<u>Proposed plan to build our Currency Conversion Website:</u>

We are planning to build a website for currency conversion using HTML, JavaScript, and CSS. We will make separate pages for JavaScript and CSS. The design needs to be responsive among desktop and mobile interfaces.

In the top part of the html page, we will build a nav bar with buttons including Home, News, Contact Us, FAQ, Finance Education, and About Us. We will keep the top nav bar fixed so that it will stay on top of the page when we scroll down the page.

Currencies will be the Canadian dollar CAD, U.S. Dollar USD, British Pound GBP, CNH, Japanese Yen JPY, EURO EUR, Indian Rupee INR, Honduran Lempira HNL, Bangladeshi Taka BDT, Australian Dollar AUD, Swiss Franc CHF, Brazilian Real BRL, Philippine Peso PHP, Omani Rial OMR, South African Rand ZAR, Qatari Rial QAR, Mexican Peso Mxn, United Arab Emirates Dirham AED, South Korean Won KRW, Saudi Riyal SAR, etc. We are going to use 2 drop-down boxes to select 2 options to convert one currency to another.

Currency converter will get real-time data from Google Finance or some other finance websites with free API.

On the right side of the page we will create a sidebar for News items regarding important financial news which will be collected from Yahoo Finance News, Google Finance News, CNN Money, MSN Money, BBC, etc. Need to reformate the news items based on our destination webpage's look. We will only use 2 top news items from each source for our right sidebar. The rest of the news items will be included in the top nav bar link.

In the middle of the part, we will make a box and include the top 5 currencies and their current conversion rates again Canadian dollars CAD. For each of those 5 currencies, we will include the last 3 months of conversion rate as a graph under each currency.

In the bottom part of the page, we will include a page footer. On the left side of the footer, we will include some links to YouTube videos regarding financial advice. On the right side of the footer, we will include our address & contact no & email address as 123 Main St, Ottawa, ON. K1J 2WD. Our contact no is +1-613-123-5678. Info@ottawacurrency.com

HTML Structure:

1. Top Navbar:

   - Add navigation links: Home, News, Contact Us, FAQ, Finance Education, About Us.

   - Make the top navbar fixed.

2. Currency Converter Section:

   - Two dropdowns for selecting currencies to convert.

   - Real-time currency conversion rates displayed.

   - Charts showing the last 3/6 months of conversion rate under each currency.

3. Right Sidebar for Financial News:

  - Display the top 2 news items from various sources.

  - Links to more news sections in the top navbar.

4. Middle Section:

  - Display the top 5 currencies and their current conversion rates.

  - Charts showing the last 3/6 months of conversion rate trend under each currency.

5. Page Footer:

  - Left side: Links to YouTube videos for financial advice.

  - Right side: Contact information with address, phone number, and email. Our address is 123 Main St, Ottawa, ON. K1J 2WD. Our contact no is +1-613-123-5678. Email address as Info@ottawacurrency.com
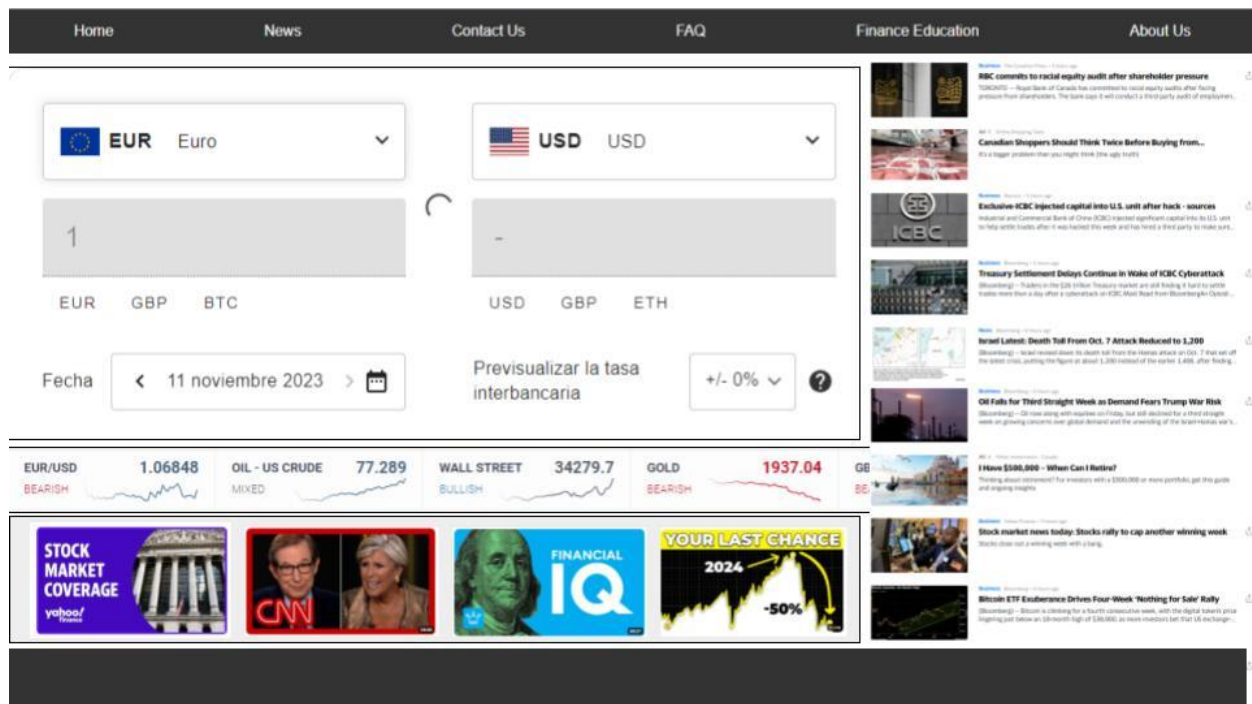

Figure 1: Proposed Website's Interface

JavaScript:

1. Fetch real-time currency data from Google Finance or some other places with free API.

2. Display the currency conversion rates.

3. Fetch financial news from multiple sources (Yahoo Finance, Google Finance, CNN Money, MSN Money, BBC).

4. Display the top 2 news items in the right sidebar.

5. Implement charts to show the last 3/6 months of conversion rate for each currency.

CSS:

1. Style the top navbar, buttons, and navigation links.

2. Style the currency converter section, dropdowns, and conversion rate displays.

3. Style the right sidebar for financial news.

4. Style the middle section, currency listings, and charts.

5. Style the page footer, links, and contact information.

6. Ensure the design is responsive for both desktop and mobile interfaces.

To implement real-time currency conversion and news, we'll need to use APIs provided by financial data sources like Google Finance, Yahoo Finance, etc. You'll also need to implement charts for currency conversion history and add more styles and content to complete the website.

Team Members & Proposed Role:
1. Partha Sinha: Team Leader & Front-end Designer
2. Ernesto Davila: Front-end Developer
3. Zhengyuan Liu (William): User Experience Developer