Project Requirement

CMSC 495 6380 Current Trends and Projects in Computer Science

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Group 5

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# Revision history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Revision number** |  | **Date** | **Description** | **Name** |
|  | 1 | Aug 26, 2021 | reviewed project functional & nonfunctional requirements sections | Michael Schaffner |
| 2 |  | Sep 26, 2021 | Changed Should wording to shall | Michael Schaffner |
|  |  |  |  |  |
|  |  |  |  |  |

**Topic**

A application to convert one currency to another

**Functional Requirement**

|  |  |
| --- | --- |
| **Requirement #** | **Description** |
| 1 | This software shall convert one currency rate to another currency rate |
| 2 | The software shall be able to take an input from the user |
| 3 | The software shall have a drop down list to select inputted currency. All currencies will match support currencies |
| 4 | The software shall have a drop down list to select the conversion currency |
| 5 | The software shall have a button that, upon pressing it, will show the converted currency rate |
| 6 | The software shall get the current exchange rate from the internet |
| 7 | The software shall add a symbol of currency with the number |

|  |  |
| --- | --- |
| **Requirement #** | **Description** |
| **1** | **The software shall be fast** |
| **2** | **The software shall provide a user friendly interface** |

**Non-functional Requirement**

**Currencies that will be supported**

This list is from the ExchangeRate-API website listed all supported currencies.

**All Supported Currencies**

We[ExchangeRate-API] support all 160 commonly circulating world currencies listed below. These cover 99% of all UN recognized states and territories.

|  |  |  |
| --- | --- | --- |
| Currency Code | Currency Name | Country |
| AED | UAE Dirham | United Arab Emirates |
| AFN | Afghan Afghani | Afghanistan |
| ALL | Albanian Lek | Albania |
| AMD | Armenian Dram | Armenia |
| ANG | Netherlands Antillian Guilder | Netherlands Antilles |
| AOA | Angolan Kwanza | Angola |
| ARS | Argentine Peso | Argentina |
| AUD | Australian Dollar | Australia |
| AWG | Aruban Florin | Aruba |
| AZN | Azerbaijani Manat | Azerbaijan |
| BAM | Bosnia and Herzegovina Mark | Bosnia and Herzegovina |
| BBD | Barbados Dollar | Barbados |
| BDT | Bangladeshi Taka | Bangladesh |
| BGN | Bulgarian Lev | Bulgaria |
| BHD | Bahraini Dinar | Bahrain |
| BIF | Burundian Franc | Burundi |
| BMD | Bermudian Dollar | Bermuda |
| BND | Brunei Dollar | Brunei |
| BOB | Bolivian Boliviano | Bolivia |
| BRL | Brazilian Real | Brazil |
| BSD | Bahamian Dollar | Bahamas |
| BTN | Bhutanese Ngultrum | Bhutan |
| BWP | Botswana Pula | Botswana |
| BYN | Belarusian Ruble | Belarus |
| BZD | Belize Dollar | Belize |
| CAD | Canadian Dollar | Canada |
| CDF | Congolese Franc | Democratic Republic of the Congo |
| CHF | Swiss Franc | Switzerland |
| CLP | Chilean Peso | Chile |
| CNY | Chinese Renminbi | China |
| COP | Colombian Peso | Colombia |
| CRC | Costa Rican Colon | Costa Rica |
| CUC | Cuban Convertible Peso | Cuba |
| CUP | Cuban Peso | Cuba |
| CVE | Cape Verdean Escudo | Cape Verde |
| CZK | Czech Koruna | Czech Republic |
| DJF | Djiboutian Franc | Djibouti |
| DKK | Danish Krone | Denmark |
| DOP | Dominican Peso | Dominican Republic |
| DZD | Algerian Dinar | Algeria |
| EGP | Egyptian Pound | Egypt |
| ERN | Eritrean Nakfa | Eritrea |
| ETB | Ethiopian Birr | Ethiopia |
| EUR | Euro | European Union |
| FJD | Fiji Dollar | Fiji |
| FKP | Falkland Islands Pound | Falkland Islands |
| FOK | Faroese Króna | Faroe Islands |
| GBP | Pound Sterling | United Kingdom |
| GEL | Georgian Lari | Georgia |
| GGP | Guernsey Pound | Guernsey |
| GHS | Ghanaian Cedi | Ghana |
| GIP | Gibraltar Pound | Gibraltar |
| GMD | Gambian Dalasi | The Gambia |
| GNF | Guinean Franc | Guinea |
| GTQ | Guatemalan Quetzal | Guatemala |
| GYD | Guyanese Dollar | Guyana |
| HKD | Hong Kong Dollar | Hong Kong |
| HNL | Honduran Lempira | Honduras |
| HRK | Croatian Kuna | Croatia |
| HTG | Haitian Gourde | Haiti |
| HUF | Hungarian Forint | Hungary |
| IDR | Indonesian Rupiah | Indonesia |
| ILS | Israeli New Shekel | Israel |
| IMP | Manx Pound | Isle of Man |
| INR | Indian Rupee | India |
| IQD | Iraqi Dinar | Iraq |
| IRR | Iranian Rial | Iran |
| ISK | Icelandic Króna | Iceland |
| JMD | Jamaican Dollar | Jamaica |
| JOD | Jordanian Dinar | Jordan |
| JPY | Japanese Yen | Japan |
| KES | Kenyan Shilling | Kenya |
| KGS | Kyrgyzstani Som | Kyrgyzstan |
| KHR | Cambodian Riel | Cambodia |
| KID | Kiribati Dollar | Kiribati |
| KMF | Comorian Franc | Comoros |
| KRW | South Korean Won | South Korea |
| KWD | Kuwaiti Dinar | Kuwait |
| KYD | Cayman Islands Dollar | Cayman Islands |
| KZT | Kazakhstani Tenge | Kazakhstan |
| LAK | Lao Kip | Laos |
| LBP | Lebanese Pound | Lebanon |
| LKR | Sri Lanka Rupee | Sri Lanka |
| LRD | Liberian Dollar | Liberia |
| LSL | Lesotho Loti | Lesotho |
| LYD | Libyan Dinar | Libya |
| MAD | Moroccan Dirham | Morocco |
| MDL | Moldovan Leu | Moldova |
| MGA | Malagasy Ariary | Madagascar |
| MKD | Macedonian Denar | North Macedonia |
| MMK | Burmese Kyat | Myanmar |
| MNT | Mongolian Tögrög | Mongolia |
| MOP | Macanese Pataca | Macau |
| MRU | Mauritanian Ouguiya | Mauritania |
| MUR | Mauritian Rupee | Mauritius |
| MVR | Maldivian Rufiyaa | Maldives |
| MWK | Malawian Kwacha | Malawi |
| MXN | Mexican Peso | Mexico |
| MYR | Malaysian Ringgit | Malaysia |
| MZN | Mozambican Metical | Mozambique |
| NAD | Namibian Dollar | Namibia |
| NGN | Nigerian Naira | Nigeria |
| NIO | Nicaraguan Córdoba | Nicaragua |
| NOK | Norwegian Krone | Norway |
| NPR | Nepalese Rupee | Nepal |
| NZD | New Zealand Dollar | New Zealand |
| OMR | Omani Rial | Oman |
| PAB | Panamanian Balboa | Panama |
| PEN | Peruvian Sol | Peru |
| PGK | Papua New Guinean Kina | Papua New Guinea |
| PHP | Philippine Peso | Philippines |
| PKR | Pakistani Rupee | Pakistan |
| PLN | Polish Złoty | Poland |
| PYG | Paraguayan Guaraní | Paraguay |
| QAR | Qatari Riyal | Qatar |
| RON | Romanian Leu | Romania |
| RSD | Serbian Dinar | Serbia |
| RUB | Russian Ruble | Russia |
| RWF | Rwandan Franc | Rwanda |
| SAR | Saudi Riyal | Saudi Arabia |
| SBD | Solomon Islands Dollar | Solomon Islands |
| SCR | Seychellois Rupee | Seychelles |
| SDG | Sudanese Pound | Sudan |
| SEK | Swedish Krona | Sweden |
| SGD | Singapore Dollar | Singapore |
| SHP | Saint Helena Pound | Saint Helena |
| SLL | Sierra Leonean Leone | Sierra Leone |
| SOS | Somali Shilling | Somalia |
| SRD | Surinamese Dollar | Suriname |
| SSP | South Sudanese Pound | South Sudan |
| STN | São Tomé and Príncipe Dobra | São Tomé and Príncipe |
| SYP | Syrian Pound | Syria |
| SZL | Eswatini Lilangeni | Eswatini |
| THB | Thai Baht | Thailand |
| TJS | Tajikistani Somoni | Tajikistan |
| TMT | Turkmenistan Manat | Turkmenistan |
| TND | Tunisian Dinar | Tunisia |
| TOP | Tongan Paʻanga | Tonga |
| TRY | Turkish Lira | Turkey |
| TTD | Trinidad and Tobago Dollar | Trinidad and Tobago |
| TVD | Tuvaluan Dollar | Tuvalu |
| TWD | New Taiwan Dollar | Taiwan |
| TZS | Tanzanian Shilling | Tanzania |
| UAH | Ukrainian Hryvnia | Ukraine |
| UGX | Ugandan Shilling | Uganda |
| USD | United States Dollar | United States |
| UYU | Uruguayan Peso | Uruguay |
| UZS | Uzbekistani So'm | Uzbekistan |
| VES | Venezuelan Bolívar Soberano | Venezuela |
| VND | Vietnamese Đồng | Vietnam |
| VUV | Vanuatu Vatu | Vanuatu |
| WST | Samoan Tālā | Samoa |
| XAF | Central African CFA Franc | CEMAC |
| XCD | East Caribbean Dollar | Organisation of Eastern Caribbean States |
| XDR | Special Drawing Rights | International Monetary Fund |
| XOF | West African CFA franc | CFA |
| XPF | CFP Franc | Collectivités d'Outre-Mer |
| YER | Yemeni Rial | Yemen |
| ZAR | South African Rand | South Africa |
| ZMW | Zambian Kwacha | Zambia |