System Requirements Specification Index

For

PythonCredit Card Management ConsoleApplication

Version 1.0

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Credit Card ManagementConsoleApplication
System Requirements Specification

1   PROJECT ABSTRACT

Credit CardConsoleApplication is a python application which maintains an inventory of Commercial Credit Cards and their transaction status.

2   COMMON CONSTRAINTS

1. Take n input details of credit card type and store in a collection.
2. Take console input of number of transactions made(m).
3. Take input of details of transactions made and store in a collection.
4. Show the account balance after every transaction.

3   TEMPLATE CODE STRUCTURE

Resources(Instances)

Class	Description	Status
Card	This class contains all the properties of the Cardin the constructor.	Already implemented.
Transaction	This class contains all the properties of the Transactionin the constructor.	Already implemented.

Resources(Business Logic)

Class	Description	Status
CustomerInventory	This class contains all the methods which are used to write the business logic for the application.	Partially implemented (available only template code).

Resources (Exceptions)

Class	Description	Status
CardNumberAlreadyExistsError	Custom Exception to be thrown when trying toadd a customer card whose card number is already exists.	Already created.
CardNumberDoesNotExistsError	Custom Exception to be thrown when trying to perform transaction with the card whose card number does not exists.	Already created.
CardBlockedError	Custom Exception to be thrown when trying to use blocked card for transaction.	Already created.
InvalidAmountError	Custom Exception to be thrown when transaction amount is not minimum 100 (or less then RS 100).	Already created.
AmountNotAvailableError	Custom Exception to be thrown if card balance is below RS 100.	Already created.
InsufficientBalanceError	Custom Exception to be thrown if transaction amount is greater than card balance/account balance.	Already created.

Resources(Main class)

Class	Description	Status
MainClass	This is the class which is having methods to be used to read data from the user and display the data. All the business logic methods of the CustomerInventory class will be called from this class.	Partially implemented (available only template code).

1. All actions like build, compile, running application, running test cases will be through Command Terminal.

2. To open the command terminal the test takers, need to go to

   Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.

3. The editor Auto Saves the code.

4. If you want to exit(logout) and to continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.

5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.

6. To run the application, use the following command

   python3 main.py

7. Mandatory: Before final submission run the following command

   python3 -m unittest

8. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on "Submit Assessment" after you are done with code.

9. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.

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