Currency Convertor Extension

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Abstract

Browser Extensions are a necessity in these times as they help us surf the internet in a much

faster, safer and enjoyable way. Currency Convertor will help us in converting our selected

number into any currency with their real time conversion rates. It will read the value and with the

help of some API and JavaScript, it will give us the real time price of the currency we want. It is

a small browser-based extension which will save us lots of time and help us improving our

efficiency.

Keywords: Browser Extension, Currency Convertor, JavaScript, Money
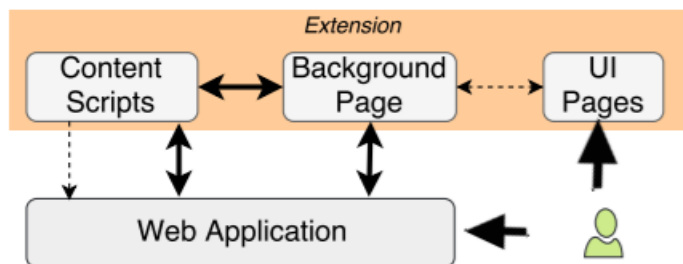
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Introduction

Browser extensions are small JavaScript programs which are a third-party software and are implemented by the user in web browsers like Google Chrome, Microsoft Edge, Mozilla Firefox and Opera. They improve the users experience by extending the functionality of the browser and tailoring it as per the users need and requirement. They do it with the help of APIs which are basically a gateway to access another application. API (Application Program Interface) is a software which can be used by other software to communicate within and sometimes it can do it with hardware's too. It is basically a bridge between software and devices.

Currency Convertor

In today's world where browsers eat the highest amount of RAM and time is very crucial to everyone, opening an additional tab to check some conversion rate of a currency is not the most optimal thing to do. There is where this extension comes in place which will help us in converting a currency by just selecting it with a double right click.
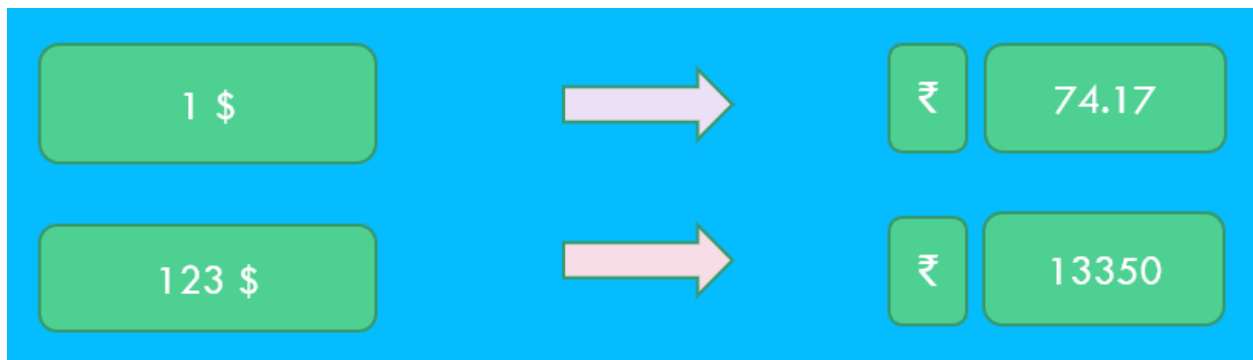
Working

An extension is generally made up of three parts that is the Background Page, UI Page and the Content Script. The main part of the extension would be the background page as it has complete access over all the capabilities of the extension. The users will use the extension by interacting with the UI Page, for enabling or disabling it as per their need or even customize it in

their own way. UI Page will also have access to the capabilities that the developers desire the users to have. Content Scripts are injected directly into the web browser by the extension to run along with the web application. They can access Chrome APIs and talk with other softwares by sending messages and are the working mechanism of the browser extension.
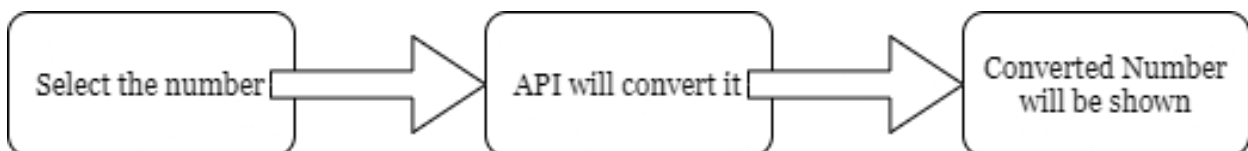
Working of Currency Convertor

It is made of simple Web development Languages (HTML, CSS and JavaScript) along with some APIs.

Once the user enables it in their browser, it will start working alongside and whenever the user selects some numbers with the currency symbol, it will pop up and will tell you the value of that number in the currency you want it to be converted to.

The selected content would be picked up by the Content Script and then the API connected would take it and convert it to the required currency before displaying it.

Benefits

1. It will help save us RAM and improve the efficiency of the PC.

2. It will save us time by not having to change tabs for such a small task.

3. It will help us visit foreign sites easily making us experience the big wide internet in a much better way.

4. It will help us in Crypto Currency Trading and the Currency Exchange Market.

References

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