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CS 3354.007

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Homework 5

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| --- | --- |
| 2.1  2.2  2.3  2.4  2.5  2.6  2.6.1  2.6.2  2.6.3  2.6.3.1  2.6.3.1.1  2.6.3.2  2.6.3.3  2.6.3.4  2.6.3.5  2.6.3.6  2.6.3.7  2.6.4  2.6.4.1  2.7  2.8  2.9 | The customer selects the Withdraw Button on the Transaction Selection Screen.  The GUI prompts the customer for the amount they would like to withdraw.  The customer enters the amount and presses the Submit button.  The Transaction GUI withdraws the corresponding amount of money from the customer’s account with the Transaction Controller.  The Transaction Controller creates a blank msg.  For the requested withdrawal,  The Transaction Controller gets the current balance of the customer’s account from the DBMgr using the customer’s credentials.  DMBgr returns the customer’s balance to the Transaction Controller.  If the current account balance is greater than or equal to the requested withdrawal  If the requested withdrawal is equal to the current account balance  The Transaction Controller appends “Your account will face minimum  fees due to withdrawing your full balance.” to msg.  The Transaction Controller withdraws the corresponding amount of  money from the customer’s balance in DBMgr.  The Transaction Controller saves the final balance to the customer’s  account using DBMgr.  The Transaction Controller appends the amount of money dispensed to  msg.  The Transaction Controller communicates the amount of money to the  Cash Dispenser.  The Cash Dispenser physically allocates the correct amount of cash to  the Transaction Controller.  The Transaction Controller releases the cash from the Cash Dispenser  to the customer.  Else  The Transaction Controller appends “Your withdrawal exceeds your  current balance.” to msg.  The Transaction Controller returns msg to Transaction GUI.  Transaction GUI displays msg to the customer.  The customer selects the OK Button and receives their cash. |

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| # | Subject | Subject Action | Other Data/Objects | Object Acted Upon |
| 2.1 | Customer | selects | Withdraw button | Transaction GUI |
| 2.2 | Transaction GUI | prompts | amount | Customer |
| 2.3 | Customer | enters | amount | Transaction GUI |
| 2.4 | Transaction GUI | withdraws | amount | Transaction Controller |
| 2.5 | Transaction Controller | creates |  | msg |
| 2.6 | For the requested withdrawal | | |  |
| 2.6.1 | Transaction Controller |  |  |  |
| 2.6.2 | DBMgr | return | Customer balance | Transaction Controller |
| 2.6.3 | If the current account balance is greater than or equal to the requested withdrawal | | |  |
| 2.6.3.1 | If the requested withdrawal is equal to the current account balance | | |  |
| 2.6.3.1.1 | Transaction Controller | appends | string | msg |
| 2.6.3.2 | Transaction Controller | withdraws | amount | Customer account |
| 2.6.3.3 | Transaction Controller | saves | amount | Customer account |
| 2.6.3.4 | Transaction Controller | appends | amountString | msg |
| 2.6.3.5 | Transaction Controller | communicates | amount | Cash Dispenser |
| 2.6.3.6 | Cash Dispenser | allocates | cash | Transaction Controller |
| 2.6.3.7 | Transaction Controller | releases | Cash | Cash Dispenser |
| 2.6.4 | Else | | |  |
| 2.6.4.1 | Transaction Controller | appends | String | msg |
| 2.7 | Transaction Controller | returns | msg | Transaction GUI |
| 2.8 | Transaction GUI | displays | msg | Customer |
| 2.9 | Customer | selects | OK Button | Transaction GUI |

A black screen with white text

AI-generated content may be incorrect.