



# HACKATHON PROJECT

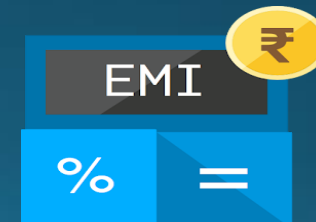
## EMICALCULATOR

--Rudransh Bhardwaj

# PROBLEM STATEMENT

- Find the EMI for Car with price of 15 Lac, Interest rate of 9.5% & Tenure 1 year; Display the interest amount & principal amount for one month
- From Menu, pick Home Loan EMI Calculator, fill relevant details & extract all the data from year-on-year table & store in excel;
- From Menu, pick Loan Calculator and under EMI calculator, do all UI check for text box & scales; change the Loan tenure for year & month, check the change in scale; Re-use the same validation for Loan Amount Calculator & Loan Tenure Calculator.

WEBSITE USED - <https://emicalculator.net/>



# IMPLEMENTATION

## Identification of scenario

- Identified Scenarios for all three modules
- Three modules includes EMI Calculator, Home Loan Details and Loan Calculator

## • Main code

- Done manual testing
- Implemented automation using selenium

## Incorporate TestNG

- Added TestNG framework for each module and executed

## POM

- Implemented code in the POM framework

## Report

- Added html report to the POM model

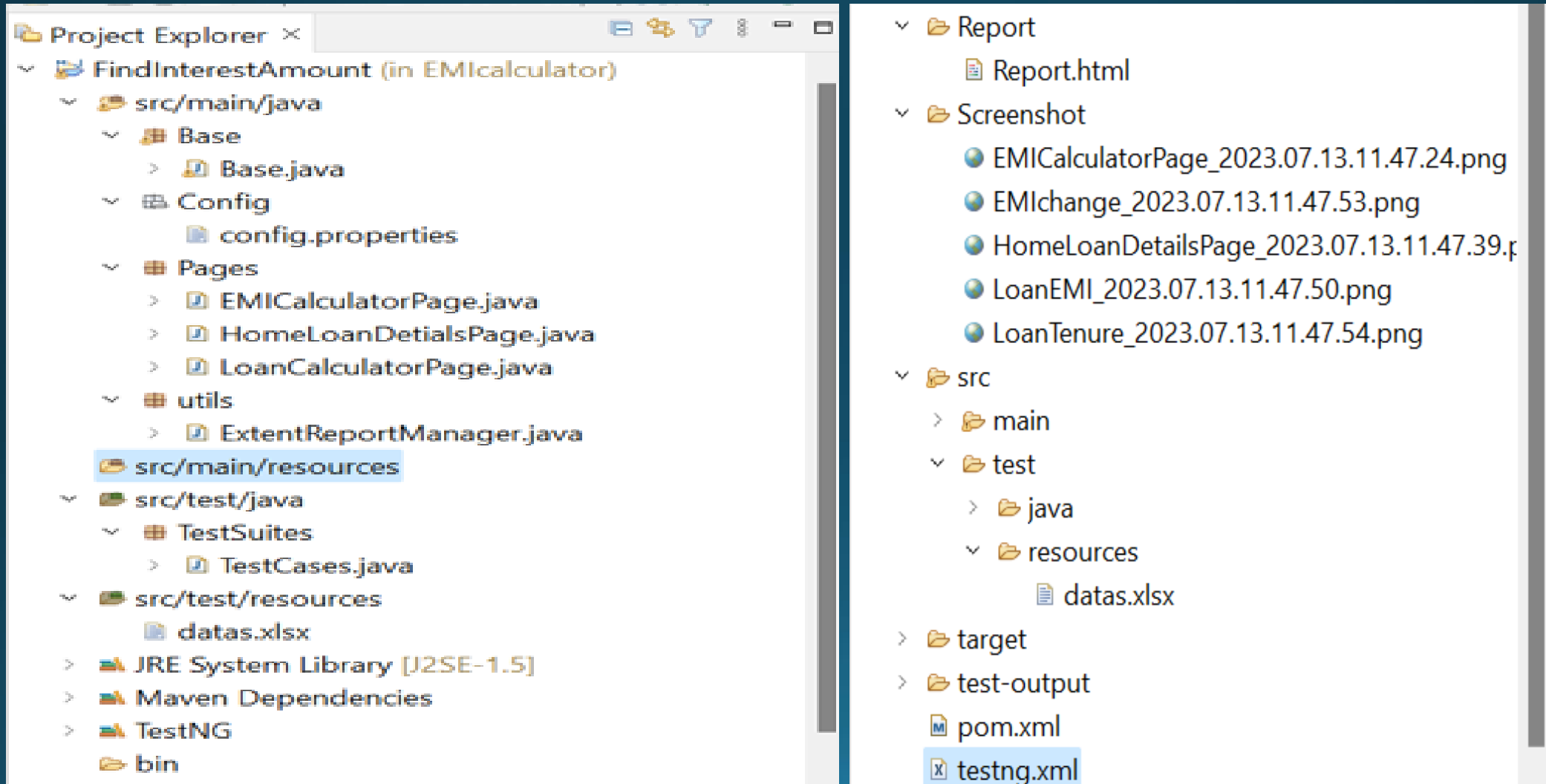
# MODULES

- EMI Calculator
- Home loan details
- Loan calculator

# TOOLS AND SOFTWARE USED

- JAVA (LANGUAGE MEDIUM)
- ECLIPSE IDE
- SELENIUM FRAMEWORK (AUTOMATION)
- TESTNG FRAMEWORK
- MAVEN TOOL (PROJECT BUILD TOOL)
- APACHE POI (DATA DRIVEN FRAMEWORK)
- PAGE OBJECT MODEL (POM)
- EXTENT HTML REPORT

# PROJECT STRUCTURE



<terminated> TestCases [TestNG] C:\Users\2266635\Downloads\eclipse-jee-2023-03-R-win32-x86\_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.6.v20230204-1729\jre\bin\javaw.exe (Jul 13, 2023, 11:16:14)

The interest for the month is ₹ 11,875 and principle amount is ₹ 1,19,650

2023	₹ 6,679	₹ 89,876	₹ 18,000	₹ 1,14,555	₹ 19,93,321	0.33%
2024	₹ 14,290	₹ 1,78,819	₹ 36,000	₹ 2,29,109	₹ 19,79,031	1.05%
2025	₹ 15,631	₹ 1,77,478	₹ 36,000	₹ 2,29,109	₹ 19,63,400	1.83%
2026	₹ 17,097	₹ 1,76,012	₹ 36,000	₹ 2,29,109	₹ 19,46,302	2.68%
2027	₹ 18,701	₹ 1,74,408	₹ 36,000	₹ 2,29,109	₹ 19,27,601	3.62%
2028	₹ 20,455	₹ 1,72,654	₹ 36,000	₹ 2,29,109	₹ 19,07,146	4.64%
2029	₹ 22,374	₹ 1,70,735	₹ 36,000	₹ 2,29,109	₹ 18,84,771	5.76%
2030	₹ 24,473	₹ 1,68,636	₹ 36,000	₹ 2,29,109	₹ 18,60,298	6.99%
2031	₹ 26,769	₹ 1,66,341	₹ 36,000	₹ 2,29,109	₹ 18,33,529	8.32%
2032	₹ 29,280	₹ 1,63,829	₹ 36,000	₹ 2,29,109	₹ 18,04,249	9.79%
2033	₹ 32,027	₹ 1,61,083	₹ 36,000	₹ 2,29,109	₹ 17,72,223	11.39%
2034	₹ 35,031	₹ 1,58,078	₹ 36,000	₹ 2,29,109	₹ 17,37,192	13.14%
2035	₹ 38,317	₹ 1,54,792	₹ 36,000	₹ 2,29,109	₹ 16,98,874	15.06%
2036	₹ 41,912	₹ 1,51,198	₹ 36,000	₹ 2,29,109	₹ 16,56,963	17.15%
2037	₹ 45,843	₹ 1,47,266	₹ 36,000	₹ 2,29,109	₹ 16,11,120	19.44%
2038	₹ 50,144	₹ 1,42,966	₹ 36,000	₹ 2,29,109	₹ 15,60,976	21.95%
2039	₹ 54,847	₹ 1,38,262	₹ 36,000	₹ 2,29,109	₹ 15,06,129	24.69%
2040	₹ 59,992	₹ 1,33,117	₹ 36,000	₹ 2,29,109	₹ 14,46,136	27.69%
2041	₹ 65,620	₹ 1,27,489	₹ 36,000	₹ 2,29,109	₹ 13,80,516	30.97%
2042	₹ 71,776	₹ 1,21,334	₹ 36,000	₹ 2,29,109	₹ 13,08,740	34.56%
2043	₹ 78,509	₹ 1,14,601	₹ 36,000	₹ 2,29,109	₹ 12,30,231	38.49%
2044	₹ 85,874	₹ 1,07,236	₹ 36,000	₹ 2,29,109	₹ 11,44,358	42.78%
2045	₹ 93,929	₹ 99,180	₹ 36,000	₹ 2,29,109	₹ 10,50,429	47.48%
2046	₹ 1,02,740	₹ 90,369	₹ 36,000	₹ 2,29,109	₹ 9,47,688	52.62%
2047	₹ 1,12,378	₹ 80,731	₹ 36,000	₹ 2,29,109	₹ 8,35,310	58.23%
2048	₹ 1,22,920	₹ 70,190	₹ 36,000	₹ 2,29,109	₹ 7,12,390	64.38%
2049	₹ 1,34,451	₹ 58,659	₹ 36,000	₹ 2,29,109	₹ 5,77,940	71.1%
2050	₹ 1,47,063	₹ 46,046	₹ 36,000	₹ 2,29,109	₹ 4,30,877	78.46%
2051	₹ 1,60,859	₹ 32,251	₹ 36,000	₹ 2,29,109	₹ 2,70,018	86.5%
2052	₹ 1,75,948	₹ 17,161	₹ 36,000	₹ 2,29,109	₹ 94,070	95.3%
2053	₹ 94,070	₹ 2,485	₹ 18,000	₹ 1,14,555	₹ 0	100%

\*\*\*\*\*EMI Calculator\*\*\*\*\*

The amount before scrolling the Loan Amount scale is: ₹13.07.077

<terminated> TestCases [TestNG] C:\Users\2266635\Downloads\eclipse-jee-2023-03-R-win32-x86\_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.6.v20230204-1729\jre\bin\javaw.exe (Jul 13, 2023, 11:16:14)

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2053	₹ 94,070	₹ 2,485	₹ 18,000	₹ 1,14,555	₹ 0	100%

\*\*\*\*\*EMI Calculator\*\*\*\*\*

The amount before scrolling the Loan Amount scale is: ₹13,07,077

The amount after scrolling the Loan Amount scale is: ₹28,63,570

Year Scale:

0 5 10 15 20 25 30

Month Scale:

0 60 120 180 240 300 360

\*\*\*\*\*Loan Amount Calculator\*\*\*\*\*

Month Scale:

0 60 120 180 240 300 360

Year Scale:

0 5 10 15 20 25 30

\*\*\*\*\*Loan Tenure Calculator\*\*\*\*\*

Loan Tenure Before Scrolling the scale: 60

Loan Tenure After Scrolling the scale: 115

PASSED: TestSuites.TestCases.homeloan

PASSED: TestSuites.TestCases.emicalc

PASSED: TestSuites.TestCases.loancalc

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Default test

Tests run: 3, Failures: 0, Skips: 0

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Default suite

Total tests run: 3, Passes: 3, Failures: 0, Skips: 0

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