# <u>CMPE 202 – Individual Project</u> Credit Card Problem

## Part 3

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### Demo of the application

#### **Step 1:**

mvn clean

```
(base) arpitha@Arpithas-MacBook-Air individual-project-arpithagurumurthy % mvn clean
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for org.sisu:CMPE 202 Project Arpitha:jar:1.0-SNAPSHOT
[WARNING] 'build.plugins.plugin.version' for org.apache.maven.plugins:maven-jar-plugin is missing. @ line 67, column 21
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[WARNING]
[INFO]
                     --< org.sjsu:CMPE_202_Project_Arpitha >------
[INFO] Building CMPE_202_Project_Arpitha 1.0-SNAPSHOT
[INFO] -----[ jar ]---
[INFO]
          maven-clean-plugin:2.5:clean (default-clean) @ CMPE_202_Project_Arpitha
[INFO] Deleting /Users/arpitha/Documents/202_IndividualProj/individual-project-arpithagurumurthy/target
[INFO] --
[INFO] BUILD SUCCESS
[INFO] Total time: 0.162 s
[INFO] Finished at: 2021-05-08T17:37:11-07:00
(base) arpitha@Arpithas-MacBook-Air individual-project-arpithagurumurthy %
```

#### Step 2:

#### mvn install

```
T E S T S

Running MasterCreditCardTest
Tests run: 12, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.126 sec
Running AmexCreditCardTest
Tests run: 12, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.004 sec
Running VisaCreditCardTest
Tests run: 12, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.01 sec
Running DiscoverCreditCardTest
Tests run: 12, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.01 sec
Running InvalidCreditCardTest
Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 sec
Results:
```

Tests run: 51, Failures: 0, Errors: 0, Skipped: 0

#### Step 3:

Running the application

#### **CSV** input file

```
(base) arpitha@Arpithas-MacBook-Air individual-project-arpithagurumurthy % ls
Part_1_Individual.pdf README.md
                                                   src
Part_2_Individual.pdf
                                                   target
                         pom.xml
(base) arpitha@Arpithas-MacBook-Air individual-project-arpithagurumurthy % cd target/CreditCard (base) arpitha@Arpithas-MacBook-Air CreditCard % ls
CreditCardValidator.jar lib
(base) arpitha@Arpithas-MacBook-Air CreditCard % java -jar CreditCardValidator.jar /Users/arpitha/Documents/202_IndividualProj/ind
ividual-project-arpithagurumurthy/src/main/resources/cards.csv .
Received 2 arguments /Users/arpitha/Documents/202_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.csv
(base) arpitha@Arpithas-MacBook-Air CreditCard % ls
CreditCardValidator.jar creditcard output.csv
                                                   lib
(base) arpitha@Arpithas-MacBook-Air CreditCard % cat creditcard_output.csv
5410000000000000, Alice, 3/20/2030, MasterCard
41200000000000, Bob, 4/20/2030, Visa
341000000000000, Eve, 5/20/2030, Amex
6011000000000000, Richard, 6/20/2030, Discover
12000000000000000000, Invalid, 6/20/2030, Invalid
(base) arpitha@Arpithas-MacBook-Air CreditCard %
```

#### JSON input file

```
(base) arpitha@Arpithas-MacBook-Air CreditCard % java -jar CreditCardValidator.jar /Users/arpitha/Documents/202_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.json ./

Received 2 arguments /Users/arpitha/Documents/202_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.jso n: ./

[base) arpitha@Arpithas-MacBook-Air CreditCard % ls

CreditCardValidator.jar creditcard_output.csv creditcard_output.json lib

[base) arpitha@Arpithas-MacBook-Air CreditCard % cat creditcard_output.json lib

["{\n \"cardNumber\" : \"541000000000000\",\n \"cardName\" : \"Alice\",\n \"expirationDate\" : \"3/20/2030\",\n \"cardType\" : \"MasterCard\"\n)", "(n \"cardNumber\" : \"41200000000000\",\n \"cardName\" : \"Bob\",\n \"expirationDate\" : \"4/20/2030\",\n \"cardType\" : \"4/20/2030\",\n \"cardType\" : \"4/20/2030\",\n \"cardNumber\" : \"4/20/2030\",\n \"cardNumber\" : \"5/2

0/2030\",\n \"cardType\" : \"Amex\"\n}", "{\n \"cardNumber\" : \"6/20/2030\",\n \"cardType\" : \"Discover\"\n}", "{\n \"cardNumber\" : \"900120000000000\",\n \"cardName\" : \"Inv alid\"\n\"]

(base) arpitha@Arpithas-MacBook-Air CreditCard %
```

#### XML input file

```
(base) arpitha@Arpithas-MacBook-Air CreditCard % java -jar CreditCardValidator.jar /Users/arpitha/Documents/202_IndividualProj/in
ividual-project-arpithagurumurthy/src/main/resources/cards.xml ./
Received 2 arguments /Users/arpitha/Documents/202_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.xm
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.sun.xml.bind.v2.runtime.reflect.opt.Injector (file:/Users/arpitha/Documents/202_Individ
alProj/individual-project-arpithagurumurthy/target/CreditCard/lib/jaxb-impl-2.2.11.jar) to method java.lang.ClassLoader.defineCla
s(java.lang.String,byte[],int,int)
WARNING: Please consider reporting this to the maintainers of com.sun.xml.bind.v2.runtime.reflect.opt.Injector
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<creditcards>
    <creditCards xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="masterCC">
        <cardNumber>5410000000000000000</cardNumber>
        <cardName>Alice</cardName>
        <expirationDate>3/20/2030</expirationDate>
        <type>MasterCard</type>
    </creditCards>
    <creditCards xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="visaCC">
        <cardNumber>4120000000000</cardNumber>
        <cardName>Bob</cardName>
        <expirationDate>4/20/2030</expirationDate>
        <type>Visa</type>
    </creditCards>
    <creditCards xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="amExCC">
        <cardNumber>341000000000000</cardNumber>
        <cardName>Eve</cardName>
        <expirationDate>5/20/2030</expirationDate>
        <type>Amex</type>
    </creditCards>
```

#### Invalid input file format:

(base) arpitha@Arpithas-MacBook-Air CreditCard % java -jar CreditCardValidator.jar /Users/arpitha/Documents/202\_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.invalid ./
Received 2 arguments /Users/arpitha/Documents/202\_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.invalid : ./
No supported parser found for the given file /Users/arpitha/Documents/202\_IndividualProj/individual-project-arpithagurumurthy/src/main/resources/cards.invalid
(base) arpitha@Arpithas-MacBook-Air CreditCard % ■

#### Invalid input file path:

(base) arpitha@Arpithas-MacBook-Air CreditCard % java -jar CreditCardValidator.jar /Users/arpitha/Documents/202\_IndividualProj/individual-project-arpithagurumurthy/src/main//cards.csv ./
Received 2 arguments /Users/arpitha/Documents/202\_IndividualProj/individual-project-arpithagurumurthy/src/main//cards.csv : ./
The provided path is incorrect /Users/arpitha/Documents/202\_IndividualProj/individual-project-arpithagurumurthy/src/main/cards.csv
(No such file or directory)
(base) arpitha@Arpithas-MacBook-Air CreditCard %

#### **Project Structure:**

