Problem 2: Fancy Form

Contents

1. OVERVIEW

Link demo:

https://currency-swap-ten.vercel.app/

Technology:

- NextJS, TypeScript, TailwindCSS.

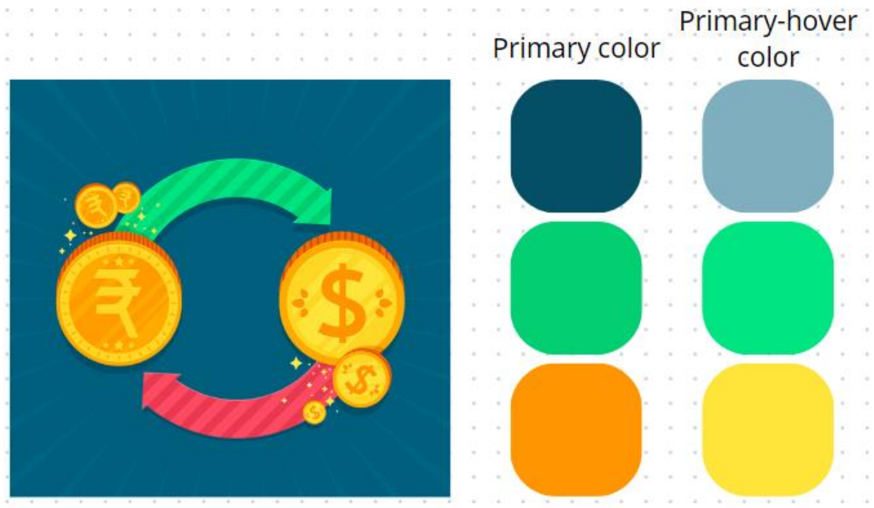
Flow:

Note: I don't have enough time to draw a Sequence diagram. So I will present step by step.

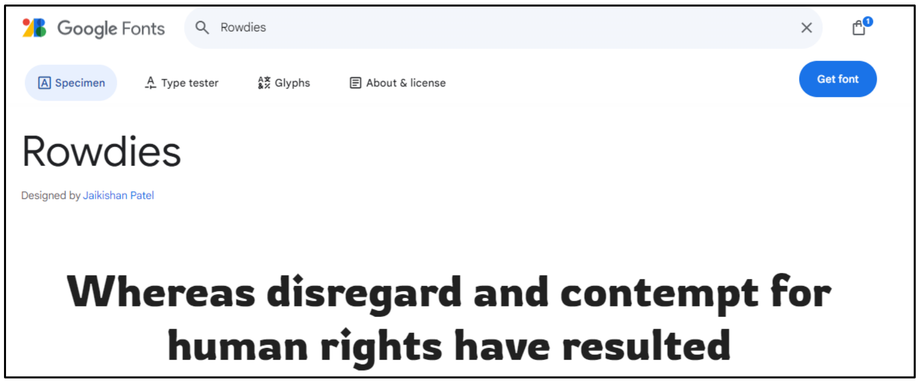
1. User input amount to send and select token to swap.
2. Send 3 variables to the system:
- amountToSend
- sendTokenId
- receiveTokenId.
3. Call API to get token prices base on sendTokenId, receiveTokenId.
4. Calculate swapping.
5. Display result for user.

Template:

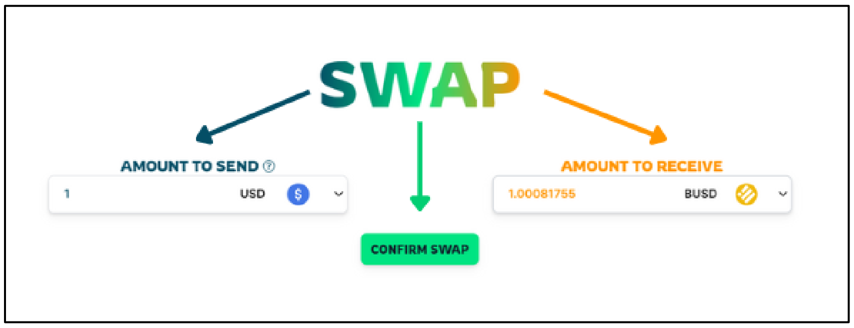
- I searched for ideas "currency swap" and I chose this photo. By standard, a website should only have 3 colors. so I picked out 3 primary colors and 3 primary-hover colors.



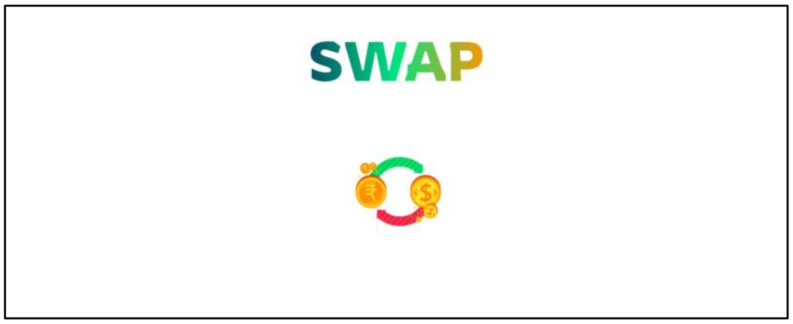
- I searched for fonts for the entire website on google fonts and I choose **Rowdies font**.

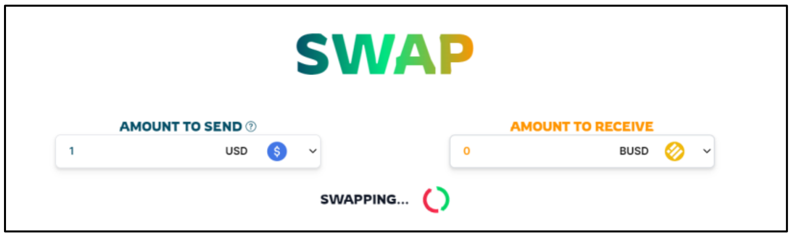

Google Fonts
Rowdies
Specimen
Type tester
Glyphs
About & license
Get font
Rowdies
Designed by Jaikishan Patel
Whereas disregard and contempt for human rights have resulted

Layout ideas:



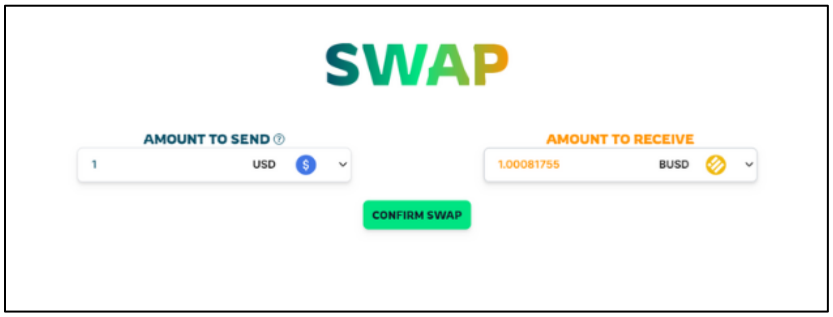
Loading page at first render and timeout delay for the submit button:



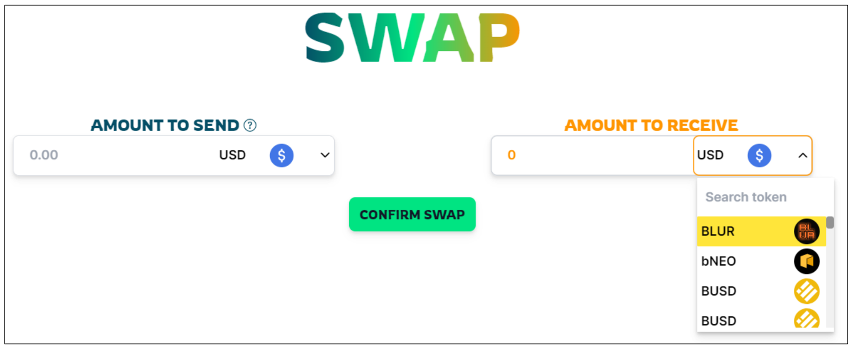


Layout Responsive:

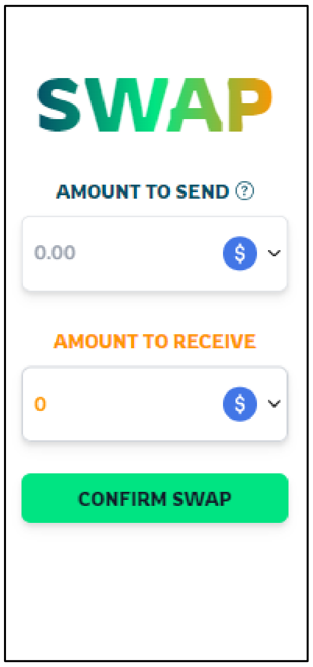
Desktop Monitor, Laptop:

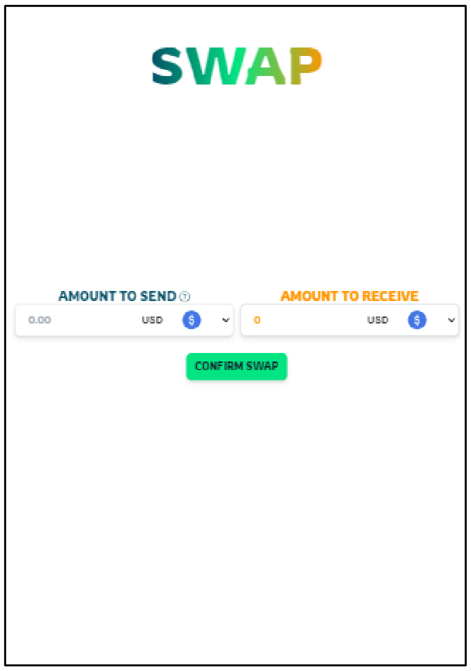


With devices Desktop Monitor, Laptop I setting Hover:

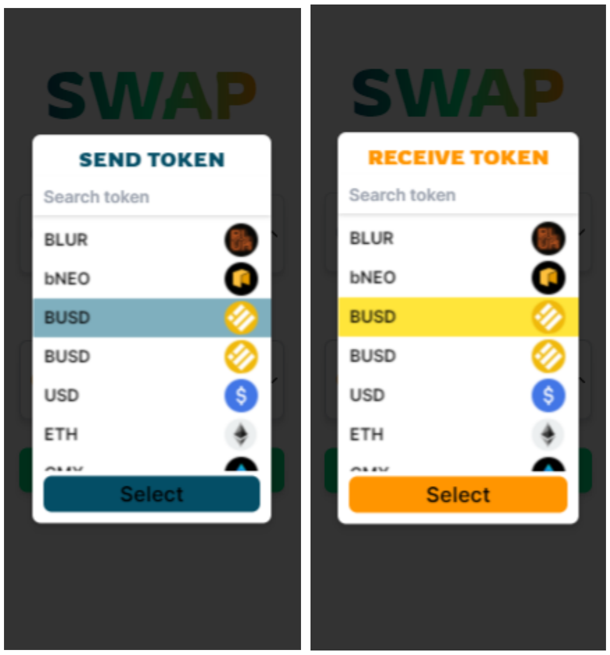


Mobile, Tablet:



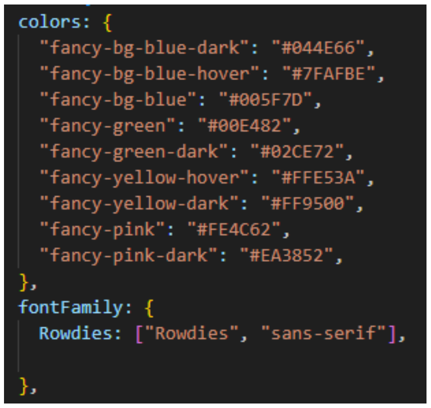


With devices Mobile don’t have action hover so I design Select button.



2. CONFIGURE PROJECT

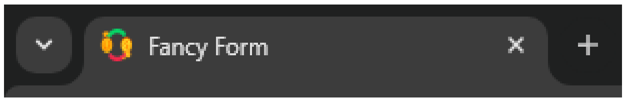
Configuration in Tailwind:



```
colors: {
  "fancy-bg-blue-dark": "#044E66",
  "fancy-bg-blue-hover": "#7FAFBE",
  "fancy-bg-blue": "#005F7D",
  "fancy-green": "#00E482",
  "fancy-green-dark": "#02CE72",
  "fancy-yellow-hover": "#FFE53A",
  "fancy-yellow-dark": "#FF9500",
  "fancy-pink": "#FE4C62",
  "fancy-pink-dark": "#EA3852",
},
fontFamily: {
  Rowdies: ["Rowdies", "sans-serif"],

},
```

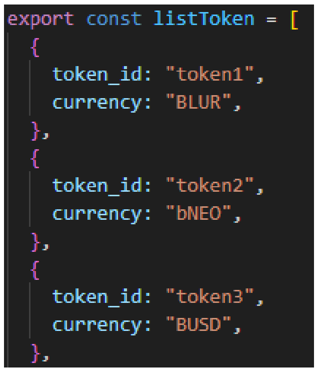
Configuration favicon:



Mock data and configuration data type.

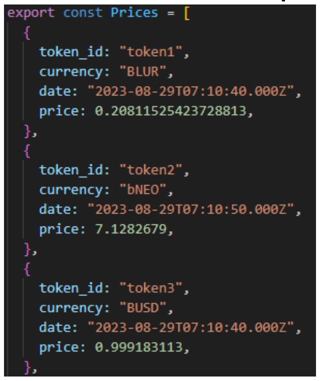
I split data to listToken and Prices because when dropdown listToken to select, we don't need to call API to get price.

- listToken data is a list of tokens that users can exchange



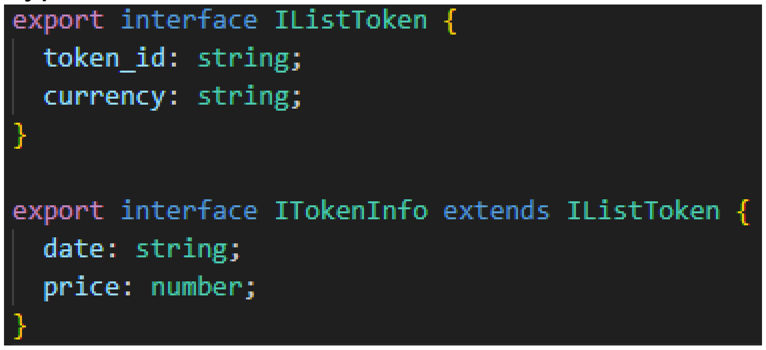
```
export const listToken = [
  {
    token_id: "token1",
    currency: "BLUR",
  },
  {
    token_id: "token2",
    currency: "bNEO",
  },
  {
    token_id: "token3",
    currency: "BUSD",
  },
```

- Prices data is the price of the token when calling the API



```
export const Prices = [
  {
    token_id: "token1",
    currency: "BLUR",
    date: "2023-08-29T07:10:40.000Z",
    price: 0.20811525423728813,
  },
  {
    token_id: "token2",
    currency: "bNEO",
    date: "2023-08-29T07:10:50.000Z",
    price: 7.1282679,
  },
  {
    token_id: "token3",
    currency: "BUSD",
    date: "2023-08-29T07:10:40.000Z",
    price: 0.999183113,
  },
```

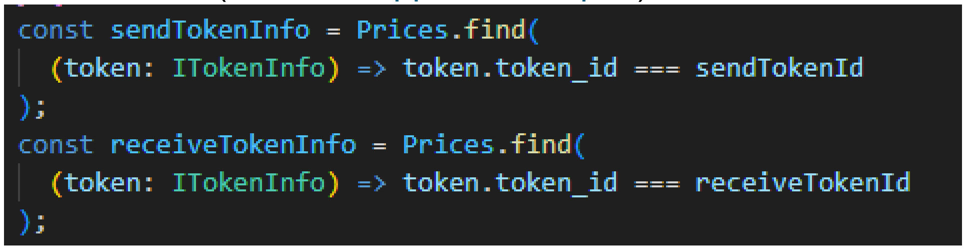
- Type of data



```
export interface IListToken {
  token_id: string;
  currency: string;
}

export interface ITokenInfo extends IListToken {
  date: string;
  price: number;
}
```

- Fake call API (Path: src\app\utils\Swap.ts)



```
const sendTokenInfo = Prices.find(
  (token: ITokenInfo) => token.token_id === sendTokenId
);
const receiveTokenInfo = Prices.find(
  (token: ITokenInfo) => token.token_id === receiveTokenId
);
```