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| General Information | |
| Use Case ID Number: UC140  Subject Area: Admin & Register Programs  Description: Scale Functionality | Responsible Analyst: Phillip Smith |

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| Requirements/Feature Trace | |
| **REQ#** | Requirements Name and / or Short Description |
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| Revision History | | |
| Author | **Date** | **Comments** |
| Phillip Smith | 5/9/2016 | First draft |
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| **Insertion Points in other Use Cases** | | |
| Use Case Name | **Use Case Number** | **Step Inserted After** |
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| **Actors** | | |
| **Actor Name** | **P/S** | **Brief Description** |
| User | P | The person using the system |
| Admin / Register programs | S | The program |
| Scale Interface | S | The scale interface class |
| Scale | S | The scale itself |

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| **Pre-Conditions** | |
| # | Description |
| 1 | Cashier is logged in |
| 2 | Scale is plugged in and turned on |
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| **Start Stimulus** |
| Cashier puts an item to scan on the scale, or Manager puts an item on the scale to enter into the system. |

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| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt UC Name/Number** | **Bus Rule(s)#** |
| 01 | Place item on scale |  |  |
| 02 | Register / Admin program retrieve data from scale interface |  |  |
| 03 | Scale interface connects to scale and retrieves data |  |  |
| 04 | Retrieved weight is displayed on screen and available for processing |  |  |
| 05 | Retrieved weight is used to calculate price of weight-based items such as produce |  |  |

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| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds/Alt Use Case #** |
| Scale is off or not connected | Weight is displayed as null |  |
| Scale is reading a negative number and needs to be recalibrated | Weight is displayed as “neg” or “-1” depending on what format the data is requested in |  |
| Scale is overloaded (item too heavy for scale) | Weight is displayed as “ow” or null depending on what format the data is requested in |  |

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| Post-Conditions | |
| **#** | **Description** |
| 1 | User exits the program |

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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** |
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| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Weight conversion from scale KG mode to data Lb mode & weight conversion from scale Lb mode to data KG mode are both erroneous by about 1% | 5/9/2016 | Phillip Smith |  |  |
| 2 | Overweight condition is not yet taken into account | 5/9/2016 | Phillip Smith |  |  |
| 3 | Currently only has support for 1 model of scale. Other scales will have to be specially added. | 5/9/2016 | Phillip Smith |  |  |

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| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
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| Frequency of Execution |
| **Frequency:**  Minimum: 0 Maximum: 14 Average: 1 (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 |  |  | seconds |  |  | 2 | Don’t want user to swipe card twice |

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| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 |  |  |  |  |  |  |

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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. |  |