

Project 2: Interim Submission - Client Side Programming 50 Points Possible

11/10/2024

Attempt 1



In Progress

NEXT UP: Submit Assignment

Add Comment

Unlimited Attempts Allowed



10/25/2024 to 11/10/2024

Details

Create the following set of front-end web applications:

The interim project submission expects the first program (Rock, Paper, Scissors) or last program (Calculator) to be completed. You should also have made progress on one other program.

Note: Some of you already put a great deal of effort into styling these programs. If your overall product is as complete as the specified app screenshots, that is acceptable. Use the screenshots as reference material and for ideas, you need not copy it exactly.


FontAwesome  (<https://fontawesome.com/search?q=hand&o=r>) provides prebuilt icons. I'd recommend using these images in your project. They're easy to include and are helpful with styling elements like hands for RPS, etc. **Get Started | Font Awesome Docs**  (<https://fontawesome.com/docs/web/setup/get-started>)

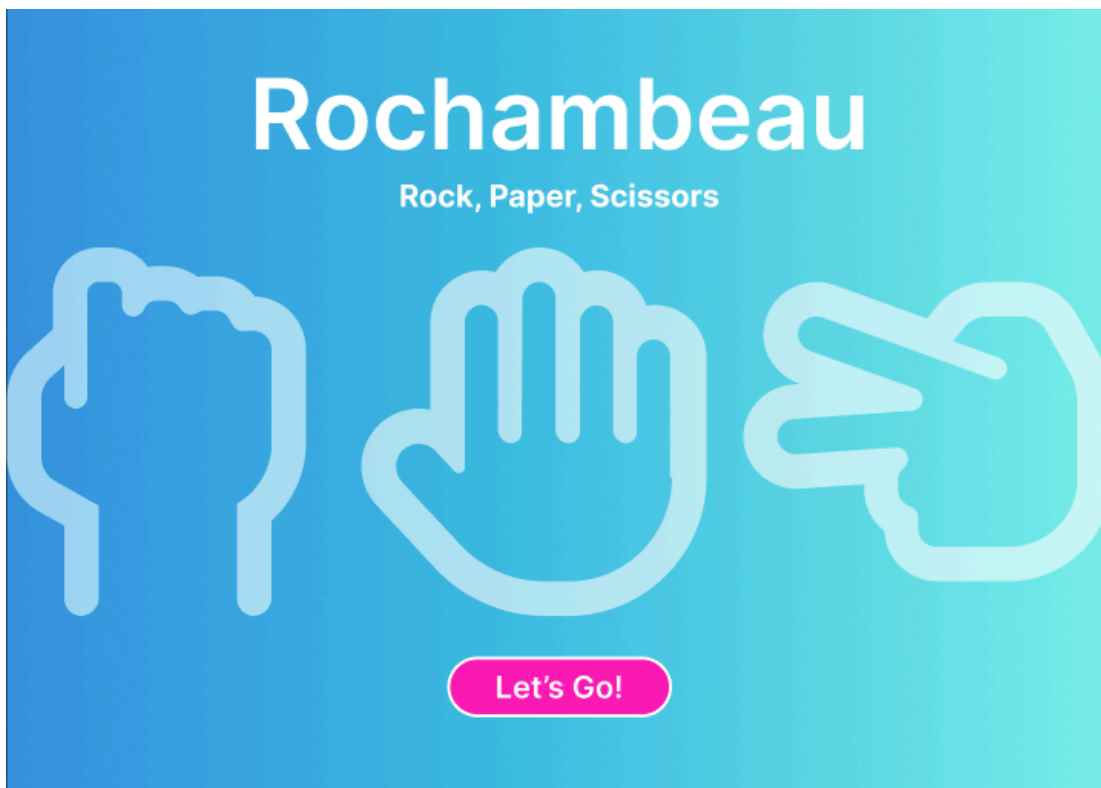
1. Rock, Paper, Scissors

Using much of what you built in Project 1, you will create a single page Rock, Paper, Scissors Game.


Requirements:

- The app has a starting view. The game doesn't start until a user clicks a button to start play.
- There is a hover state on the choices to let a user know to click.
- There is a click state on the choices to select a move.
- A user can unclick and select another option.
- A user must click a button to play their hand.
- Once the hand is played, let the user know if they won, lost or it was a draw.
- Once the hand is played, prompt the user to play again.
- **EXTRA CREDIT (1pt) (must do all parts for the full point):**
 - The program keeps score over multiple games.
 - The user has a limited amount of time to select a hand. There will be some presentation to the user to let them know time is running out. In the designs, the words "Rock...Paper...Scissors...Shoot!, appears on the screen a word at a time".
 - If a user doesn't make a choice, make one for them. Let them know you randomly selected on their behalf.


Design File: <https://www.figma.com/file/BPFsLRPQc88wi0c9ycEohO/Rock%2C-Paper%2C-Scissors?node-id=0%3A1>  (<https://www.figma.com/file/BPFsLRPQc88wi0c9ycEohO/Rock%2C-Paper%2C-Scissors?node-id=0%3A1>)



2. Currency Converter

Using much of what you created in Project 1, create a clone of [XE Currency Exchange](https://www.xe.com/currencyconverter/)  (<https://www.xe.com/currencyconverter/>). This project will be extended into Project Three. Please create the html of the whole specified webpage, but you do not need to worry about the functionality for anything but the currency convertor. **Please refer to the simplified, stable screenshot below as opposed to the website at the link.**

Requirements

- Create a web page for the currency converter.
- The page must have a header, with the stipulated links in the design. These links do not have to work right now. They will in Project 3.
- A user must enter an amount. This must be formatted for them as currency.
- A user can select from a list of currencies in the "From" and "To" dropdowns.
- The dropdowns must display both the Currency Code and the friendly name of the currency.
- A switch button is available to switch the currently selected values in the "From" and "To" dropdowns.
- When a user clicks convert, the form container expands and the conversion is displayed.
- Once a user clicks convert, two displays display below the main form container.
 - Two tables are displayed with conversion values for common increments of currency.
- **EXTRA CREDIT:**
 - (1 pt) use the flags for a given currency to display next to the dropdown name options for From and To.
 - (1 pt) change the currency symbols for a given currency to display the related value of the currency in the To. Update the symbol when a "From" value is selected.
 - (4 pt) use the <https://www.exchangerate-api.com/>  (<https://www.exchangerate-api.com/>) API to get actual daily exchange rates.

```
Known exchange rates:
{
  "base": "USD",
  "date": "2022-09-24",
  "rates": {
    "AUD": 1.531863,
    "CAD": 1.36029,
    "CLP": 950.662057,
```

```

    "CNY": 7.128404,
    "EUR": 1.03203,
    "GBP": 0.920938,
    "INR": 81.255504,
    "JPY": 143.376504,
    "RUB": 57.875038,
    "ZAR": 17.92624
  }
}

```

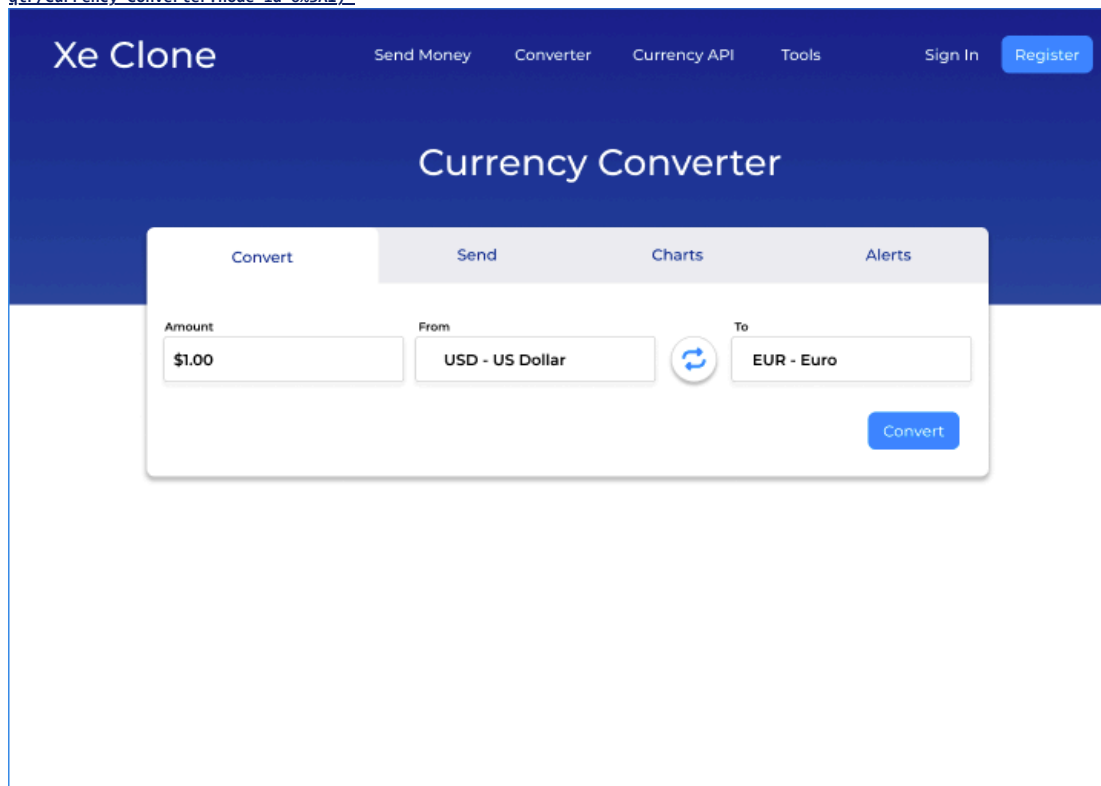
Known Symbols

```

{
  "symbols": {
    "AUD": "Australian Dollar",
    "CAD": "Canadian Dollar",
    "CLP": "Chilean Peso",
    "CNY": "Chinese Yuan",
    "EUR": "Euro",
    "GBP": "British Pound Sterling",
    "INR": "Indian Rupee",
    "JPY": "Japanese Yen",
    "RUB": "Russian Ruble",
    "USD": "United States Dollar",
    "ZAR": "South African Rand"
  }
}

```

Design File: <https://www.figma.com/file/9j8uQHgge4LeFWMBBjegtF/Currency-Converter?node-id=0%3A1> ⇄ <https://www.figma.com/file/9j8uQHgge4LeFWMBBjegtF/Currency-Converter?node-id=0%3A1>



Convert US Dollar to Euro

USD	EUR
1 USD	1.02667 EUR
5 USD	5.13337 EUR
10 USD	10.2667 EUR
25 USD	25.6669 EUR
50 USD	51.3337 EUR
100 USD	102.667 EUR
500 USD	513.337 EUR
1,000 USD	1,026.67 EUR
5,000 USD	5,133.37 EUR
10,000 USD	10,266.7 EUR

Convert Euro to US Dollar

EUR	USD
1 EUR	0.974019 USD
5 EUR	4.87009 USD
10 EUR	9.74019 USD
25 EUR	24.3505 USD
50 EUR	48.7009 USD
100 EUR	97.4019 USD
500 EUR	487.009 USD
1,000 EUR	974.019 USD
5,000 EUR	4,870.09 USD
10,000 EUR	9,740.19 USD

3. Calculator

Using much of what you built in Project 1, create a single page client-side calculator application.

Requirements:

- The calculator can do addition, subtraction, multiplication, division.
- Can handle decimals.
- Can toggle between negative and positive numbers.
- Can clear the current total.
- A scrollable history of calculations will display on the app. The format for the display is:

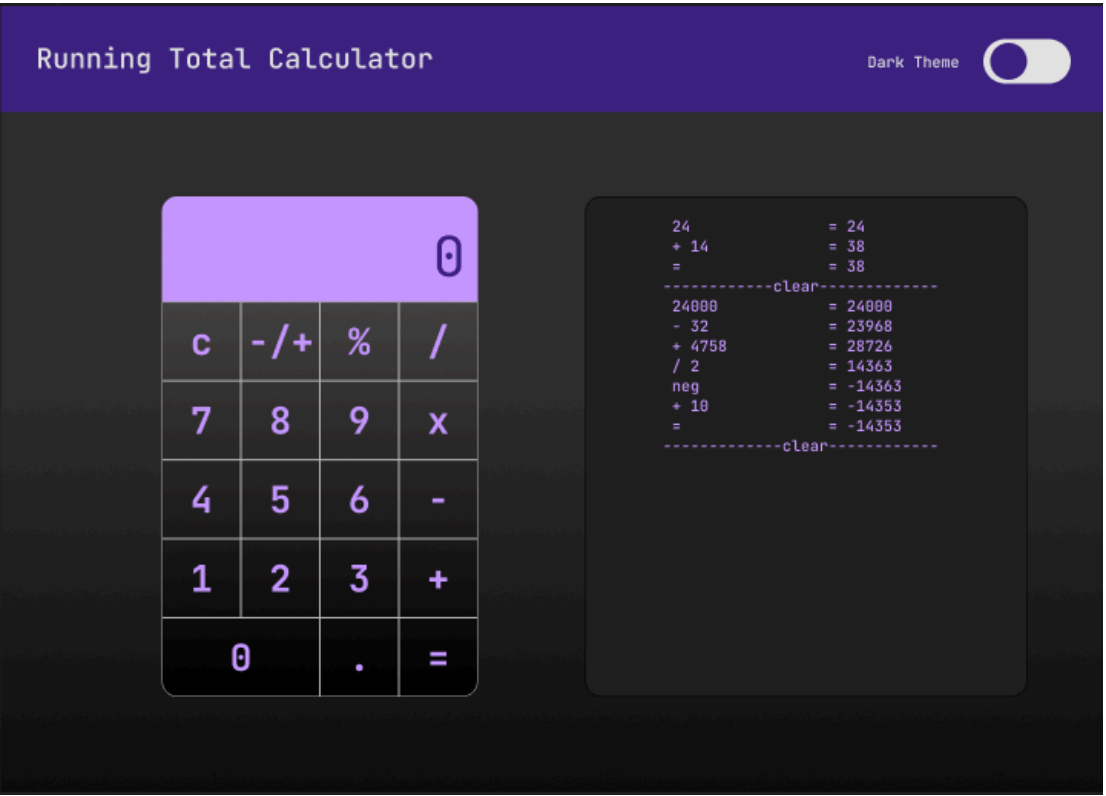
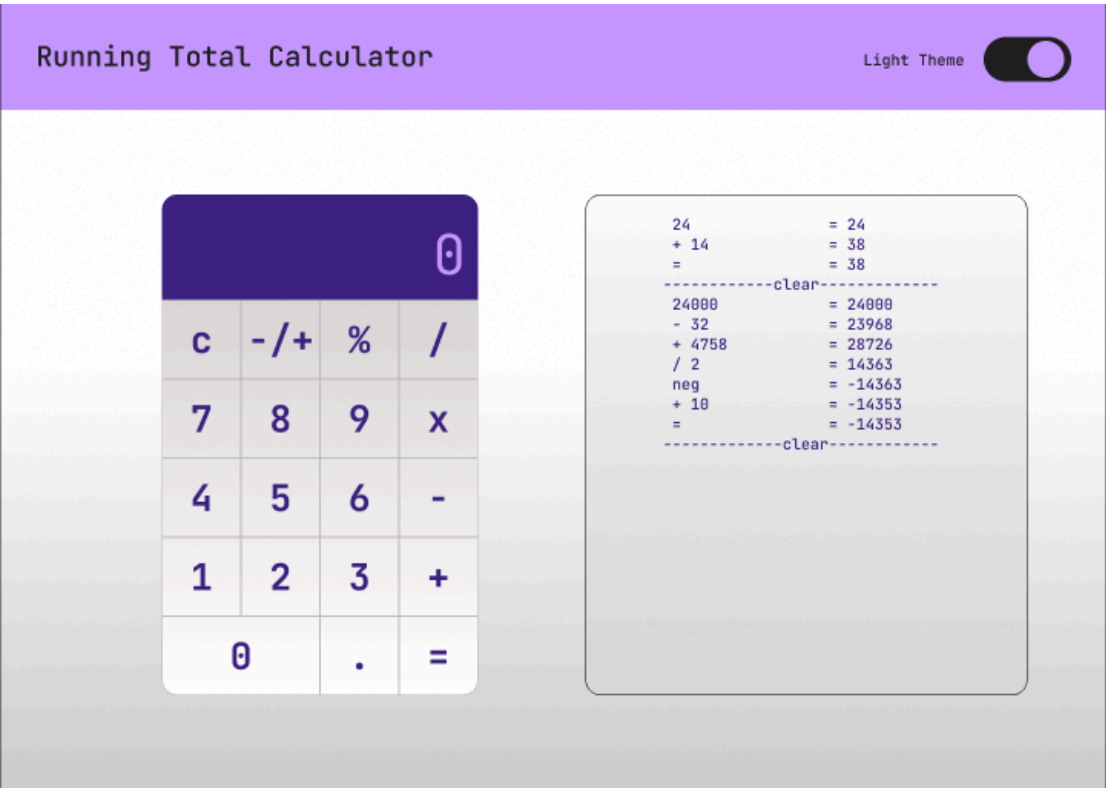
```

24      = 24
+ 14    = 38
=       = 38
-----clear-----

```

- **EXTRA CREDIT: (1pt)** The application can toggle between light and dark theme. (The actual colors are up to you, you can use what is in the Figma file or do your own thing.)

Design File: <https://www.figma.com/file/66PvpEEeMGWCh7W6WxHdEU/Calculator?node-id=0%3A1> 
(<https://www.figma.com/file/66PvpEEeMGWCh7W6WxHdEU/Calculator?node-id=0%3A1>)



View Rubric

Some Rubric (1)

Criteria	Ratings		Pts
All Requirements of Program met	30 to >0 pts Full Marks	0 pts No Marks	/ 30 pts

Some Rubric (1)

Criteria	Ratings		Pts
Javascript Usage	10 to >0 pts Full Marks	0 pts No Marks	/ 10 pts
Progress made towards second program	10 to >0 pts Full Marks	0 pts No Marks	/ 10 pts

Total Points: 0

Choose a submission type


Web URL


Upload

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(<https://wcc.instructure.com/courses/2504596/modules/items/85803282>)

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