**Tutorial 3**

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| Use Case ID | 01 |
| Use Case Name | Request for item |
| Use Case Description | Request an item from the vending machine |
| Actors | Customer |
| Pre Condition | Display available items |
| Post Conditions | 1. Receive confirmation from the customer whether the correct product was chosen 2. Update the stock database |
| Path |  |
| Primary Path | 1.0 The customer requests for an item.   * 1. The vending machine choses the correct item.   2. The machine displays a message to confirm whether the correct item was chosen. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a |
| Assumption | The customer knows how to select an item from the vending machine |

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| Use Case ID | 02 |
| Use Case Name | Pay money |
| Use Case Description | The Customer pays the required amount |
| Actors | Customer |
| Pre Condition | 1. The customer has approved that the selected item was properly identified by the user. 2. The customer has input the quantity of items required. |
| Post Conditions | The Vending Machine calculates the balance that should be given back to the Customer |
| Path |  |
| Primary Path | 2.0 The Vending Machine requests money for selected items   * 1. The Customer inputs cash into the Vending Machine   2. The Vending Machine accepts the money paid by the customer |
| Alternate Path | 2.0 The Vending Machine requests money for selected items by cash  2.1 The Customer inputs his card into the Vending Machine  2.2The Customer authorizes the requested amount to be paid to the Vending Machine   * 1. The Vending Machine accepts the money paid by the customer |
| Exception Path | 2.0 & 2.1 have been completed  2.2 The cash that was input by the customer wasn’t adequate.  2.3 The Vending Machine displays a message, “The amount provided isn’t sufficient” |
| Assumption | n/a |

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| Use Case ID | 03 |
| Use Case Name | Receive item |
| Use Case Description | The Customer receives the items requested |
| Actors | Customer |
| Pre Condition | The customer has paid the adequate amount requested by the Vending Machine. |
| Post Conditions | The Vending Machine calculates the balance that should be given back to the user. |
| Path |  |
| Primary Path | 3.0 The Vending Machine outputs the items that the Customer has paid for   * 1. The Customer obtains the products requested. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a |
| Assumption | The Vending Machine had the items requested by the Customer |

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| Use Case ID | 04 |
| Use Case Name | Receive balance money |
| Use Case Description | The Customer receives balance money |
| Actors | Customer |
| Pre Condition | The customer had paid more than the requested amount by the Vending Machine. |
| Post Conditions | n/a (not applicable) |
| Path |  |
| Primary Path | 4.0 The Vending Machine notifies the customer that there is a balance to be collected  4.1 The Vending Machine outputs the balance money   * 1. The Customer obtains the balance money from the Vending Machine |
| Alternate Path | n/a (not applicable) |
| Exception Path | 4.0 The Vending machine notifies the customer that there is no balance to be collected. |
| Assumption | The Vending Machine has the required balance money in cash to give the user. |

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| Use Case ID | 05 |
| Use Case Name | Restock the machine |
| Use Case Description | The Supplier restocks the Vending Machine with products. |
| Actors | Supplier |
| Pre Condition | Customers have used the vending machine to purchase products. |
| Post Conditions | Update the stock database |
| Path |  |
| Primary Path | 5.0 The Supplier unlocks the Vending Machine  5.1 The Supplier restocks the machine with products. |
| Alternate Path | n/a (not applicable) |
| Exception Path | 5.0 The Supplier unlocks the Vending Machine.  5.1 The Supplier locks the Vending Machine. |
| Assumption | The Supplier has the products required to restock the Vending Machine |

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| Use Case ID | 06 |
| Use Case Name | Collect money |
| Use Case Description | The Supplier collects the money |
| Actors | Supplier |
| Pre Condition | The Vending Machine has money that has been paid by the customers. |
| Post Conditions | n/a |
| Path |  |
| Primary Path | 5.0 The Supplier unlocks the Vending Machine  5.1 The Supplier gets the money from the Vending machine. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a |
| Assumption | n/a |