npx create-react-app jbook --template typescript

**Install ES-Build**

npm install --save-exact esbuild-wasm@0.8.27

**Create an index.tsx file in the src folder:**

src -> index.tsx

import ReactDOM from "react-dom";

const App = () => {

    return <h1>Hi</h1>;

}

ReactDOM.render(<App />, document.querySelector('#root'));

npm start to start the application.

**Copy the transpiler file into our public folder.**

Go the node\_modules -> esbuild-wasm

Copy the esbuild.wasm file into the public folder.

**Initializing ESBuild**

index.tsx

import \* as esbuild from 'esbuild-wasm';

import ReactDOM from "react-dom";

import { useState, useEffect, useRef } from "react";

const App = () => {

    const ref = useRef<any>();

    const [input, setInput] = useState('');

    const [code, setCode] = useState('');

    const startService = async () => {

        ref.current = await esbuild.startService({

            worker: true,

            wasmURL: '/esbuild.wasm'

        })

    }

    useEffect(() => {

        startService();

    }, [])

    const onClick = async () => {

        if (!ref.current) {

            return;

        }

        const result = await ref.current.transform(input, {

            loader: 'jsx',

            target: 'es2015'

        });

        setCode(result.code);

    }

    return <div>

        <textarea value={input} onChange={e => setInput(e.target.value)}></textarea>

        <div>

            <button onClick={onClick}>Submit</button>

        </div>

        <pre>{code}</pre>

    </div>

}

ReactDOM.render(<App />, document.querySelector('#root'));

Code is transpiled in our browser:

A screenshot of a computer

Description automatically generated

**Bundling with ESBuild**