1. Develop five test cases for the ATM system and fill the test case template on the next page.

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| **Test Case #: 1.1** | **Test Case Name: PIN error message** |
| **System: ATM** | **Subsystem: PIN** |
| **Designed by: Usama** | **Design Date: 10/8/2020** |
| **Executed by:** | **Execution Date:** |
| **Short Description:** Verify the error message by entering an incorrect PIN |  |

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| **Pre-Conditions:**  **User has a valid ATM card and has access to insert ATM card into the machine**  **The user has already setup the PIN** |

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| Step | Action | Expected System Response | Pass/  Fail | Comment |
| 1 | User enter arbitrary or wrong PIN code | System must response wrong PIN and show error message |  |  |

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| **Post-Conditions**  **After several attempts’ ATM stop card transaction (Due to security concerns)** |

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| **Test Case #: 1.2** | **Test Case Name: PIN request** |
| **System:**  **ATM** | **Subsystem: PIN** |
| **Designed by: Usama** | **Design Date:** |
| **Executed by:** | **Execution Date:** |
| **Short Description:** Verify that the user is asked to enter the PIN after inserting a valid ATM Card |  |

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| **Pre-Conditions**  **User has a valid ATM card and has access to insert ATM card into the machine**  **User may or may not have setup PIN for the first time** |

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| Step | Action | Expected System Response | Pass/  Fail | Comment |
| 1 | User Enter ATM card | ATM machine checks if card need PIN setup or not |  |  |
| 2 | If Not: User enter CNIC details along with 4-digit code received on your mobile | ATM machine check for its validity and ask to enter new PIN |  |  |
|  | If Yes: User enter PIN code | ATM machine check for its validity |  |  |

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| **Post-Conditions**  **New PIN is store to the database** |

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| **Test Case #: 2** | **Test Case Name: PIN & card verify** |
| **System:**  **ATM** | **Subsystem: Accept PIN and Card** |
| **Designed by:** | **Design Date:** |
| **Executed by:** | **Execution Date:** |
| **Short Description:** Verify the ATM machine accepts card and PIN details |  |

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| **Pre-Conditions**  **User have valid ATM card and access to it**  **User must have setup PIN already** |

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| Step | Action | Expected System Response | Pass/  Fail | Comment |
| 1 | User Enter ATM card | System should request for PIN |  |  |
| 2 | User enter valid PIN | User can now preform transactions |  |  |
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| **Test Case #: 3** | **Test Case Name: Card Expired** |
| **System: ATM** | **Subsystem: Card Validity** |
| **Designed by:**  Usama | **Design Date: 8/10/20** |
| **Executed by:** | **Execution Date:** |
| **Short Description:** Verify the error message by inserting an invalid card (Expired Card) |  |

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| **Pre-Conditions**  **User have a valid ATM card and access to the machine**  **User enter Expired ATM card** |

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| Step | Action | Expected System Response | Pass/  Fail | Comment |
| 1 | Insert expired ATM card | Checks for the validity of the card if current data exceed card life time it shows error message |  |  |
| 2 | Click Exit to eject Card | Machine returns card back to the user |  |  |

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| **Post-Conditions**  **Nothing** |

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| **Test Case #: 4** | **Test Case Name:** |
| **System: ATM** | **Subsystem: Cash Withdraw** |
| **Designed by:**  Usama | **Design Date: 8/10/2020** |
| **Executed by:** | **Execution Date:** |
| **Short Description:** Verify the cash withdrawal functionality by entering an amount greater than per day limit |  |

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| **Pre-Conditions**  **User have valid ATM card**  **Already setup PIN** |

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| Step | Action | Expected System Response | Pass/  Fail | Comment |
| 1 | Insert ATM card | Request for PIN |  |  |
| 2 | Enter valid PIN | Request to perform action |  |  |
| 3 | Request for withdraw amount | System display or request to enter withdrawal amount |  |  |
| 4 | Enter arbitrary amount | Validate against total and per day limit amount  If Exceeds Per Day Limit: Show error message and request to reenter again. |  |  |
|  |  |  |  |  |