

# Documentation

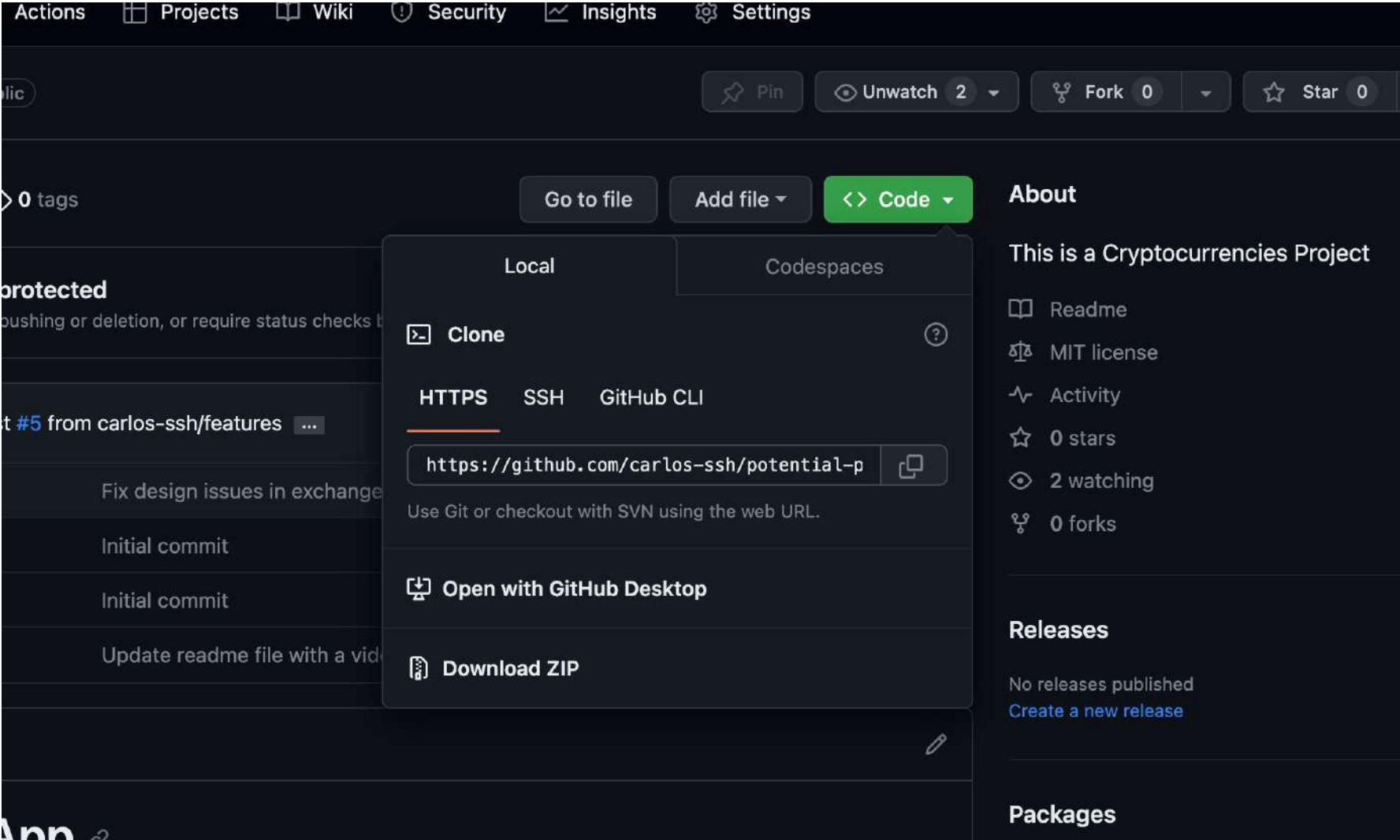
In this file i want to share the way on how you can easy run Crypto Trade App in your local machine.

## The first thing that we need to do is:

- Visit the GitHub repository and download the project: <https://github.com/carlos-ssh/potential-parakeet>

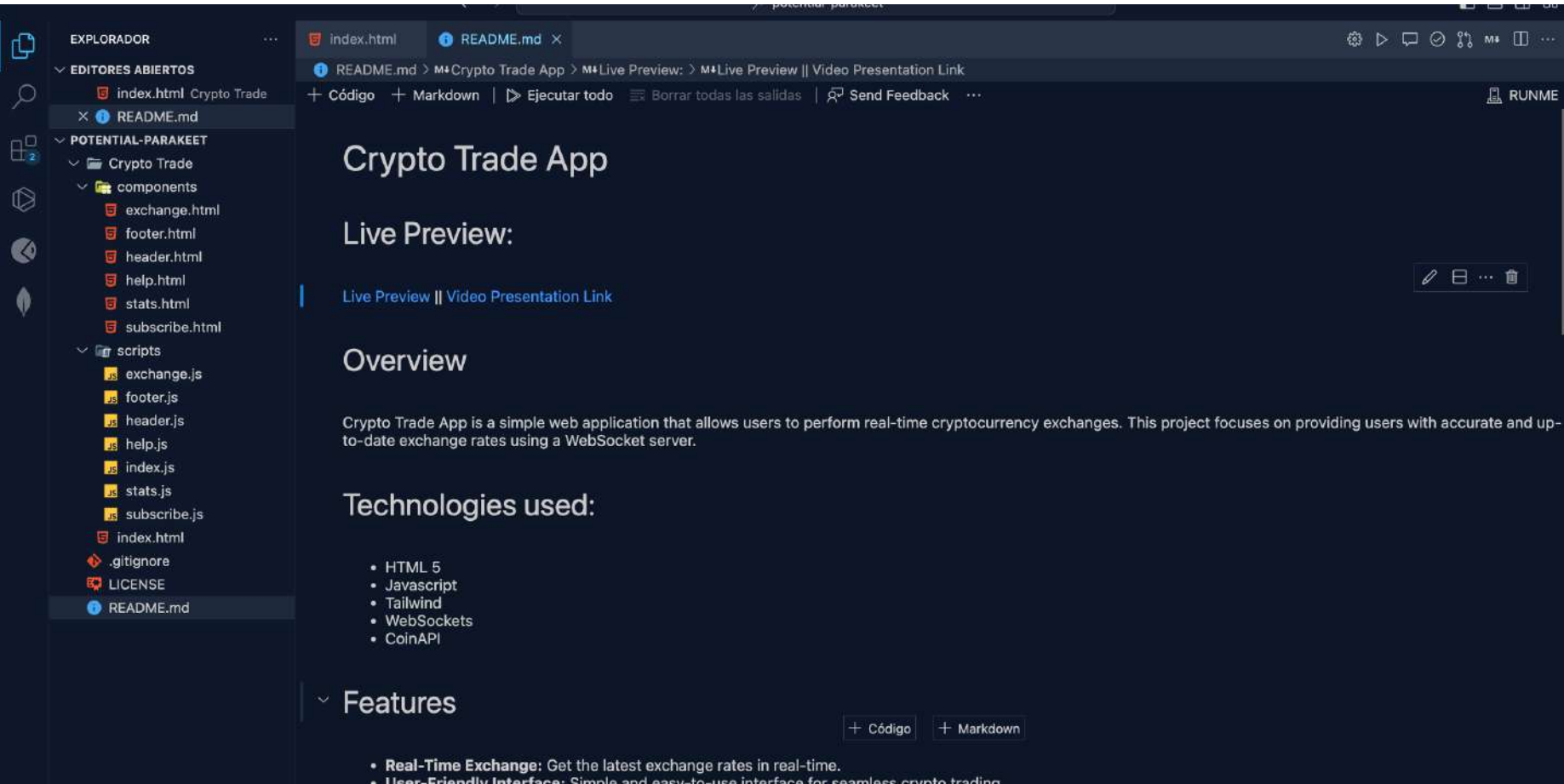
<https://github.com/carlos-ssh/potential-parakeet>

- Then download the project



## Once you already have the project directory in your machine.

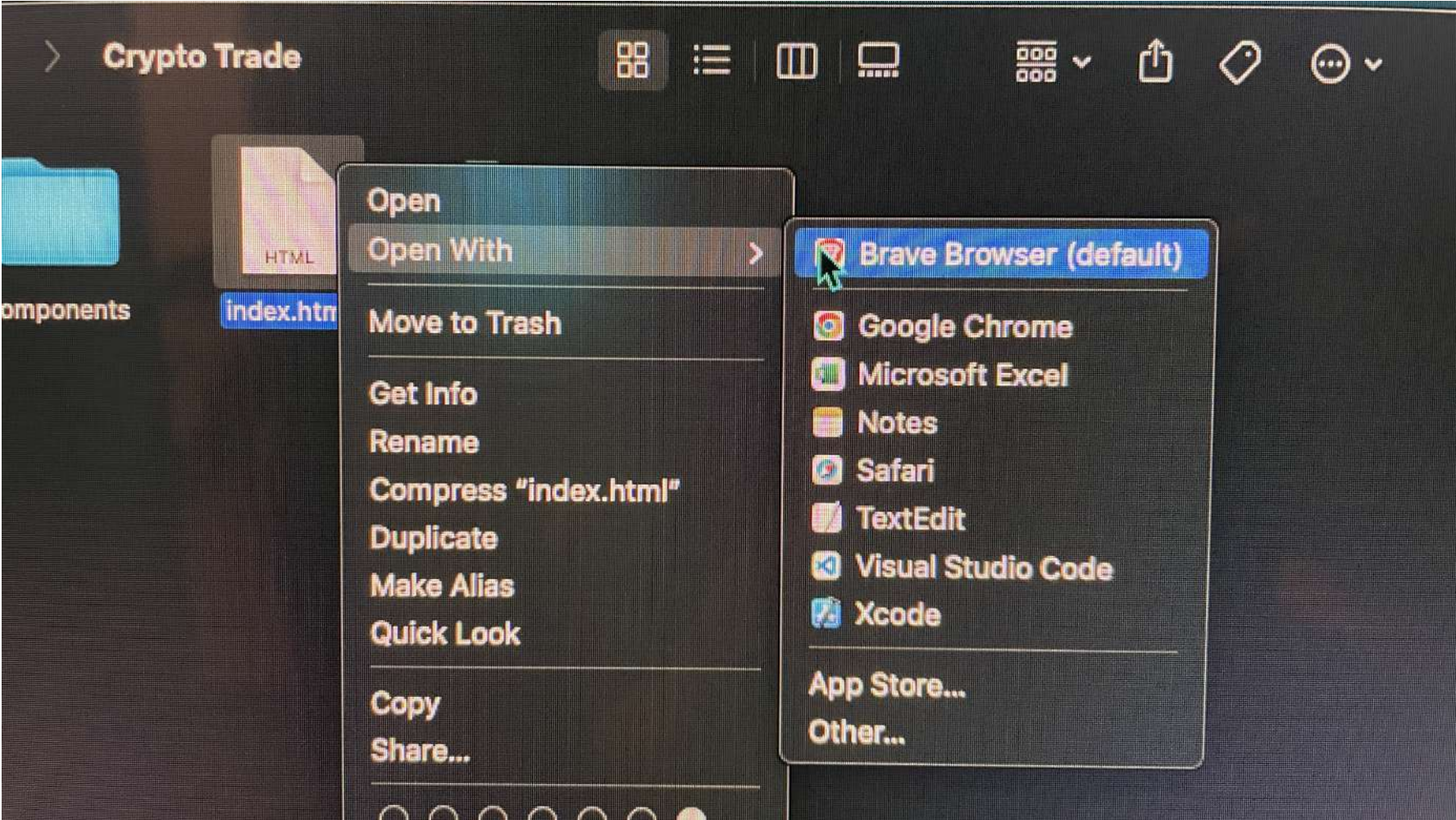
- Open the project in your code editor of your preference. In this example i'm going to use VSCode



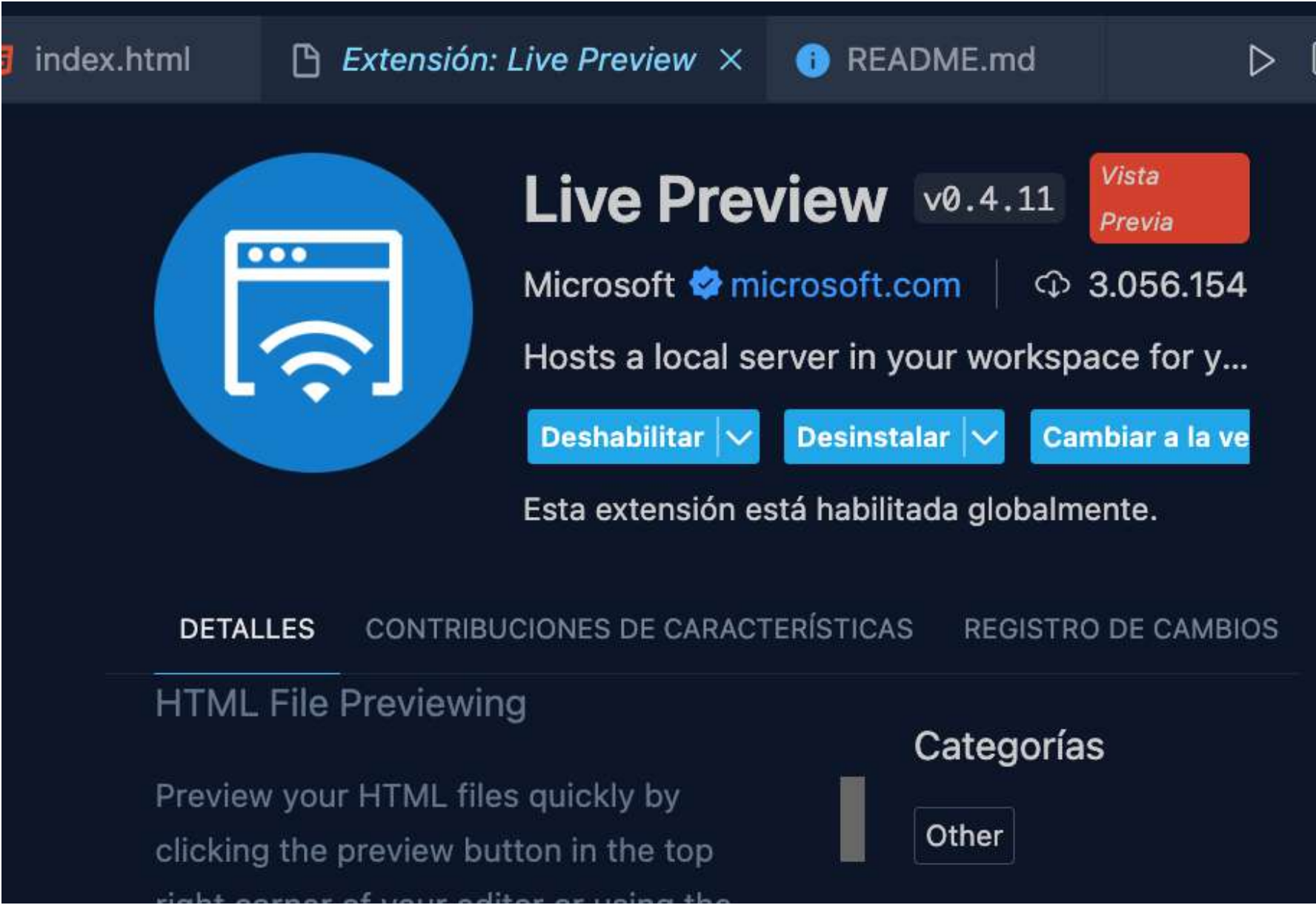
You can have all the information related to this project in the README file



- To visualize the application in your internet browser just simply open the `index.html` file in your browser.

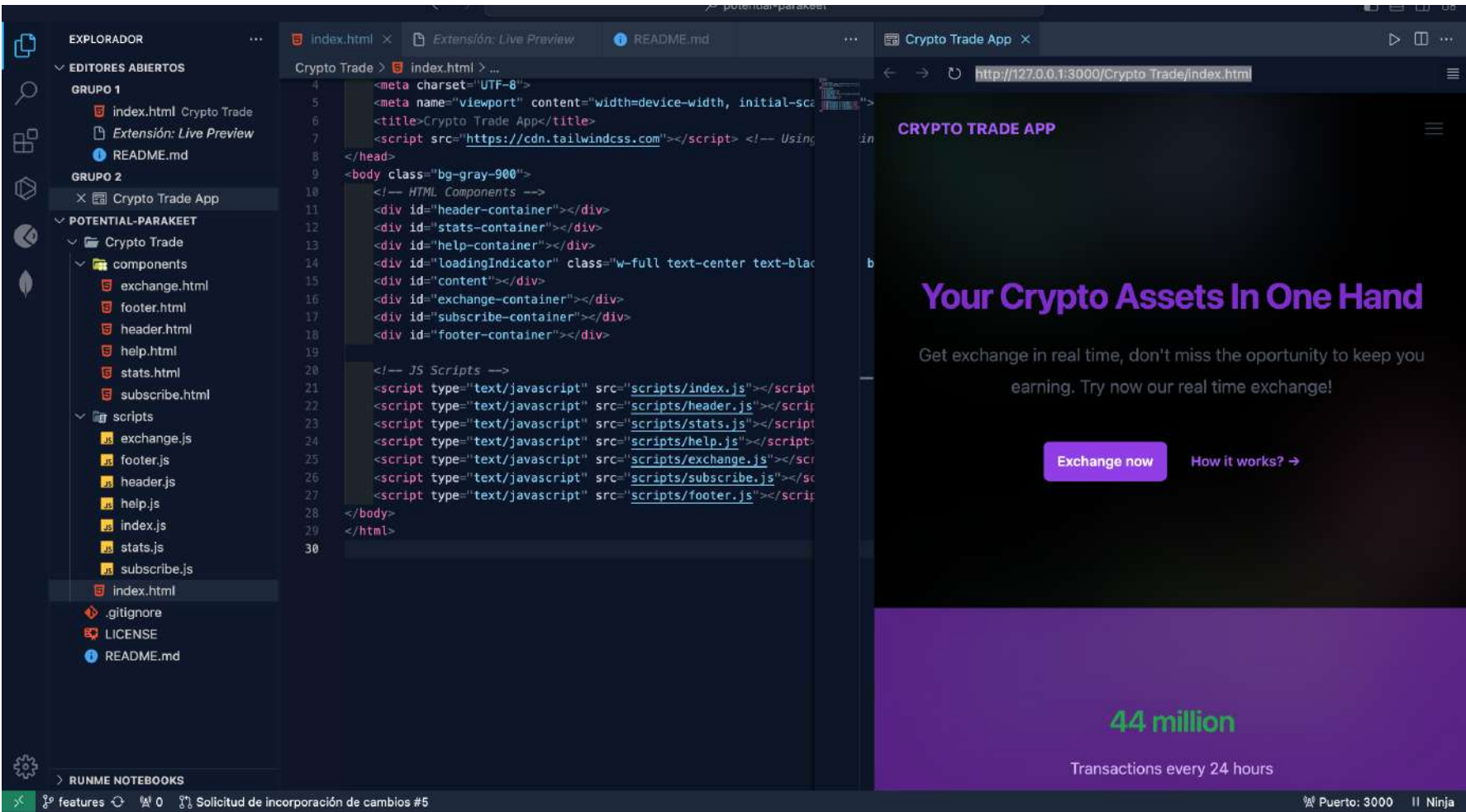


- Or simply use the plugin Live Preview of Microsoft



- If you use the Microsoft Plugin just give a right click in your html file and select: Show preview  
This will generate a localserver and an address like this: `http://127.0.0.1:3000/Crypto Trade/index.html`



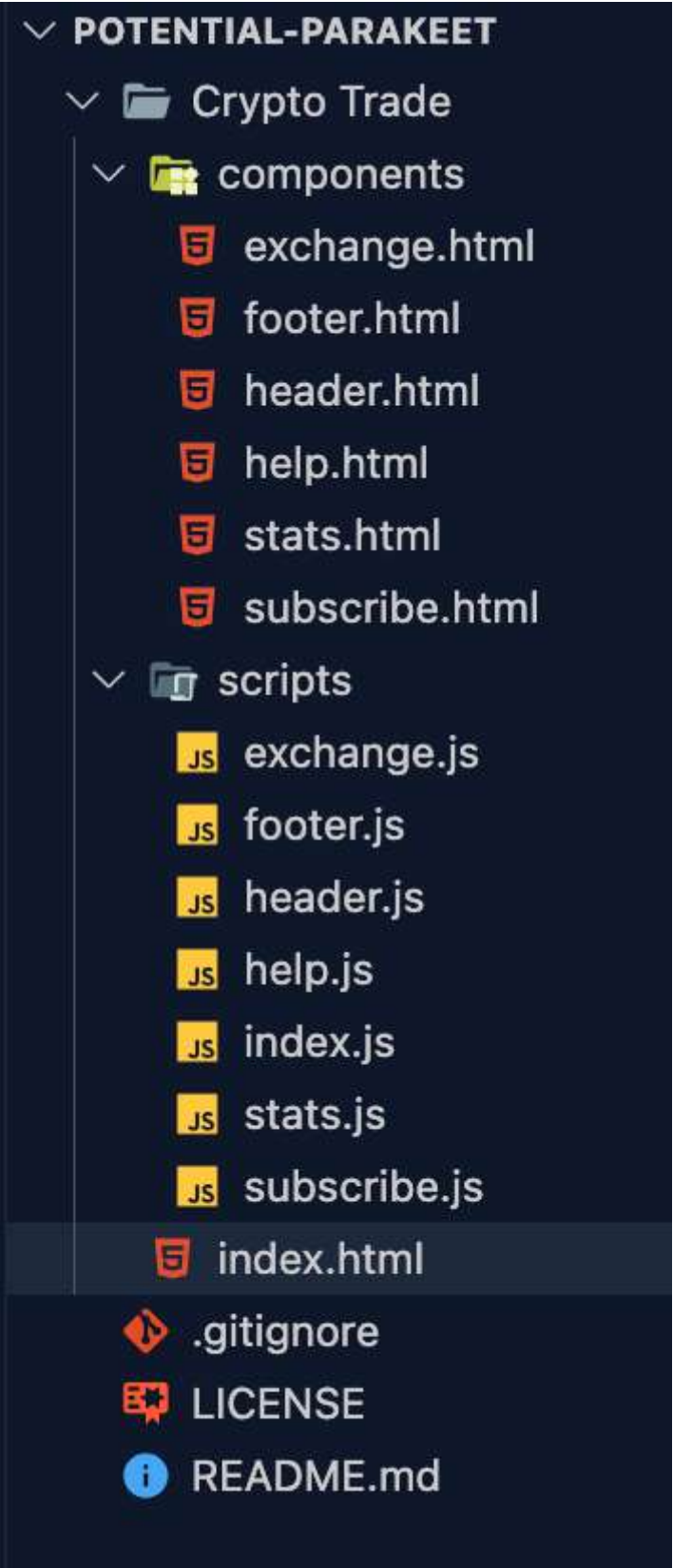


Now you will have the application running!.

## Project structure:

This project is using TailwindCSS, HTML, JS & Websocket Server.

This is the main structure of the project:



This is the Index.html file:

```
Crypto Trade > index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Crypto Trade App</title>
7      <script src="https://cdn.tailwindcss.com"></script> <!-- Using Tailwind CDN -->
8  </head>
9  <body class="bg-gray-900">
10     <!-- HTML Components -->
11     <div id="header-container"></div>
12     <div id="stats-container"></div>
13     <div id="help-container"></div>
14     <div id="loadingIndicator" class="w-full text-center text-black py-3 bg-yellow-400 font-bold">Loading...</div>
15     <div id="content"></div>
16     <div id="exchange-container"></div>
17     <div id="subscribe-container"></div>
18     <div id="footer-container"></div>
19
20     <!-- JS Scripts -->
21     <script type="text/javascript" src="scripts/index.js"></script>
22     <script type="text/javascript" src="scripts/header.js"></script>
23     <script type="text/javascript" src="scripts/stats.js"></script>
24     <script type="text/javascript" src="scripts/help.js"></script>
25     <script type="text/javascript" src="scripts/exchange.js"></script>
26     <script type="text/javascript" src="scripts/subscribe.js"></script>
27     <script type="text/javascript" src="scripts/footer.js"></script>
28 </body>
29 </html>
30
```

I'm using JavaScript to import HTML components to avoid a long lines of code in the index.html.  
Is super simple to understand how i did it you can navigate between files easily.

In the index.js i have the Web socket calls. there i leaved the API KEY just for this example purposes. After your review i will delete it.



index.html   Extensión: Live Preview   README.md   JS index.js   X

Crypto Trade > scripts > JS index.js > ...

```
1  const socket = new WebSocket('wss://ws.coinapi.io/v1/');
2  const loadingIndicator = document.getElementById('loadingIndicator');
3  const fiatAssetSelector = document.getElementById('fiatAsset');
4  const cryptoAssetSelector = document.getElementById('cryptoAsset');
5
6  let selectedCryptoAsset;
7  let selectedFiatAsset;
8
9  // This function opens the Socket Channel
10 socket.onopen = function (event) {
11     if (loadingIndicator) {
12         loadingIndicator.classList.add('hidden');
13     }
14
15     socket.send(JSON.stringify({
16         "type": "hello",
17         "apikey": "61310500-A174-47AB-95CF-35227A09B89D", // Set here your own API key. This one is
18         "subscribe_data_type": ["trade"],
19         "subscribe_filter_asset_id": [`BITSTAMP_SPOT_BTC_USD$`, "BITFINEX_SPOT_BTC_LTC$"]
20     }));
21 };
22
23 // This function help us to generate a formated timestamp
24 function formatTimestamp(timestamp) {
25     return new Intl.DateTimeFormat('en-US', {
26         year: 'numeric',
27         month: '2-digit',
28         day: '2-digit',
29         hour: '2-digit',
30         minute: '2-digit',
31         second: '2-digit',
32         timeZone: 'UTC'
33     }).format(new Date(timestamp));
34 }
35
36 // This function is executed once you click 'Exchange now' button
37 function updateExchangeRate() {
38     const cryptoAssetSelect = document.getElementById('cryptoAsset');
```

Screenshot

I hope you find this explanation super simple. If you have doubts don't hesitate in approach to me.

## Helpful links:

Repository Link: <https://github.com/carlos-ssh/potential-parakeet>

Live Preview: <https://rawcdn.githack.com/carlos-ssh/potential-parakeet/ea59fee8ce85a386cd6b72bbd2338c3afb5d3e23/Crypto%20Trade/index.html#realtime>

Video Explanation: <https://www.loom.com/share/f849df80b96d40ce9074d34c7ca57958?sid=5d27cf7b-d3e7-4965-9bbb-249f4724808e>