System Requirements Specification Index

For

Credit Card Management Console Application

Version 1.0

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1 PROJECT ABSTRACT

Credit Card Management Console Application is pure java application with Java collection, where it allows to manage the credit card and the transaction details.

2 COMMON CONSTRAINTS

1. Take console input of number of cards: (n)
2. Take input of details of each card and store it in a collection.
3. Take input of details of transaction to be to be done on the card (only 1 transaction at a time)
4. Get the balance after each transaction
5. Show all the transactions done on all the cards.

3 TEMPLATE CODE STRUCTURE

3.1 PACKAGE: COM.IIHT.TRAINING.CREDITCARD.MODEL

Resources

Class/Interface	Description	Status
Card (class)	This class contains all the properties of the Card class.	Already implemented.
Transactions(class)	This class contains all the properties of the Transactions class	Already implemented.

3.2 PACKAGE: COM.IIHT.TRAINING.CREDITCARD.INVENTORY

Resources

Class/Interface	Description	Status
CardInventory (class)	This class contains all the methods which are used to write the business logic for the application You can create any number of private methods in the class	Partially implemented.

3.3 PACKAGE: COM.IIHT.TRAINING.CREDITCARD.EXCEPTION

Resources

Class/Interface	Description	Status
CardNumberDoesNotExistsException (Class)	Custom Exception to be thrown when trying to add a card for which card number is null.	Already created.
CardNumberAlreadyExistsException (Class)	Custom Exception to be thrown when trying to save a card which already exists in the collection.	Already created.
InvalidCardNumberException (Class)	Custom Exception is thrown when the card number length is not 16 digits.	Already created.
InvalidAmountException (Class)	Custom Exception is thrown when the transaction amount is less than 100.	Already created.
CardBlockedException (Class)	Custom Exception is thrown when the card status is false and you are trying to do transactions.	Already created.
AmountNotAvailableException (Class)	Custom Exception is thrown when the card balance is 100or less.	Already created.
InsufficientBalanceException (Class)	Custom Exception is thrown when the transaction amount is greater than the card balance.	Already created.

3.4 PACKAGE: COM.IIHT.TRAINING.CREDITCARD.CONTROLLER

Resources

Class/Interface	Description	Status
CardController (Class)	This is the class which has the main method. All the business logic methods of the CardInventory class will be called from this class.	To be implemented

4 EXECUTION STEPS TO FOLLOW

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. **This editor Auto Saves the code.**
4. **If you want to exit(logout) and 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 your project use command:**

   ```
   mvn clean install exec:java -
   Dexec.mainClass="com.iiht.training.creditcard.controller.CardController"
   ```
7. **To test your project, use the command**

   ```
   mvn test
   ```

8. **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.**