# Abstract

A currency converter app that converts from one currency to another currency based on the latest updates over 180 countries, fetches the live data from the Fixer API. It even gives with 4 decimal precision and gives accurate predictions, user must enter the amount he/she wants to get converted to the desired currency then it calculates and gives the results with the floating-point precision.

## Functionalities:

- Handles corner cases **:**
  - User not entering any input
  - User entering a negative value
- Predicts the live fetched data
- Detailed precision up to 4 decimal places
- You can convert from one currency any other currency in the world

## Web Technologies used:

1. HTML
2. CSS
   a. flexbox
3. JS
   a. API

# CODE:

## currency_converter.html

```html
<!--Tilakavati Adhireddy-->
<!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">
    <title>Currency Converter</title>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/axios/0.26.1/axios.js" ></script>
    <script src="request.js"></script>
    <link rel="stylesheet" href="request.css">
</head>
<body>
    <h1 id="heading"> Currency Converter </h1>
    <div class="flex-container">
    <p style="font-family:Verdana, Geneva, Tahoma, sans-serif;color:#0f4c81;" id="am">Enter
the amount</p>
    <input type="number" id="amount" value="0" onchange="am()" >

    <select name="from_cur" id="from_curr" onchange="from()">
        <option value="AED">AED Emirati Dirham </option>
        <option value="AFN">AFN Afghan Afghani</option>
        <option value="ALL">ALL Albanian Lek</option>
        <option value="AMD">AMD Armenian Dram</option>
        <option value="ANG">ANG Netherlands Antillean Guilder</option>
        <option value="AOA">AOA Angolan Kwanza</option>
        <option value="ARS">ARS Argentine Peso</option>
        <option value="AUD">AUD Australian Dollar</option>
        <option value="AWG">AWG Aruban Florin</option>
        <option value="AZN">AZN Azerbaijani Manat</option>
        <option value="BAM">BAM Bosnian Convertible Marka</option>
        <option value="BBD">BBD Barbadian Dollar</option>
        <option value="BDT">BDT Bangladeshi Taka</option>
        <option value="BGN">BGN Bulgarian Lev</option>
        <option value="BHD">BHD Baharaini Dinar</option>
        <option value="BIF">BIF Burundian Franc</option>
        <option value="BMD">BMD Bermudian Dollar</option>
        <option value="BND">BND Brunei dollar</option>
        <option value="BOB">BOB Bolivian Boliviano</option>
        <option value="BRL">BRL Brazilian Real</option>
        <option value="BSD">BSD Bahamian Dollar</option>
        <option value="BTC">BTC Bitcoin</option>
        <option value="BTN">BTN Bhutanese Ngultrum</option>
```

```html
<option value="BWP">BWP Botswana Pula</option>
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<option value="EUR">EUR Euro</option>
<option value="FJD">FJD Fijian Dollar</option>
<option value="FKP">FKP Falkland Islands Pound</option>
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<option value="PKR">PKR Pakistan Rupee</option>
<option value="PLN">PLN Polish zloty</option>
<option value="PYG">PYG Paraguayan Guaraní</option>
```

```
<option value="QAR">QAR Qatari Rial</option>
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<option value="ZWL">ZWL Zimbabwe Dollar</option>
</select>
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        <option value="ZWL">ZWL Zimbabwe Dollar</option>
      </select>
       <button type="submit" id="but" onclick="clicked()" >convert</button>
       <p id="res"></p>
      </div>
  </body>
</html>
```

## currency_converter.css

```css
body{
    background-color:#FBEAEB;
}
#am{
    position:relative;
    top:-10px;
    right:370px;
}

#heading{
    background-color:#0f4c81;
    height:90px;
    color:#FBEAEB;
    margin:auto;
```

```css
    padding:3px 0;
    display: flex;
 justify-content: center;
 align-items: center;
}
#amount{
    height:46px;
    width: 190px;
    /* border: 2px; */
    border-radius: 4px;
    border-width:1px;
    color:rgb(36, 123, 204);
    margin:10px;
}

#from_curr{
    height:50px;
    width: 230px;
    /* border: 2px; */
    border-radius: 5px;
    color:black;
    font-size:15px;
    margin:10px;


}
#to_curr{
    height:50px;
    width: 230px;
    /* border: 2px; */
    border-radius: 5px;
    color:black;
    font-size:15px;
    margin:10px;
}
#but{
    height:50px;
    width: 190px;
    border-radius: 5px;
    border-width:1px;
    background-color:#bd6b73;
    font-family:'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
    font-weight:500;
    font-size: 20px;
    box-shadow:2px 2px #450920;
}
#res{
    font-family:Verdana, Geneva, Tahoma, sans-serif;
    color:#0f4c81;
```

```css
}
.flex-container{
    text-align:center;
    position:relative;
    top:100px;
}
```

## currency_converter.js

```javascript
var amount;
var from_currency="AED";
var to_currency="AED";
var exit=false;
function am(){
    amount=parseInt(document.getElementById("amount").value);
    return amount;

}
function from(){
    from_currency=document.getElementById("from_curr").value;
    return from_currency;
}
function to(){
    to_currency=document.getElementById("to_curr").value;
    return to_currency;
}

function clicked(){
    if(amount==undefined){
        alert("Enter the amount");
        exit=true;
    }
    if(amount<0){
        alert("Oops ! Amount can't be negative");
        exit=true;
    }


    else{
        if(exit!=true){
        axios.get('http://data.fixer.io/api/'+'latest'+'?access_key='+
'048c8745464f45db333593f45ca49f6c')
        .then(response=>{
        console.log(response.data.rates);
            var f=response.data.rates[from_currency];
            var t=response.data.rates[to_currency];
            var fin_amount=(amount*(t/f)).toFixed(4);
```

```
            document.getElementById("res").innerHTML=('1 '+from_currency+' = '+
(t/f).toFixed(4)+' '+to_currency+'<br>'+
            '1 '+to_currency+' = '+ (f/t).toFixed(4)+' '+from_currency+'<br>'
            +'<br><b>'+amount+' '+from_currency+'  =  '+fin_amount+'  '+to_currency+' </b>');
        },err=>{
            console.log(err);
        });
    }
    }
}
```

**OUTPUT SCREENSHOTS :**

## Screen 1

This page says

Oops ! Amount can't be negative

OK

Enter the amount

-30

AMD Armenian Dram

BAM Bosnian Convertible Mark

convert

## Screen 2

# Currency Converter

Enter the amount

40

USD United States Dollar

INR Indian rupee

convert

1 USD = 76.3316 INR
1 INR = 0.0131 USD

**40 USD = 3053.2633 INR**

# Currency Converter

Enter the amount

| 50 | EUR Euro ▾ | KWD Kuwaiti Dinar ▾ | convert |

1 EUR = 0.3302 KWD
1 KWD = 3.0288 EUR

**50 EUR = 16.5080 KWD**