

Assignment 1

Functional Requirements & User Stories of ATM Machine

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1 Functional Requirements

1.1 Connection of ATMs with the main Server.

1.2 PIN Validation

1.3 Card Validation

1.4 Account Validation

1.5 Cash With-drawl

1.6 Funds Transfer

2 User Stories

2.1 Connection of multiple ATM with the main Server.

Multiple ATM placed in different geographical areas. In order to have the access to the bank database these ATM will be connected to the main server placed in the head office or data center of the bank

2.2 PIN Validation

In order to use the services of the ATM customers will be provided with the ATM Debit or Credit Card. User will insert the card in the card insertion area of the machine where he will be asked to type the 4 digits PIN code for the authentication. Upon successful authentication user will be prompt to the main window of the ATM program. Upon any

unsuccessful attempt the user will be prompt for the error. In case of wrong PIN user will get the error message that PIN is wrong.

2.3 Card Validation

When the card is inserted in the card insertion area. First, the card is checked whether the card is block or not. Then after that the card validity is checked if the card is expired then the error message is prompted. In case the card is blocked or stolen it is confiscated by the ATM. If the card is neither expired nor blocked user is prompted to the main menu of the ATM.

2.4 Account Validation

After the PIN validation and card validation the account validation is done. The account is checked whether the account has enough funds to perform the transaction or not. Besides, the account condition is also checked that whether the account is blocked or not. In case the account is blocked due to any reason then user is prompted with the error message.

2.5 Cash With-drawl

If the PIN, card & account validation is done user is then prompt with the main menu of the ATM interface. When the user select the cash with-drawl option he is then said to enter the amount which he/she wanted to withdraw. The user is restricted to enter the amount in multiple of 500. Besides, he/she is also forced to not enter amount more than 20000. After the amount entry the user account information is checked whether he/she is having the required amount of balance or not. If not he/she is prompted with the error. The balance is insufficient.