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| General Information | |
| Use Case ID Number : UC100  Subject Area : Register Login  Description : User Logs into a Register | Responsible Analyst : Ryan Williams |

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| Requirements/Feature Trace | |
| **REQ#** | Requirements Name and / or Short Description |
| 1 | Requirement to allow employees to login to the Register. |
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| Revision History | | |
| Author | **Date** | **Comments** |
| Ryan Williams | 2/29/2016 | First draft |
| Skyler Swenson | 3/14/2016 | Added missing actors. |
| Phillip Smith | 3/14/2016 | Added missing requirement, changed steps to make sense |
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| **Insertion Points in other Use Cases** | | |
| Use Case Name | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
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| **Actors** | | |
| **Actor Name** | **P/S** | **Brief Description** |
| Cashier | P | Cashiers have user accounts to log into the system to conduct a sale |
| Register | S | The register the cashier is attempting to log into. |
| Database | S | The database the register communicates with. |

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| **Pre-Conditions** | |
| # | Description |
|  | Register “Login” screen is displayed |

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| **Start Stimulus** |
| User logs into the register |

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| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt UC Name/Number** | **Bus Rule(s)#** |
| 01 | Register asks for username and password |  |  |
| 02 | User enters username and password |  |  |
| 03 | User clicks login or hits enter |  |  |
| 04 | Login window sends a request of information based on username and password to the database |  |  |
| 05 | Database sends valid or invalid response |  |  |
| 06 | Permissions compared |  |  |
| 07 | Valid employee and permissions sufficient |  |  |
| 08 | User is allowed to login |  |  |

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| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds/Alt Use Case #** |
| Invalid Password | Register displays message and then returns to “Login” screen |  |
| Invalid Username | Register displays message and then returns to “Login” screen |  |
| Not Connected to Database | Register displays message and then returns to “Login” screen |  |

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| Post-Conditions | |
| **#** | **Description** |
| 1 | Register window is started |
| 2 | Transaction is started |

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| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Employee | Cashier | Username, ID, etc |
| LoginInfo | Holds login information | Username, password, etc |

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| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Should a cashier only be signed in on one register? | 2/29/16 | Ryan Williams |  |  |
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| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | No current touch ability | 2/29/16 | Ryan Williams |  |  |
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| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
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| Frequency of Execution |
| **Frequency:**  Minimum: 20 Maximum: 100 Average: 50 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Day:  Other: |

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| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 04/07 | seconds | 1 | 3 | 5 | Login response needs to happen within a few seconds |
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| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 04/07 | bytes |  | 4k |  |  |
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| **Alternate Course General Information** |
| Alternate Course Name:  Alternate Course Number:  Parent Use Case Name:  Parent Use Case Number:  Description:  Reason for Execution: Non Exception:  Exception:  Exception #:  Start(Trigger) Stimulus:  Type of Execution (optional): Manual:  Automatic: |

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| Insertion Point |
| Step Inserted After |
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| Pre-Conditions | |
| 1. |  |
| 2. |  |

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| Alternate Course Steps | | | |
| **#** | **Step Description** | **Adds/Alt Use Case #** | **Business Rule(s)#** |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |

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| Post-Conditions | |
| 1. |  |
| 2. |  |