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| General Information | |
| Use Case ID Number : UC103  Subject Area : Register Program  Description : Scanning a coupon | Responsible Analyst : Jacob Asmuth |

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| Requirements/Feature Trace | |
| **REQ#** | Requirements Name and / or Short Description |
| 4.1 | System will display price of item scanned |
| 4.3 | System will show any coupons savings |
| 6 | The system shall identify barcodes |
| 6.1 | The system shall obtain a unique item ID from a scanned bardcode |
| 6.2 | The system shall retrieve product information from the item ID |

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| Revision History | | |
| Author | **Date** | **Comments** |
| Jacob Asmuth | 3/13/2016 | First draft |
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| **Insertion Points in other Use Cases** | | |
| Use Case Name | **Use Case Number** | **Step Inserted After** |
| Scanning an item | 102 | Exception #1 |
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| **Actors** | | |
| **Actor Name** | **P/S** | **Brief Description** |
| Employee | P | Scan the item |
| Customer | P | Supplies the item to be scanned |
| Barcode scanner | S | Sends barcode information to program |

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| **Pre-Conditions** | |
| # | Description |
| 1 | Valid employee login |

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| **Start Stimulus** |
| Customer comes to register with items to purchase, and coupons for those items |

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| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt UC Name/Number** | **Bus Rule(s)#** |
| 01 | Customer comes to register with items to purchase |  |  |
| 02 | Employee scans coupon |  |  |
| 03 | Coupon info is retrieved from the database |  |  |
| 04 | Coupon is stored locally and applied to all relevant items |  |  |

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| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds/Alt Use Case #** |
| Coupon not found in database | Display error message that coupon or item not found |  |
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| Post-Conditions | |
| **#** | **Description** |
| 1 | Coupon and items it applies to is stored in memory |
| 2 | Items have had their price appropriately reduced |

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| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
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| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Coupons and item barcodes do not collide | 3/14/2016 | Jacob Asmuth |  |  |
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| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 |  |  |  |  |  |
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| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
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| Frequency of Execution |
| **Frequency:**  Minimum: 0 Maximum: 60 Average: 15 (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 | 2-4 | Seconds | 0.5 | .5 | 1 | Coupon must display and apply in under a second |
| 2 |  |  |  |  |  |  |  |
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| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
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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. |  |