FEATURES OF CURRENCY CONVERTER JAVA PROJECT

1. There should be a very simplistic graphical user interface. It is after all a calculator.
2. Must convert every single currency that there is.
3. Offer live exchange rates for the different currencies.
4. Simple dropdown menu to select currency to exchange from.
5. Should be able to accept any numerical value.
6. Option to switch display text to different language with an open language preferences feature(tab/button).

Essential Features

1. Simplistic graphical user interface
2. Must convert every single currency that there is.
3. Simple dropdown menu to select currency to exchange from.
4. Should be able to accept any numerical value.

Non-essential Features

1. Offer live exchange rates for the different currencies.
2. Option to switch display text to different language with an open language preference feature(tab/button).

Entity class:

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| Graphical User Interface |
| * Frame(JFrame) |
| * Buttons(JButton) |
| * Drop down menu for country(JLabel) |
| * Empty field to type currency values |
| * Drop down menu for language selection |

Classes for Essential Features

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| Currencies |
| Choices to connect to the drop down menu: |
| 1. Abkhazian apsar |
| 1. Russian Ruble |
| 1. Afghan afghani |
| 1. Euro |
| 1. Albanian lek |
| 1. Alderney Pound |
| 1. British Pound |
| 1. Guernsey pound |
| 1. Algerian dinar |
| 1. Angolan kwanza |
| 1. Eastern Caribbean dollar |
| 1. Argentine peso |
| 1. Armenian dram |
| 1. Artsakh dram |
| 1. Aruban florin |
| 1. Saint Helena pound |
| 1. Australian dollar |
| 1. Azerbaijani manat |
| 1. Bahamian dollar |
| 1. Bahraini dinar |
| 1. Bangladeshi taka |
| 1. Barbadian dollar |
| 1. Belarusian ruble |
| 1. Belize dollar |
| 1. West African CFA franc |
| 1. Bermudian dollar |
| 1. Bhutanese ngultrum |
| 1. Indian rupee |
| 1. Bolivian boliviano |
| 1. United States dollar |
| 1. Bosnia and Herzegovina convertible mark |
| 1. Botswana pula |
| 1. Brazilian real |
| 1. Brunei dollar |
| 1. Singapore dollar |
| 1. Bulgarian lev |
| 1. Burundian franc |
| 1. Cambodian riel |
| 1. Central African CFA franc |
| 1. Canadian dollar |
| 1. Cape Verdean escudo |
| 1. Cayman Islands dollar |
| 1. Chilean peso |
| 1. Chinese yuan |
| 1. Colombian peso |
| 1. Comorian franc |
| 1. Congolese franc |
| 1. Cook Islands dollar |
| 1. New Zealand dollar |
| 1. Cost Rican colon |
| 1. Croatian kuna |
| 1. Cuban peso |
| 1. Netherlands Antillean guilder |
| 1. Czech koruna |
| 1. Danish krone |
| 1. Djiboutian franc |
| 1. Dominican peso |
| 1. Egyptian pound |
| 1. Bitcoin |
| 1. Eritrean nakfa |
| 1. Swazi lilangeni |
| 1. South African rand |
| 1. Ethiopian birr |
| 1. Falkland Islands pound |
| 1. Faroese krona |
| 1. Fijian dollar |
| 1. CFP franc |
| 1. Gambian dalasi |
| 1. Georgian lari |
| 1. Ghanaian cedi |
| 1. Gibraltar pound |
| 1. Guatemalan quetzal |
| 1. Guinean franc |
| 1. Guyanese dollar |
| 1. Haitian gourde |
| 1. Honduran lempira |
| 1. Hong Kong dollar |
| 1. Hungarian forint |
| 1. Icelandic krona |
| 1. Indonesian rupiah |
| 1. Iranian real |
| 1. Iraqi dinar |
| 1. Manx pound |
| 1. Israeli new shekel |
| 1. Jamaican dollar |
| 1. Japanese yen |
| 1. Jersey pound |
| 1. Jordanian dinar |
| 1. Kazakhstani tenge |
| 1. Kenyan shilling |
| 1. Kiribati dollar |
| 1. North Korean won |
| 1. South Korean won |
| 1. Kuwaiti dinar |
| 1. Kyrgyzstani som |
| 1. Lao kip |
| 1. Lebanese pound |
| 1. Lesotho loti |
| 1. Liberian dollar |
| 1. Libyan dinar |
| 1. Swiss franc |
| 1. Macanese pataca |
| 1. Malagasy ariary |
| 1. Malawian kwacha |
| 1. Malaysian ringgit |
| 1. Maldivian rufiyaa |
| 1. Mauritanian ouguiya |
| 1. Mauritian rupee |
| 1. Mexican peso |
| 1. Moldovan leu |
| 1. Mongolian togrog |
| 1. Moroccan dirham |
| 1. Mozambican metical |
| 1. Burmese kyat |
| 1. Nambian dollar |
| 1. Nepalese rupee |
| 1. Nicaraguan cordoba |
| 1. Nigerian naira |
| 1. Niue dollar |
| 1. Macedonian denar |
| 1. Turkish lira |
| 1. Norwegian krone |
| 1. Omani rial |
| 1. Pakistani rupee |
| 1. Panamanian balboa |
| 1. Papua New Guinean kina |
| 1. Paraguayan guarani |
| 1. Peruvian sol |
| 1. Philippine peso |
| 1. Pitcairn Islands dollar |
| 1. Polish zloty |
| 1. Qatari riyal |
| 1. Romanian leu |
| 1. Rwandan franc |
| 1. Sahrawi peseta |
| 1. Samoan tala |
| 1. Sao Tome and Principe dobra |
| 1. Saudi riyal |
| 1. Serbian dinar |
| 1. Seychellois rupee |
| 1. Sierra Leonean leone |
| 1. Solomon Islands dollar |
| 1. Somali shilling |
| 1. Somaliland shilling |
| 1. South Sudanese pound |
| 1. Sri Lankan rupee |
| 1. Sudanese pound |
| 1. Surinamese dollar |
| 1. Swedish krona |
| 1. Syrian pound |
| 1. New Taiwan dollar |
| 1. Tajikistani somoni |
| 1. Tanzanian shilling |
| 1. Thai baht |
| 1. Tongan pa’anga |
| 1. Transnistrian ruble |
| 1. Trinidad and Tobago dollar |
| 1. Tunisian dinar |
| 1. Turkmenistan manat |
| 1. Tuvaluan dollar |
| 1. Ugandan shilling |
| 1. Ukrainian hryvnia |
| 1. United Arab Emirates dirham |
| 1. Uruguayan peso |
| 1. Uzbekistani so’m |
| 1. Vanuatu vatu |
| 1. Venezuelan bolivar soberano |
| 1. Vietnamese dong |
| 1. Yemeni rial |
| 1. Zambian kwacha |
| 1. RTGS dollar |

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| Currency Conversions |
| * Correct currency signage implemented upon selection. |
| * Implement the correct calculation between currencies. |
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| Country of Origin Selection |
| * Changes dollar signs as you select country of origin |
| * Should include default currencies to convert(pre-selected) |

Non-essential features:

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| Live Exchange Rates |
| * Forecast chart |
| * Bid/Ask |
| * Percent increase and decrease of currency values |

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| Historical Exchange Rates |
| * Select graph based on user input. |
| * Currency to convert from. |
| * Currency to convert to. |
| * Data range goes back 6 months |

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| Interbank Exchange Rates |
| * Interbank plus or minus drop down |
| * Searchable Calendar Date |
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| Convert language to users native language |
| * Complete list of languages to connect to appropriate GUI drop down menu. Instantly converts to native language |

<https://en.wikipedia.org/wiki/List_of_circulating_currencies>

model: https://www1.oanda.com/currency/converter/