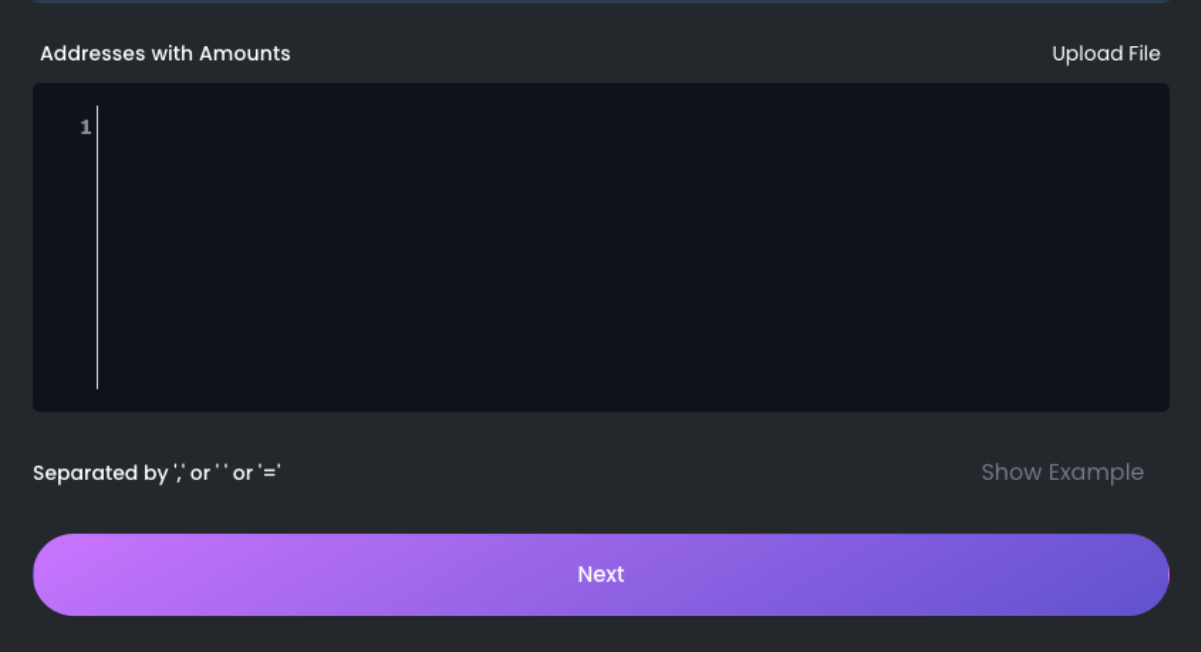


DZap React JS Task

Create a component called Disperse

Empty UI should look like this

The image shows a dark-themed web interface for a component named 'Disperse'. At the top left, the text 'Addresses with Amounts' is displayed. At the top right, there is a link labeled 'Upload File'. Below these, a large dark rectangular area serves as an input field. On the left side of this input field, a vertical line is present, with the number '1' at the top, indicating line numbers for pasted data. Below the input field, the text 'Separated by ";" or " " or "="' is shown on the left, and a link 'Show Example' is on the right. At the bottom center, there is a prominent purple rounded button labeled 'Next'.

Please make sure that your UI matches with the above UI, the most important thing is that the above input box should have line numbers like 1 given in the above example and increase once the user pastes more input data.

The user can enter the address(42 chars long starting with 0x) with the amount. The address and amount are separated by the delimiter of space (' ') or equals(=) or comma(,).

Disperse should have the following functions:

onSubmit() -> It will be called at the click of a button `Next` in the UI(as shown above). This function will validate the user input(can be n number of inputs) & throw an error in the following cases.

Addresses with Amounts

Upload File

1 0x2CB99F193549681e06C6770dDD5543812B4FaFE=1d

2 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50

3 0xEb0D38c92deB969b689acA94D962A07515CC5204=2

4 0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10

5 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13

Separated by ',' or '' or '='

Show Example

⚠ Line 1 invalid Ethereum address and wrong amount

Next

In this case the address length is not 42 at line 1.

Addresses with Amounts

Upload File

1 x2CB99F193549681e06C6770dDD5543812B4FaFE8=1

2 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50

3 0xEb0D38c92deB969b689acA94D962A07515CC5204=2

4 0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10

5 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13

Separated by ',' or '' or '='

Show Example

⚠ Line 1 invalid Ethereum address

Next

In the case, the address is not starting with 0x

Addresses with Amounts

Upload File

1 0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1d

2 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50

3 0xEb0D38c92deB969b689acA94D962A07515CC5204=2d

4 0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10

5 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13

Separated by ',' or '' or '='

Show Example

❗ Line 1 wrong amount
Line 3 wrong amount

Next

In case the amount is wrong like on line no 1 & 3 then it should give error as shown above.

Addresses with Amounts

Upload File

1 x2CB99F193549681e06C6770dDD5543812B4FaFE8=1

2 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50d

3 0xEb0D38c92deB969b689acA94D962A07515CC5204=2

4 0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10d

5 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13

Separated by ',' or '' or '='

Show Example

❗ Line 1 invalid Ethereum address
Line 2 wrong amount
Line 4 wrong amount

Next

In this case address at line 1 is wrong and the amount at lines 2 & 4 is invalid.

Addresses with Amounts
Upload File

```

1 | 0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1
2 | 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50
3 | 0xEb0D38c92deB969b689acA94D962A07515CC5204=2
4 | 0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10
5 | 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13
6 | 0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1
7 | 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50
8 | 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13
9 | 0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1

```

Separated by ',' or '' or '='
Show Example

Duplicated
Keep the first one | Combine Balance

❗ 0x2CB99F193549681e06C6770dDD5543812B4FaFE8 duplicate in Line : 1, 6, 9
0x8B3392483BA26D65E331dB86D4F430E9B3814E5e duplicate in Line : 2, 7
0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB duplicate in Line : 5, 8

Next

In this case there are duplicate addresses an error like above should be shown. And give the following option to the user.

1.) Keep the first one - Only the first of the duplicate addresses will be kept, so in this case lines 1 to 5 will be kept and 6-9(duplicates) will be removed.

2.) Combine balance - In this case same thing will happen, lines 1 to 5 will be kept but the the balances of duplicates will be combined, like below.

Addresses with Amounts
Upload File

```

1 | 0x2CB99F193549681e06C6770dDD5543812B4FaFE8=64
2 | 0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 52
3 | 0xEb0D38c92deB969b689acA94D962A07515CC5204=2
4 | 0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10
5 | 0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,11

```

Separated by ',' or '' or '='
Show Example

Next

Sample data to test your code

```
0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1
0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50
0xEb0D38c92deB969b689acA94D962A07515CC5204=2
0xF4aDE8368DDd835B70b625CF7E3E1Bc5791D18C1=10
0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13
0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1
0x8B3392483BA26D65E331dB86D4F430E9B3814E5e 50
0x09ae5A64465c18718a46b3aD946270BD3E5e6aaB,13
0x2CB99F193549681e06C6770dDD5543812B4FaFE8=1
```

The above input data uses space, equals and commas as delimiters.

Points to note

Good to have in code:

- 1.) TypeScript
- 2.) Tailwind CSS

Must have

- 1.) Match the UI as the screenshots above, especially the line numbers in the text box.
- 2.) Clean and well-structured production level code.

Showcase your skills and impress us.