

Currency Converter

Software Testing using Junit, Selenium & Mockito

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This report was written for the Software Testing coursework, specifically the mini project. In which, the development process of the project is described.

Summary

Throughout the development of this project, the process was divided into 3 sections. The first section (Data Collection) collects data including currencies and currency conversion rates database tables. The second section (User Interface) presents the user interface specifications. The third section (Testing tasks) shows the testing tasks using Junit, Selenium, and Mockito.

Contents

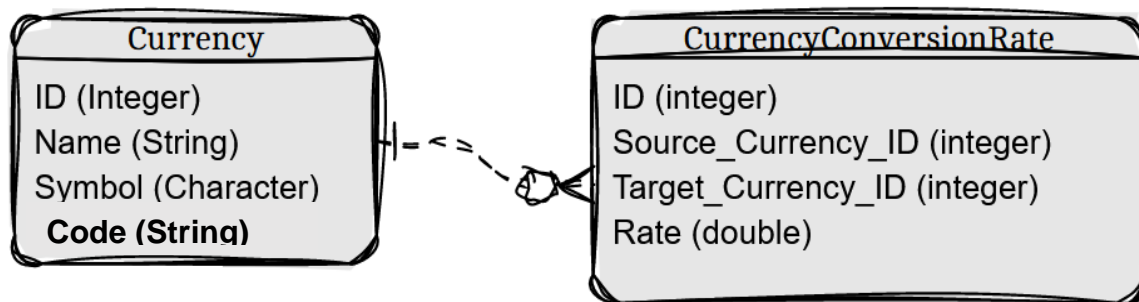
Summary	1
Data Collection	2
Currency.....	2
Currency Conversion Rates	2
User Interface.....	3
Inputs.....	3
Outputs	4
Testing tasks.....	4
Junit and Mockito test cases	4
Selenium	4
Postman.....	4

Currency Converter

Software Testing using Junit, Selenium & Mockito

Data Collection

Entity Relationship Diagram ERD



Currency

* id int	name varchar(255)	symbol char(1)	code varchar(3)
1	United States Dollar	\$	USD
2	Euro	€	EUR
3	Israeli New Shekel	₪	ILS
4	Yen	¥	JPY
5	Jordanian Dinar	د.د	JOD
6	Indian Rup	₹	INR
7	Lebanese Pound	ل.ل	LBP

Currency Conversion Rates

* id int	source_currency_id int	target_currency_id int	rate double
1	1	2	0.912
2	2	1	1.095
3	1	3	3.622
4	3	1	0.276
5	1	4	142.017
6	4	1	0.007
7	1	5	0.709
8	5	1	1.41
9	1	6	81.969
10	6	1	0.012
11	1	7	14947.548

42 rows

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User Interface

Inputs

The user should chose the source of the data either from API or from databvase



Source of the data:

Database

API

When they chose the source they should be redirected and shown the dta based on their choice

Currency Converter

Amount:



From:

ILS - 1



To:

AOA - 220.6701



Convert

Reset

Currency Converter

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Outputs

Will get the rates from the API or from the Database based on the choice

Currency Converter

Amount:

120



From:

ILS - 1



To:

USD - 0.2758



Convert

Reset

33.10 USD

Exchange Rate: 1 ILS = 0.28 USD

Testing tasks

Junit and Mockito test cases

Junit tests were generated and submitted on the java tests folder

Selenium

Selenium were used by the webdriver and the test cases were saved and submitted.

Postman

Postman were used to test the API and the report was also saved.

Currency Converter

Software Testing using Junit, Selenium & Mockito

Java Web application was used to complete this project using maven basic web archetype on the server tomcat using the local host

