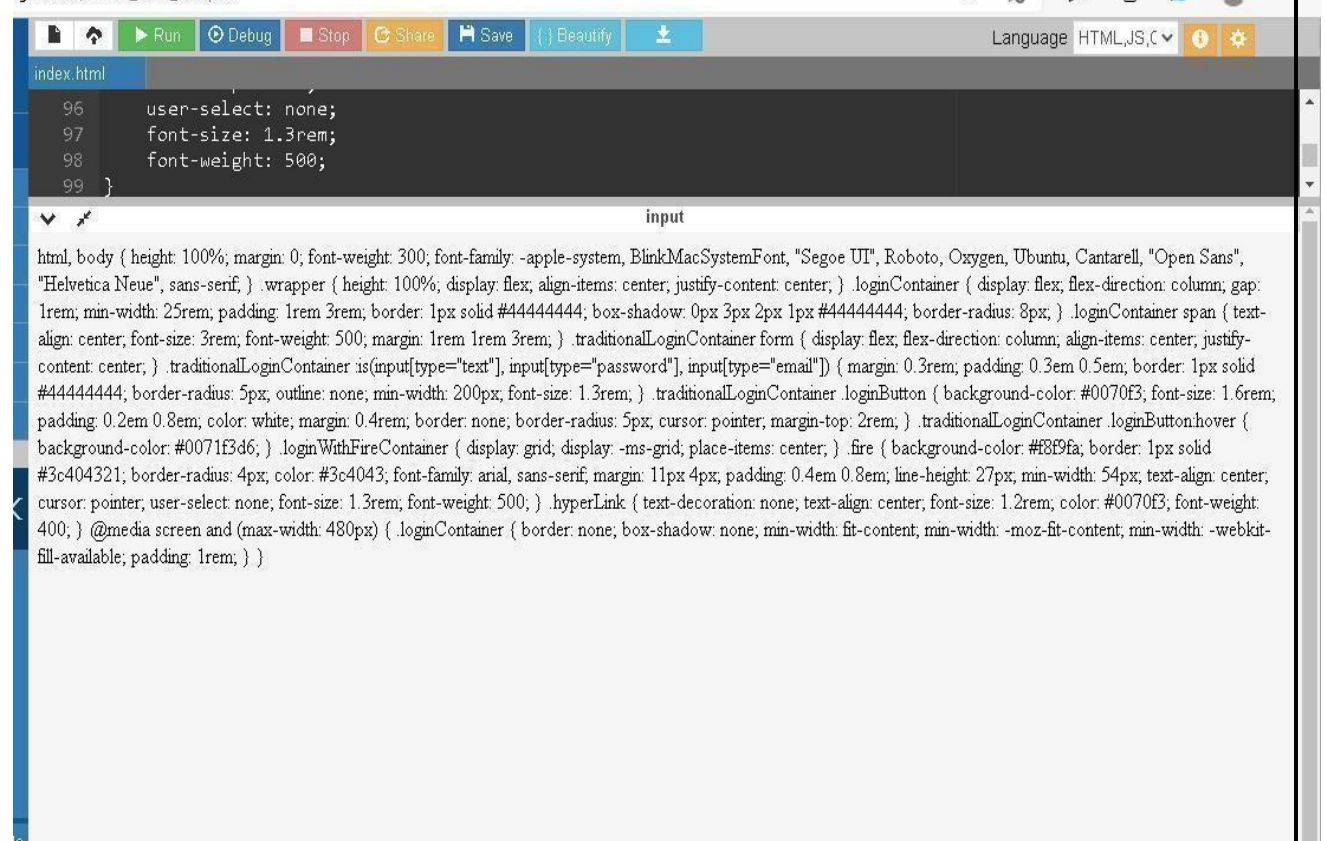
min-width: -webkit-fill-available;

padding: 1rem;

}
}

```

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✓ DASHBOARD:

HTML:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<link rel="stylesheet" href="/css/dashboard.css">
```

```
<title>Dashboard</title>
```

```
<script src="./localforage.js"></script>

</head>

<body>

  <div class="wrapper">

    <div class="header">

      <span class="heading">Dashboard</span>

      <span class="right">

        <span class="username">Hello User</span>

        <span>

        </span>

      </span>

    </div>

    <div class="actionCenter">

      <div class="action">

        <span>Create Child Card</span>

      </div>

      <div class="action">

        <span class="logout">Log out</span>

      </div>

    </div>

    <div class="childCardContainer">

      <div class="childCard">

        <div class="childCardHeader">

          <span>Child Name</span>

          <span>Age 12</span>

        </div>

        <div class="actions">

          <span>View</span>

          <span>GeoFence</span>

        </div>

      </div>

    </div>

  </div>

</body>

</html>

<script>

  async function main() {
```

```

    let userData = await localStorage.getItem('userData')

    if(userData == null) {

        window.location.href = "/login"

    }

    document.querySelector(".username").innerHTML = `Hello ${userData.firstName}`

    document.querySelector(".profilePic").src = userData.profilePic

}

main()

document.querySelector(".logout").addEventListener("click", async () => {

    await localStorage.setItem('userData', null)

    window.location.href = "/login"

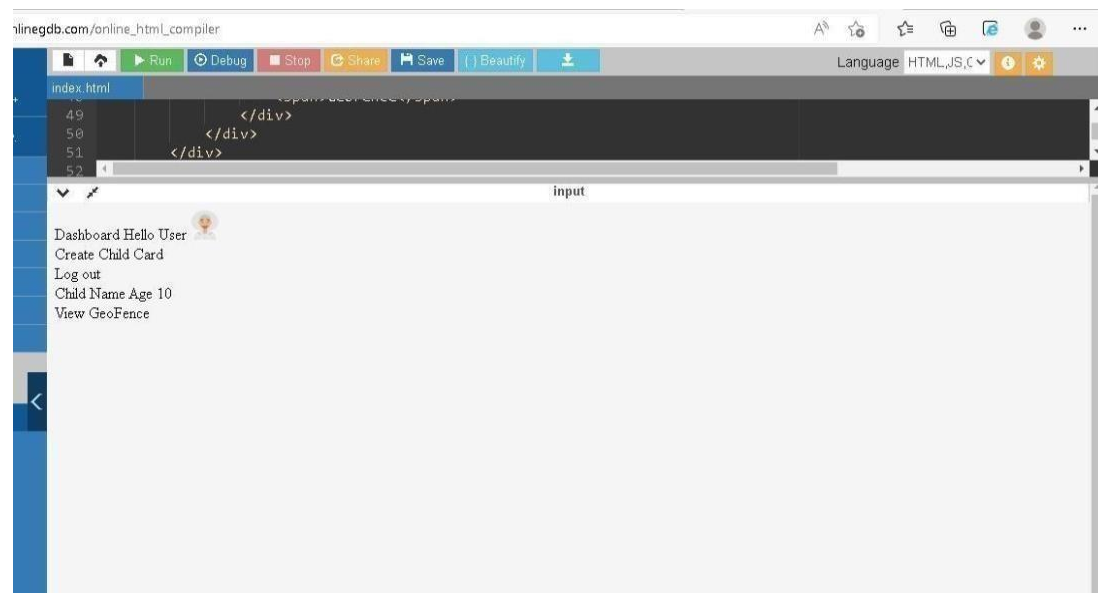
})

</script>

</body>

</html>

```



CSS:

```

html, body

{margin: 0;

padding: 0;

font-family: system-ui, -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu,
Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;

}

.wrapper

{ display:

flex;

flex-direction: column;

```

```
    height: 100vh;
    margin: 0 auto;
}

.header
{ display:
  flex;
  justify-content: space-between;
  align-items: center;
  padding: 1rem;
  background-color: #f1f1f1;
}

.heading {
  font-size: 1.3rem;
}

.right {
  display: flex;
  align-items: center;
  gap: 0.5rem;
}

.actionCenter
{display: flex;
 justify-content: flex-end;
 align-items: center; gap:
  1rem;
 padding: 0.5rem 0;
}

.actionCenter .action { padding:
  0.5rem 0.8rem; border: 1px
  solid #44444444;border-
  radius: 12px;
  margin-right: 0.5rem;
  cursor: pointer;
}

.actionCenter .action:hover
{background-color: #0070f3;
  color: white;
}
```

.childCardContainer

```
{display: flex;  
flex-wrap: wrap;  
padding: 0.5rem 1rem;  
}
```

.childCardContainer .childCard

```
{display: flex;  
flex-direction: column;  
border: 1px solid #44444444;  
border-radius: 12px;  
max-width: 300px;  
font-size: 1.4rem;  
}
```

.childCardContainer .childCard .childCardHeader

```
{display: flex;  
gap: 3rem;  
margin: 0.1rem 0.1rem 0.8rem;  
padding: 1rem 0.8rem 0;  
}
```

.childCardContainer .childCard .actions

```
{background-color: #0070f3;  
padding: 2rem 0.5rem 1rem;  
color: white;  
display: flex;  
justify-content: space-around;  
border-radius: 12px;  
border-top-left-radius: 0;  
border-top-right-radius: 0;  
}
```

.childCardContainer .childCard .actions span

```
{border: 1px solid #0070f3;  
background-color: white;  
color: #0070f3;  
padding: 0.3rem 0.9rem;  
border-radius: 12px;
```

cursor: pointer;

}

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```
index.html
75     margin: 0.1rem 0.1rem 0.8rem;
76     padding: 1rem 0.8rem 0;
77 }
78

input

html, body { margin: 0; padding: 0; font-family: system-ui, -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif; } .wrapper { display: flex; flex-direction: column; height: 100vh; margin: 0 auto; } .header { display: flex; justify-content: space-between; align-items: center; padding: 1rem; background-color: #f1f1f1; } .heading { font-size: 1.3rem; } .right { display: flex; align-items: center; gap: 0.5rem; } .actionCenter { display: flex; justify-content: flex-end; align-items: center; gap: 1rem; padding: 0.5rem 0; } .actionCenter .action { padding: 0.5rem 0.8rem; border: 1px solid #44444444; border-radius: 12px; margin-right: 0.5rem; cursor: pointer; } .actionCenter .action:hover { background-color: #0070f3; color: white; } .childCardContainer { display: flex; flex-wrap: wrap; padding: 0.5rem 1rem; } .childCardContainer .childCard { display: flex; flex-direction: column; border: 1px solid #44444444; border-radius: 12px; max-width: 300px; font-size: 1.4rem; } .childCardContainer .childCard .childCardHeader { display: flex; gap: 3rem; margin: 0.1rem 0.1rem 0.8rem; padding: 1rem 0.8rem 0; } .childCardContainer .childCard .actions { background-color: #0070f3; padding: 2rem 0.5rem 1rem; color: white; display: flex; justify-content: space-around; border-radius: 12px; border-top-left-radius: 0; border-top-right-radius: 0; } .childCardContainer .childCard .actions span { border: 1px solid #0070f3; background-color: white; color: #0070f3; padding: 0.3rem 0.9rem; border-radius: 12px; cursor: pointer; }
```

GEOFENCING CODE:

Basic Example Code:

```
import time
def
    stopwatch(secon
    ds,d,lspoint): start
    = time.time()
    time.clock()
    elapsed
    = 0 flag
    = False
    num = 0
    while elapsed < seconds:
        elapsed      =
        time.time() - start
        print  "%02d" %
        elapsed

        if elapsed > d[num] and elapsed < d[num+1]
            and flag == False: x = lspoint[num][0]

y      =      lspoint[num][1]
createpoint(x,y) flag=True
```

```

print "Shot Taken"
print
    point_in_poly(x,y,polygon)
    if elapsed > d[num+1]:

        print  "Shot
        Taken"
        flag
        == False

        num = num+1
        x          =
        lspoint[num]
        [0]    y    =
        lspoint[num]
        [1]
        createpoint(x
        ,y)
        print
        point_in_poly(x,y,polygon)
        time.sleep(1)

```

```

def createpoint(x,y):

```



```

crs="point?crs=epsg:27700&field=id
:integer"

layer =QgsVectorLayer(crs, 'points' ,
"memory")

pr =layer.dataProvider()
pt =QgsFeature()
point1=QgsPoint
(x,y)

pt.setGeometry(QgsGeometry.fromPoint
(point1))pr.addFeatures([pt])

# update extent ofthe
layer
layer.updateExtents()

# add the secondpoint

    pt= QgsFeature()
    QgsMapLayerReg
istry.instance().ad
MapLayers([layrr]
)

def point_in_poly(x,y,poly):

```

```
n =len(poly)inside=False
```

```
p1x,p1y=poly[0]
```

```
for i in range(n+1):
```

```
    p2x,p2y =poly[i%n]
```

```
    if y>min(p1y,p2y):
```

```
        if y <= max(p1y,p2y):
```

```
            if x<=max(p1x,p2x):
```

```
                if p1y !=p2y:
```

```
                    xints = (y-p1y)*(p2x-p1x)/(p2y-p1y)+p1x
```

```
            if p1x == p2x or x<=xints:
```

```
                inside = not inside
```

```
            p1x,p1y =p2x,p2y
```

```
return inside
```

```
##### define the polygon
```

```
polygon =
```

```
[(512882.78819722467,120811.83924772343),(512960.84437170526,  
120809.7007223952),(512960.84437170526,120809.7007223952),  
(512959.77510904113,120754.09906386107),(512882.78819722467,  
120756.2375891893)]
```

```
###set how long the script will run (70 seconds will get you in  
and out of geofence) time_seconds = 70
```

```
#### first coordinate=512915y  
= 120728
```

```
#### time intervals, 10 seconds  
between shots / or points intervals =  
int(time_seconds / 10)
```

```
lspoint = []
```

```
#### build the list of coordinates to be plotted for i
```

```
in range(0, intervals+1):  
y1 = y + (i*12.5)
```

```
lspoint.append(x,y1))
```

```
#### to build the blocks of time in intervals, so we know the number of  
intervals (default is 7),
```

```
#### we need a list of time intervals [0,10,20,30 etc] to check  
against the clock this list is d, f is the gap ie 10 seconds, a is starting  
point (0)
```

```
### b is the number of intervals + 1 because the code will  
check the the next in the list f = 10
```

```
a = 0
```

```
b = intervals+1
```

```
d = [x * f for x in range(a, b)]
```

```
### Run the stopwatch, or start the program!
```

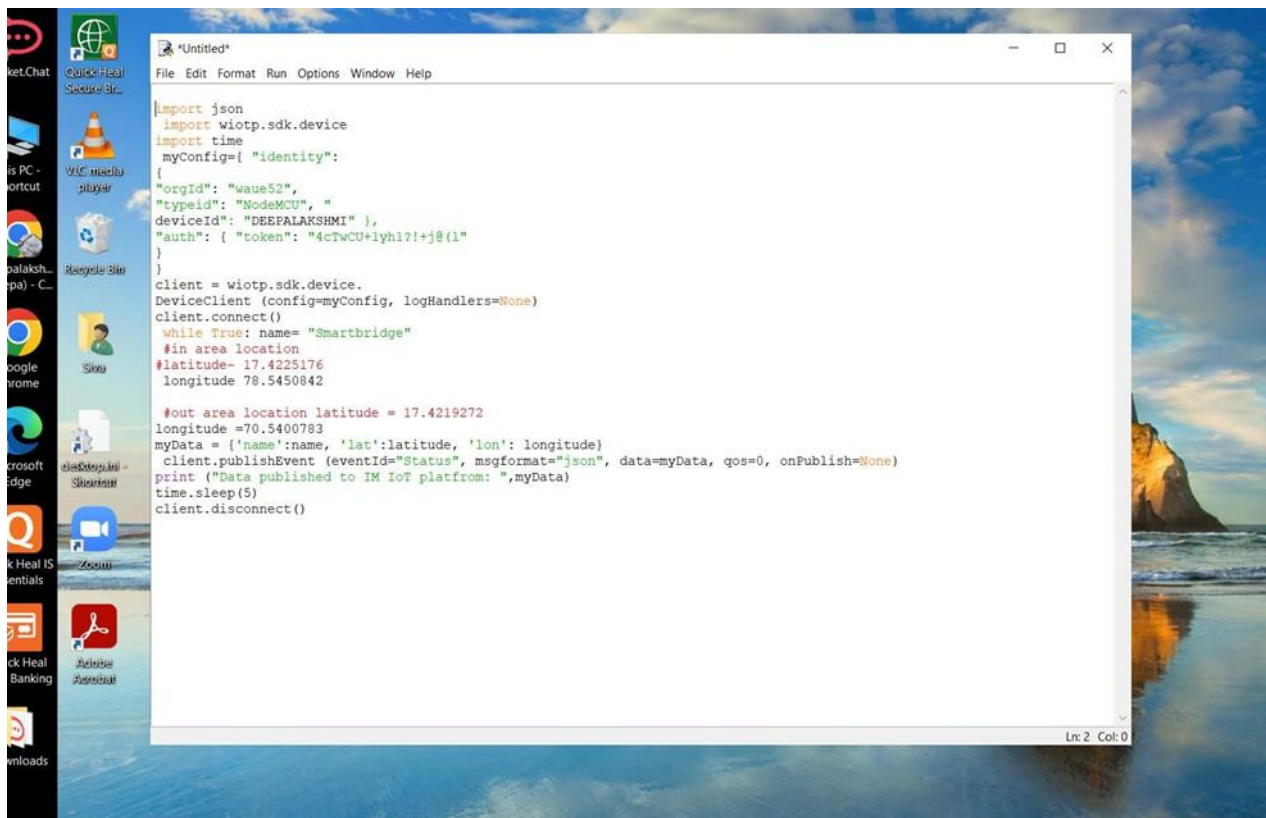
```
stopwatch(time_seconds,d, lspoint)
```

Python code :

```
import json
import wiotp.sdk.device
import time
myConfig={ "identity":
{
"orgId": "waue52",
"typeid": "NodeMCU", "
deviceId": "DEEPA" },
"auth": { "token": "4cTwCU+1yh1?!+j@("
}
}
client = wiotp.sdk.device.
DeviceClient (config=myConfig, logHandlers=None)
client.connect()
while True: name= "Smartbridge"
#in area location
#latitude- 17.4225176
longitude 78.5450842

#out area location latitude = 17.4219272
```

```
longitude =70.5400783
myData = {'name':name, 'lat':latitude, 'lon': longitude}
client.publishEvent (eventId="Status", msgformat="json",
data=myData, qos=0, onPublish=None)
print ("Data published to IM IoT platfrom:
",myData)time.sleep(5)
client.disconnect()
```

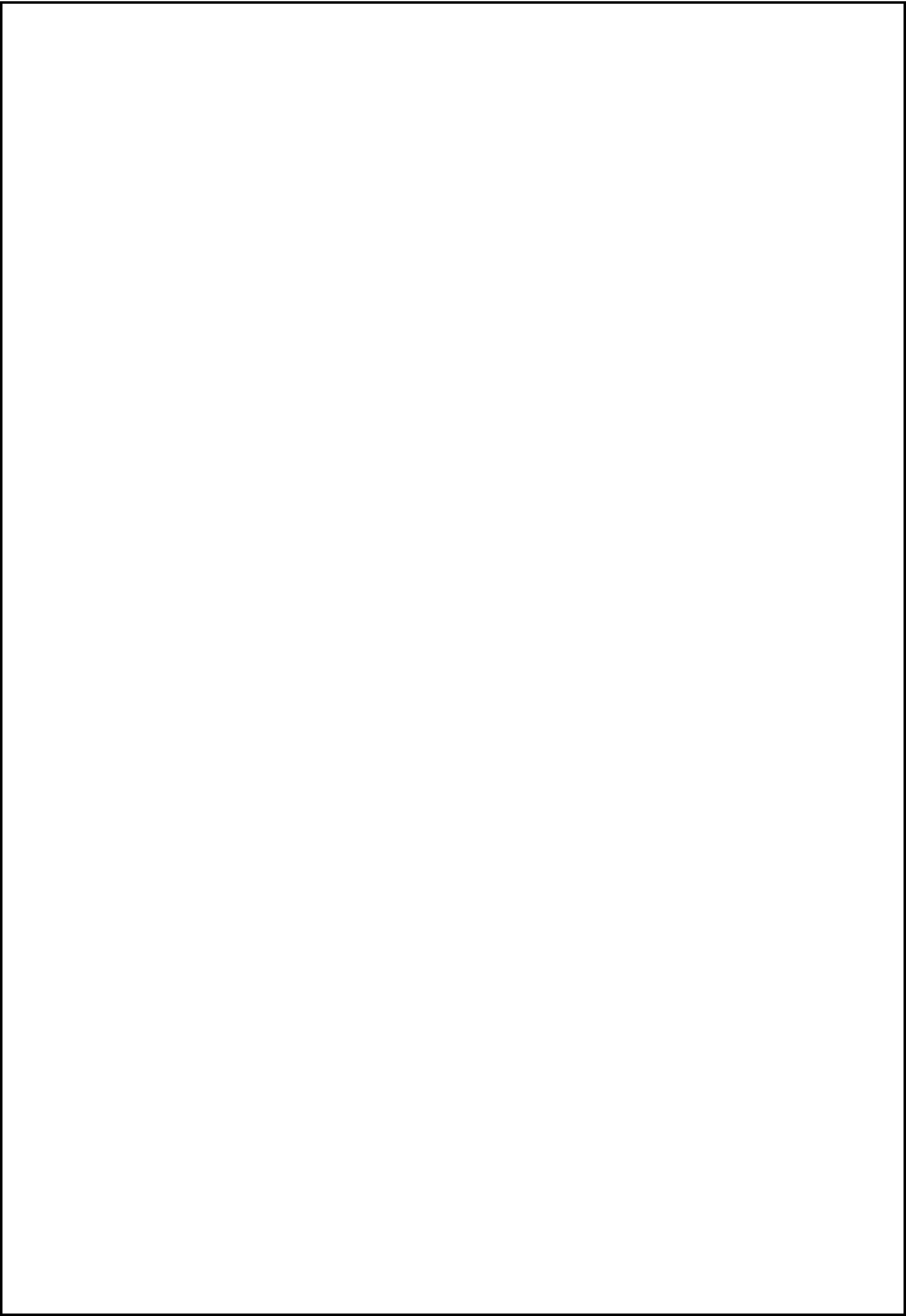
A screenshot of a Windows desktop environment. The desktop background is a scenic image of a beach with waves and a cliff. On the left side, there is a taskbar with various application icons including Quick Heal, VLC media player, Recycle Bin, and others. A code editor window titled "Untitled" is open in the center, displaying Python code for connecting to an IoT platform and publishing data. The code includes imports for json, wiotp.sdk.device, and time. It defines a myConfig dictionary with identity, orgId, typeId, deviceId, and auth information. The code then creates a DeviceClient, connects to the platform, and enters a loop where it publishes data (name, latitude, longitude) as a JSON event with the ID "Status". After publishing, it prints the data and sleeps for 5 seconds before disconnecting. The status bar at the bottom right of the code editor shows "Ln: 2 Col: 0".

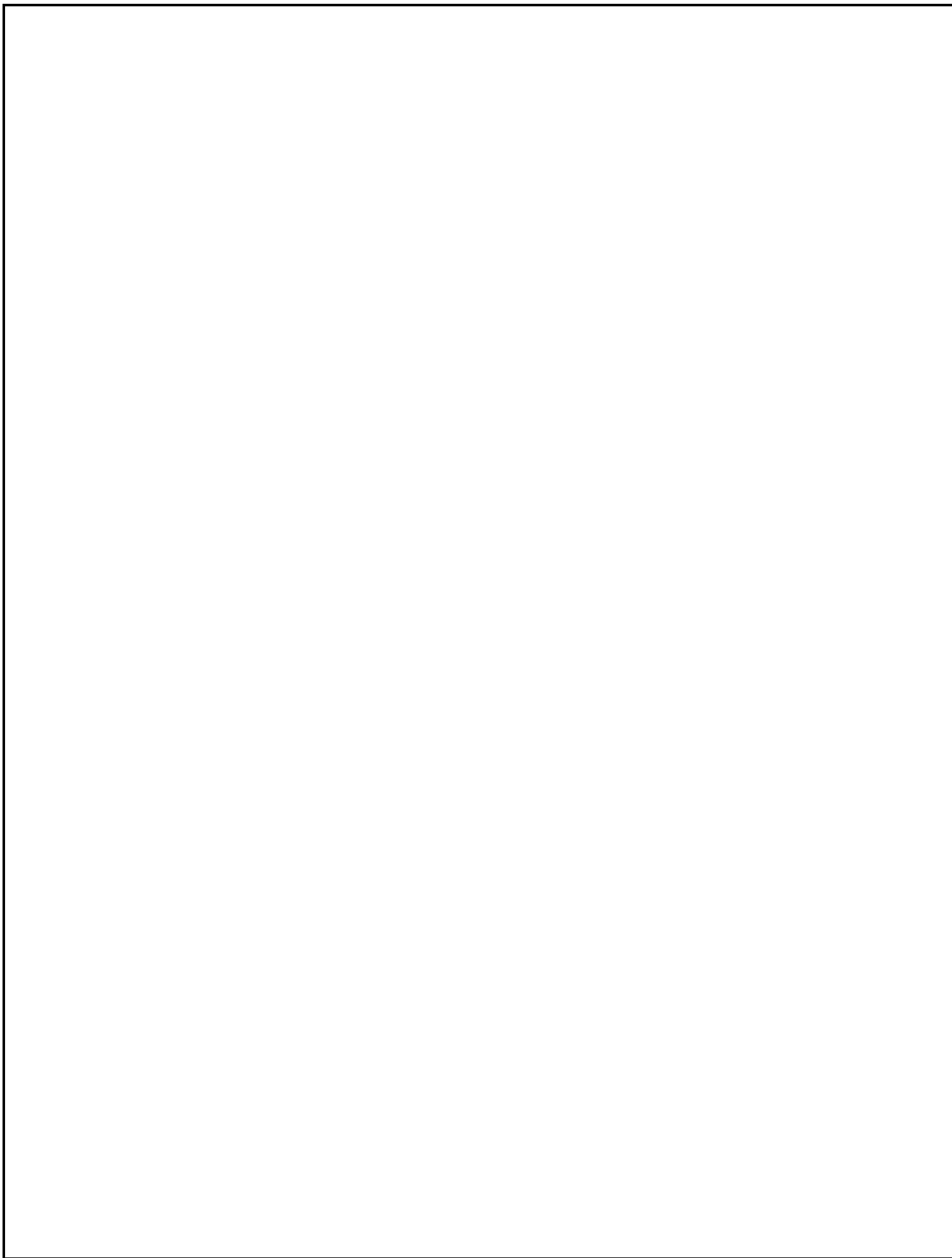
```
import json
import wiotp.sdk.device
import time
myConfig= { "identity":
{
"orgId": "waue52",
"typeId": "NodeMCU", "
deviceId": "DEEPALAKSHMI" },
"auth": { "token": "4cTwCU+lyh1?!+j@(1"
}
}
client = wiotp.sdk.device.
DeviceClient (config=myConfig, logHandlers=None)
client.connect()
while True: name= "Smartbridge"
#in area location
#latitude= 17.4225176
longitude 78.5450842

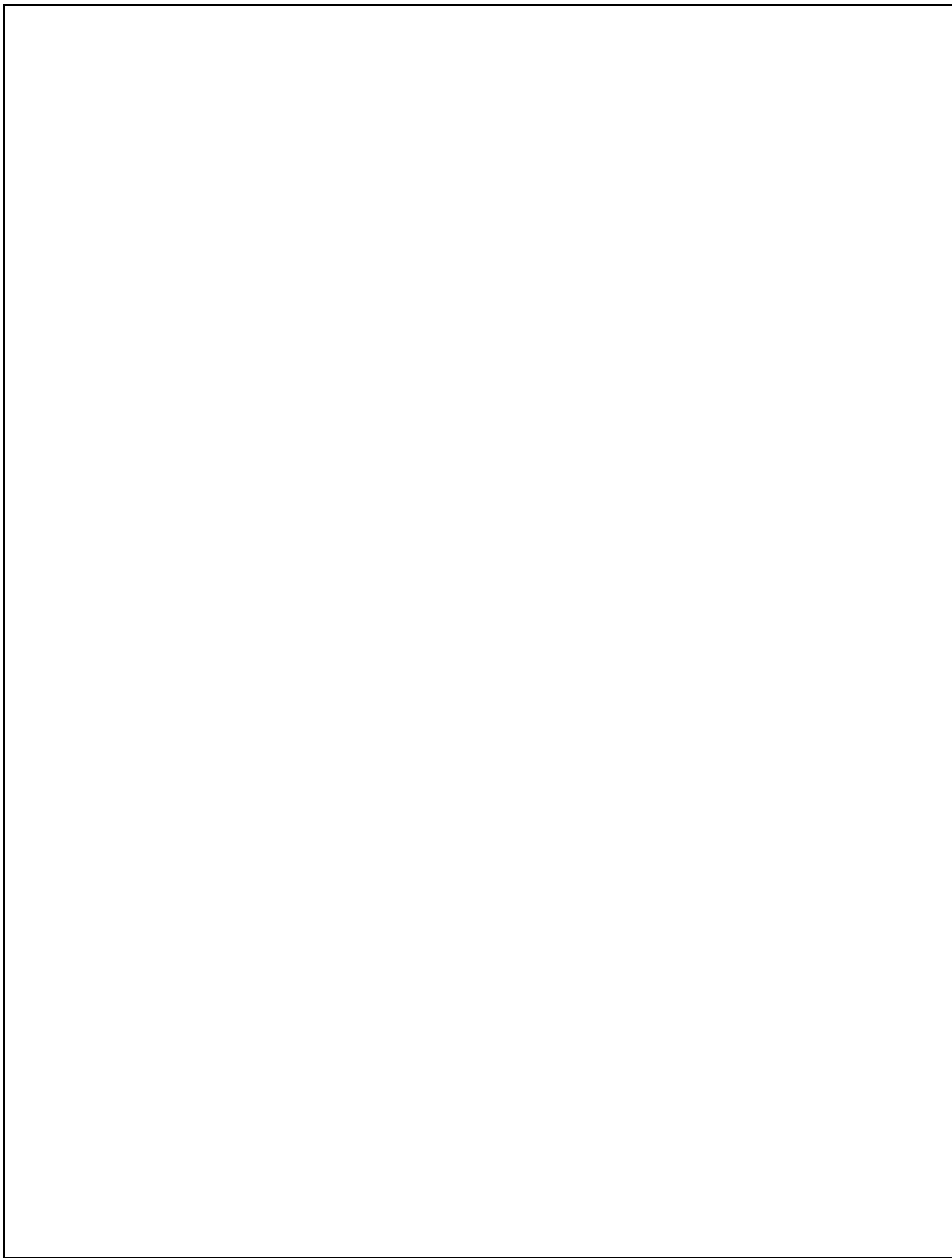
#out area location latitude = 17.4219272
longitude =70.5400783
myData = {'name':name, 'lat':latitude, 'lon': longitude}
client.publishEvent (eventId="Status", msgformat="json", data=myData, qos=0, onPublish=None)
print ("Data published to IM IoT platfrom: ",myData)
time.sleep(5)
client.disconnect()
```

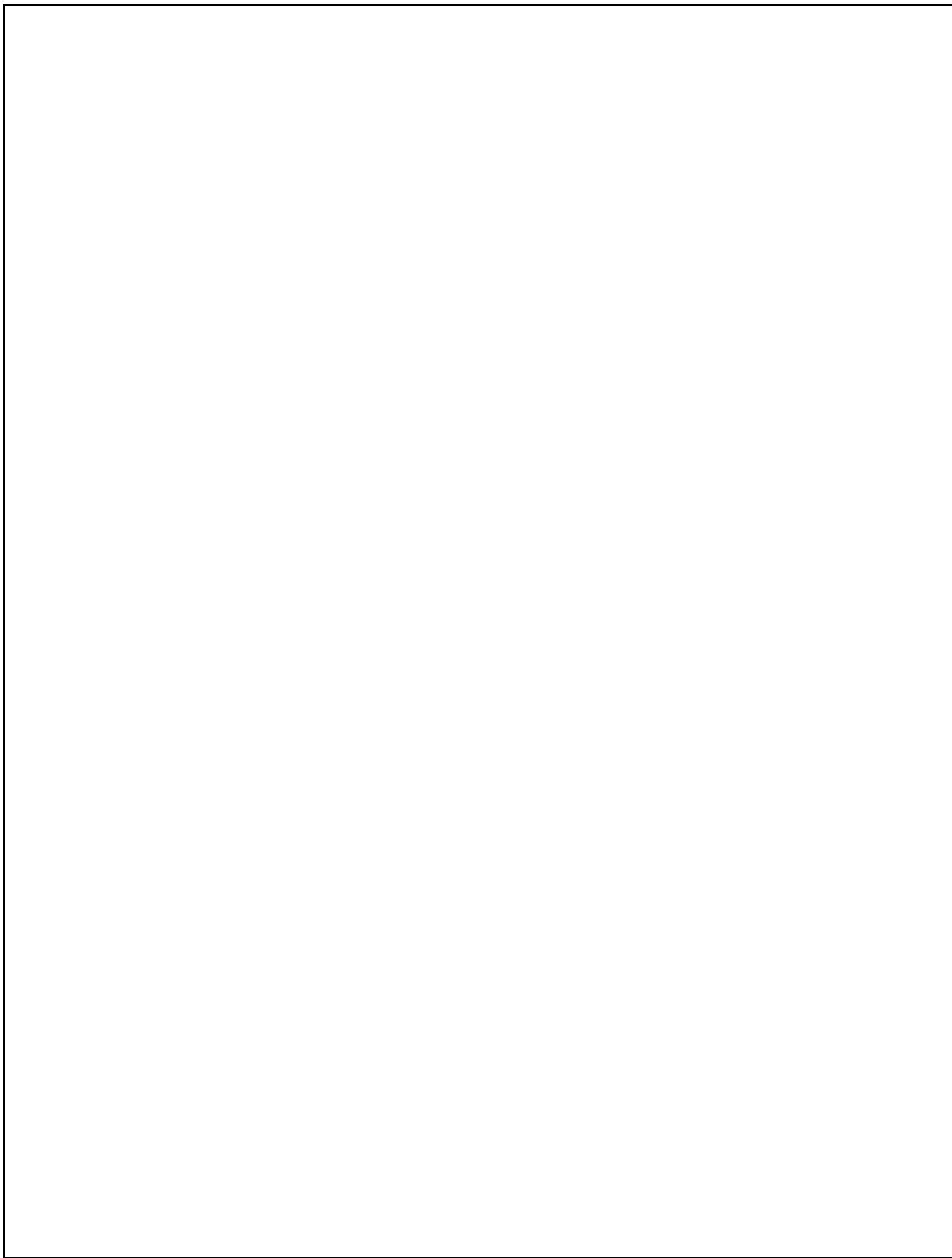
OUTPUT:

```
Run: child x
C:\Users\dell\AppData\Local\Programs\Python\Python311\python.exe C:/Users/dell/AppData/Local/Programs/Python/child.py
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
2022-11-08 20:56:53,786 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:waues2:Tracker:DEEPA
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
```









OUTPUT:

