

Description of Our Project

Objective:

Build a Website for a Currency Converter Agency

Name:

Algonquin College (AC) Currency Converter is the name of our website.

Tools:

We are using HTML, JavaScript, and CSS for this website. We will also use free APIs to fetch the required data from different sources and present it on our webpage. Our design will be responsive among desktop and mobile interfaces.

Description of Our Website:

In the top part of the landing page, we set a heading with the name of our agency, Algonquin College (logo of our company) Currency Converter.

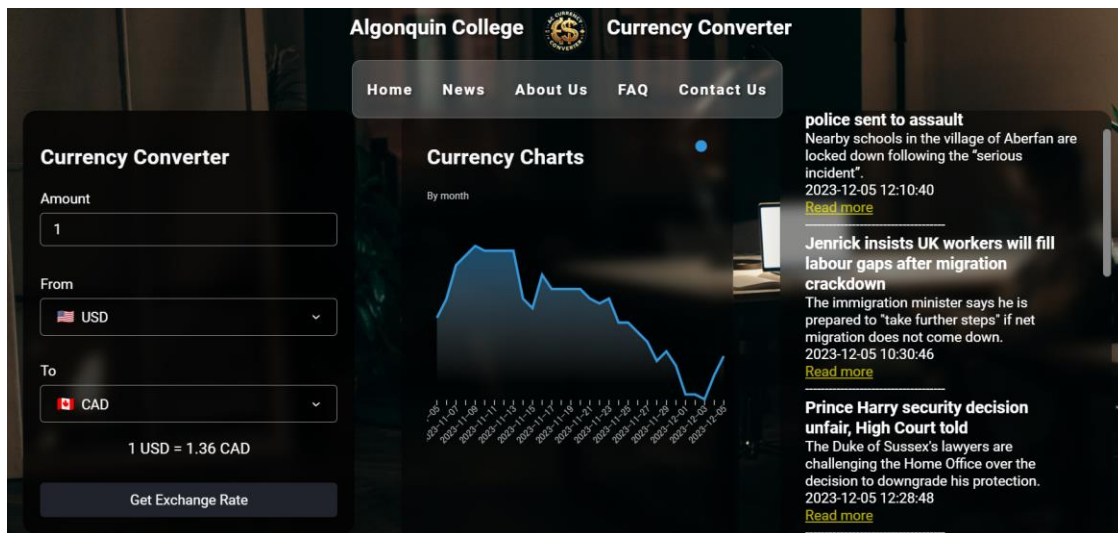


Figure 1: Home Page

Below that heading, we set up a nav bar with buttons including Home, News, About Us, FAQ, and Contact Us. We fixed the top nav bar so that it will stay on top of the page when we scroll down. The top nav bar also collapses when we scroll the page into the company logo. To return to the page, you can click on the logo, it will open the nav bar & you can click any page you like.

The Home page will have four parts- Currency Converter Section, Currency Chart Section, Business News Feed, and Videos related to financial information.

In the currency converter section, you can get a real-time exchange rate to convert a wide range of currencies from one Currency to another. We are getting those real-time rates using API.

The updated exchange rate will display once you select two currencies and click the 'Get exchange rate' button. This click will also update the graph in the middle of the page with updated historical data for that Currency. You can even hover over the graph, and it will display the rates corresponding to the date.

On the right-side home page, we have a section for business news that we connected using an RSS feed. This news section is related to the 3rd party website. Clicking the read more link will take you to the corresponding news link.

We have added the currency options for all of the major currencies. Altogether, we put 159 types of currencies on our website for conversion.

We have another major section for business news related to the financial and business world, and in some cases, it will help our clients understand what is impacting the change in exchange rates. Once you click the read more link, it will take you to the 3rd party website for further information.

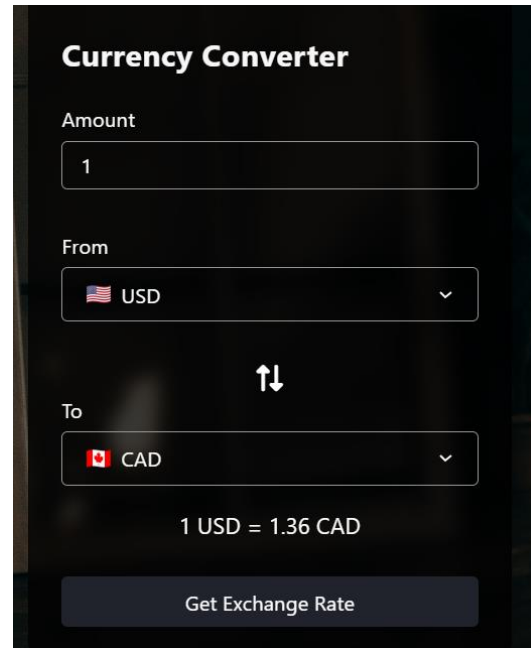
The image shows a 'Currency Converter' interface. At the top, it says 'Currency Converter'. Below that is an 'Amount' input field with the number '1'. Underneath is a 'From' dropdown menu showing 'USD' with a US flag icon. In the center is a double-headed vertical arrow icon. Below that is a 'To' dropdown menu showing 'CAD' with a Canadian flag icon. The result '1 USD = 1.36 CAD' is displayed below the dropdowns. At the bottom is a button labeled 'Get Exchange Rate'.

Figure 2: Currency Converter

The image shows a 'News Section' interface. At the top, it says 'Algonquin College' on the left, a circular logo with a dollar sign and 'CURRENCY CONVERTER' in the center, and 'Currency Converter' on the right. Below this is a large blue button labeled 'Business News'. Underneath the button is a list of news items. The first item is 'EU agrees plan to enable member states to end all gas imports from Russia' with a timestamp '2023-12-08T16:31:52Z' and a 'Read more' link. The second item is 'UK watchdog to examine Microsoft's partnership with OpenAI' with a timestamp '2023-12-08T16:21:26Z' and a 'Read more' link.

Figure 3: News Section

We also added a part about ourselves- 3 developers who developed this website. We added a photograph, some descriptions, and previous experiences about ourselves. We said a slideshow on that page for viewers to slide and check about our information.

We added frequently asked questions regarding currency conversion business and our business. Our clients can understand what to expect when they do business with us.

On our website's last part, we added information on how to contact us and our office address. We showed our office address in the Google map using an API from Google Cloud. We also set up a form to submit information if someone wants to contact us. This form would show validation to check if the client entered all the required information. If not, the form will not be submitted, and ask the client to input all the required information.

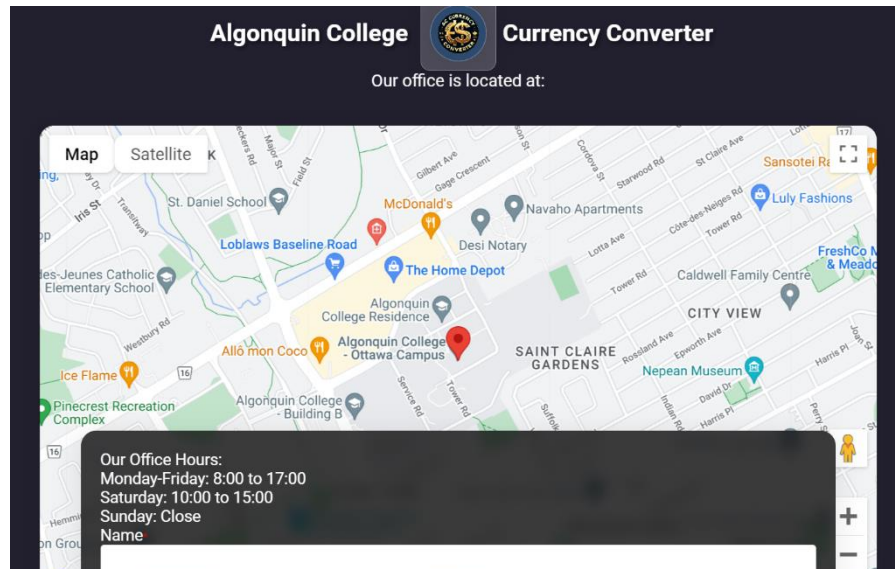


Figure 4: Our Address and Form to Contact Us

In the bottom part of the page, we included a page footer. On the left side of the footer, we had links to YouTube videos regarding financial information. On the right side of the footer, we added our address. Contact no. and email address.

HTML Structure:

1. Top Navbar:
 - a. Navigation links: Home, News, Contact Us, FAQ, About Us.
 - b. The top navbar is fixed.
2. Currency Converter Section:
 - a. Two dropdowns for selecting currencies to convert.
 - b. Real-time currency conversion rates are displayed.
 - c. Charts showing the last months of conversion rate between 2 currencies.
3. Right Sidebar for Financial News:
 - a. Display the top news items from 3rd party sources using RSS feed.
4. News Section:
5. About Us Section:
6. FAQ Section:
7. Contact Us Section:
8. Page Footer:
 - a. Left side: Links to YouTube videos for financial information.
 - b. Right side: Contact information with address, phone number, and email.

Below is the site Map for our website-

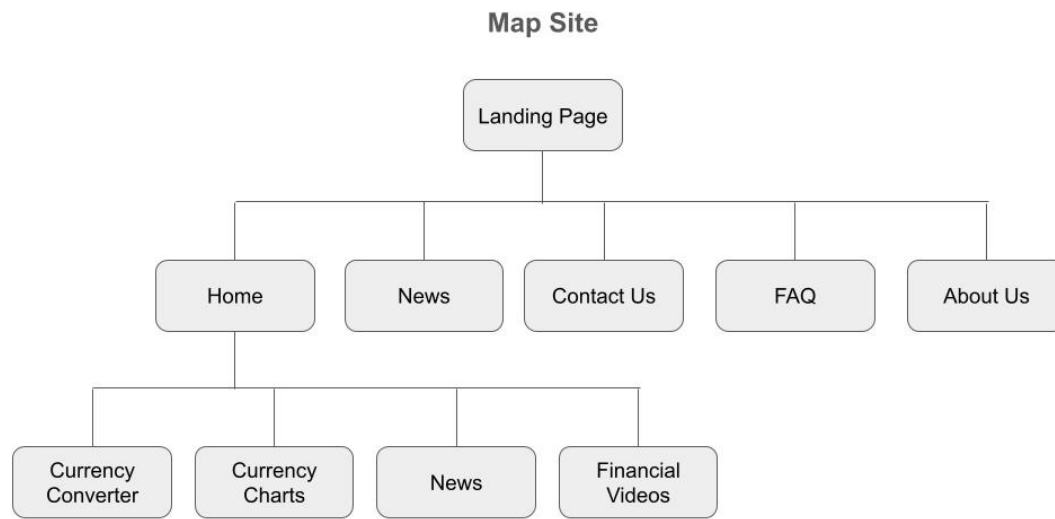


Figure 5: Map of Our Website

Team Members & Proposed Role:

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