

Tracking User's Currency From Ip Address For E-Commerce Websites

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Abstract

User's currency details such as currency code, symbol and exchange rate, location details and time zone from their IP address, can calculate and show price of a product in their own currency rate and can fix a price in US Dollar. Tracking user's location, latitude, longitude, city, region, country details. Analyzing the website viewers and improve the product or services. Allows the administrator to monitor and filter IP addresses accessing the website or can show personalised data for each user by their location or time zone.

Keywords: Currency, Track, Website

1. INTRODUCTION

In this paper a single website page is used to show the user's currency details for purchasing thus increase the sales rate. And also, a website can show the user's own time zone, from the server, even if the user's computer set to wrong time, the website can show the correct time from the server.

These are done by simply getting the user's IP address and converting it to location, time zone and currency details. An IP address is the network id thus it's easy to identify the country and location of the user's computer by their IP address. Using the location, user can identify the currency details and time zone. Thus, user experience in a website increases and sales rate will be very high.

2. PROPOSED SYSTEM

A website can display the user's local currency value in same page. i.e., no need for separate pages. The location or currency rate can be obtained by any way. But the displaying of the currency details can be in a single page. So, a user can login and see the price values in their own currency, i.e. local currency. An American user can see USD in a page and also an Indian user can see INR in the same page without redirecting him to a separate page or subdomain. This is done by the following ways.

1. Get user's IP address.
2. Obtain user's location, currency and time zone from IP address.
3. Get actual currency values in MySQL database, JSON or direct values in PHP.
4. Store the currency values in PHP variables.

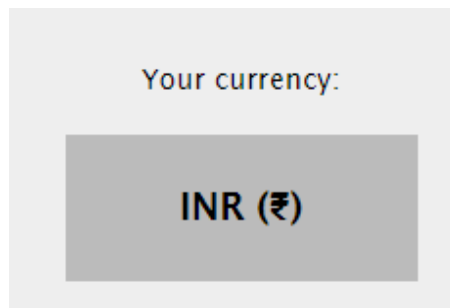
5. Calculate local currency value by actual currency multiplies currency rate which we got from IP address and store it in PHP variable.
6. Print the local currency value in website from the stored variable.

The real IP address is found by checking whether it is shared internet or IP is passed from proxies using `HTTP_CLIENT_IP, HTTP_X_FORWARDED_FOR, REMOTE_ADDR` for obtaining the real IP address.

3. MODULES

3.1. User Currency

This page is used to identify currency using IP address. If a user in India visits the page, it will show INR (₹) and if a user in America visits the page, it will show USD (\$).



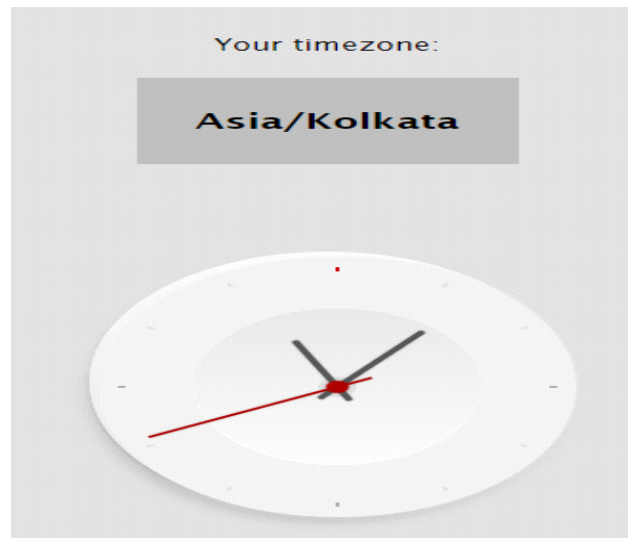
3.2. Currency Conversion

The currency converter to know our own currency value for a particular US Dollar. Here, all currency rates are calculated from USD and vice versa. Enter an amount in USD (US Dollar). The amount will be converted to our own currency value



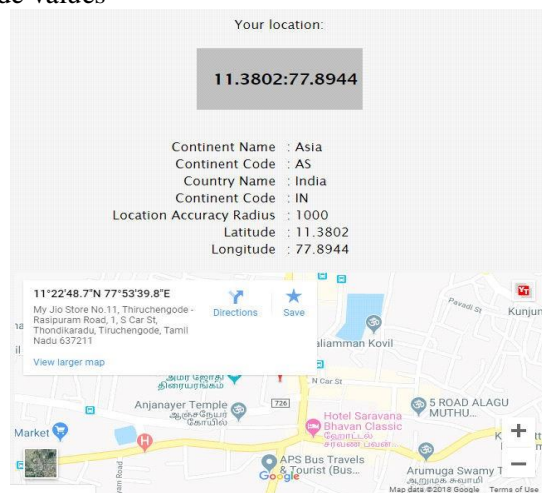
3.3. User Timezone

The time zone of the user will be displayed i.e., if a user in Tamil Nadu visits this page, the time zone will be Asia/Kolkata. If a user in Europe the time zone will be shown as Europe/London. Calculate or show time in user's computer, it may vary if the user sets the time wrongly in their system. The page has a clock which shows the time of the user by using the given time zone value. The clock value is obtained from the server and running from JavaScript. i.e., the time value is obtained from server in PHP while page loading and is saved in JavaScript as a variable.



3.4. User Location

The location of the user will be obtained by using the IP address. Thus, the location will show the location of the user's Internet Service Provider (ISP).we may know the country or region details easily, but city details may be slightly varied as nearby ISP centre.We use location details for identifying the country or state of the user to provide customized offers or plans in our web app.In the location page of our website, the latitude and longitude details are shown in the box. Continent name, continent code, country name, country code, location accuracy radius, latitude and longitude values are shown. And a google map is shown by using the latitude and longitude values



4. CONCLUSION

List and number The ecommerce website and many products and service pages can use this concept so that user can directly view the local currency values in the same page and need not to redirect to another separate pages. Thus, improves the overall sales and user interactivity. The Customers can know the prices in their own known currency rates. The maintenance is also very easy and many advantages are explained already. So this paper will be very useful all commercial websites and service on line and need to expand their brand to the worldwide.

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