**Online Music Store Management System**

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| Use Case ID | 01 |
| Use Case Name | Add new item |
| Use Case Description | Adding a new item into the music store |
| Actors | Manager |
| Pre Condition | 1. Display available managerial options. 2. The manager must’ve selected the “add new item” option. |
| Post Conditions | The manager should get the option to choose between a new CS item/ a new Vinyl item. |
| Path |  |
| Primary Path | 1. The manager requests the system to add a new item    1. The system requests the manager to choose whether to add a CD or a Vinyl |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | n/a |

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| Use Case ID | 02 |
| Use Case Name | Add CD |
| Use Case Description | Adding a new CD item into the music store |
| Actors | Manager |
| Pre Condition | The manager must’ve selected the “Enter CD” option. |
| Post Conditions | 1. The system should save the added item with its information |
| Path |  |
| Primary Path | 1. The manager adds all the required information of the new CD   2.1 The system saves the information relevant to the CD.  2.2 The main menu is re-prompted. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | n/a |

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| Use Case ID | 03 |
| Use Case Name | Add Vinyl |
| Use Case Description | Adding a new Vinyl item into the music store |
| Actors | Manager |
| Pre Condition | The manager must’ve selected the “Enter CD” option. |
| Post Conditions | 1. The system should save the added item with its information |
| Path |  |
| Primary Path | 1. The manager adds all the required information of the new Vinyl   3.1 The system saves the information relevant to the Vinyl.  3.2 The main menu is re-prompted |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | n/a |

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| Use Case ID | 04 |
| Use Case Name | Delete Item |
| Use Case Description | Delete a selected item form the music store |
| Actors | Manager |
| Pre Condition | 1. Items should have been added to the music store  2. Display available managerial options.  3. The manager should have selected the “delete item” option from the main menu  4. The main menu is prompted |
| Post Conditions | All the information related to the item chosen is deleted |
| Path |  |
| Primary Path | 4.0 The system prompts for an ‘item ID’ to be deleted  4.1 The manager enters an item ID  4.2 The system deletes the entry related to the CD  4.2 The system displays the number of remaining spaces  4.3 The system displays the type of the item that has been deleted  4.4 The system re-prompts the main menu |
| Alternate Path | 4.0 & 4.1 have been completed  4.2 The system deletes the entry related to the Vinyl  4.3, 4.4 are executed |
| Exception Path | 4.0 & 4.1 have been completed  4.2 The system displays that there is no related entry to the item ID entered. |
| Assumption | When an item is deleted, all information relevant to that item is deleted |

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| Use Case ID | 05 |
| Use Case Name | Identify remaining spaces |
| Use Case Description | The manager should be able to identify the remaining number of free spaces in the music store |
| Actors | Manager |
| Pre Condition | The manager should have added an item to/ deleted an item from the music store. |
| Post Conditions | The main menu should be re-prompted |
| Path |  |
| Primary Path | 5.0 The system displays the remaining number of spaces |
| Alternate Path | 5.0 The system displays a message that there are no available spaces |
| Exception Path | n/a (not applicable) |
| Assumption | The system can keep track of the count of the number of items entered. |

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| Use Case ID | 06 |
| Use Case Name | Enter Item ID |
| Use Case Description | Entering the item ID of item to be chosen |
| Actors | Manager, Customer |
| Pre Condition | 1. Items should have been added to the music store  2. Display available managerial options. |
| Post Conditions | 1. The item chosen should be deleted with its information  2. Display the number of remaining spaces  3. Display the type of the item that has been deleted |
| Path |  |
| Primary Path | 4.0 The manager selects the “Delete item” option from the main menu  4.1 The system prompts for an ‘item ID’ to be deleted  4.2 The manager enters an item ID |
| Alternate Path | 4.0 The manager selects the “Buy item” option from the main menu  4.1 The system prompts for an ‘item ID’ to be bought  4.2 The user (manager/ customer) enters an item ID |
| Exception Path | n/a (not applicable) |
| Assumption | n/a (not applicable) |

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| Use Case ID | 07 |
| Use Case Name | Print list of items |
| Use Case Description | Printing the list of items in-store, with their information |
| Actors | Manager |
| Pre Condition | 1. Items should have been added to the music store  2. Display available managerial options.  3. The manager should have selected the “print list of items” option from the main menu  4. The main menu is prompted |
| Post Conditions | The information is clearly read and understood by the manager |
| Path |  |
| Primary Path | 7.0 The system displays the item ID, type of item and the title of all the items in store |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | The manager can read the information displayed |

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| Use Case ID | 08 |
| Use Case Name | Sort items in ascending order |
| Use Case Description | Sorting the items in ascending order of title |
| Actors | Manager |
| Pre Condition | Items should have been entered and stored. |
| Post Conditions | Sorted items should be retrievable |
| Path |  |
| Primary Path | 8.0 The user requests to sort items  8.1 The system sorts items in ascending order. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | Items are always sorted in ascending order |

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| Use Case ID | 09 |
| Use Case Name | Open GUI |
| Use Case Description | Opening the Graphical User Interface, to see all the information for each item |
| Actors | Manager |
| Pre Condition | Items have been entered and stored. |
| Post Conditions | The information is clearly read and understood by the manager |
| Path |  |
| Primary Path | 9.0 The manager requests to open the GUI.  9.1 The GUI is opened by the system  9.2 The system shows the list of items in store with the main information. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | All the information added to the system can be accessed by the GUI |

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| Use Case ID | 10 |
| Use Case Name | Search for item by title |
| Use Case Description | Information regarding items can be searched by title |
| Actors | Manager |
| Pre Condition | 1. Items have been entered and stored.  2. The GUI must be open. |
| Post Conditions | 1. The information is clearly read and understood by the manager  2. The information relevant to the item searched remains in the system. |
| Path |  |
| Primary Path | 10.0 The system gives the option to search for an item’s information by prompting for the item title.  10.1 The manager enters the item title of the item required to be found.  10.2 The system displays information relevant to the item chosen. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | All the information added to the system can be accessed by the GUI |

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| Use Case ID | 11 |
| Use Case Name | Buy item |
| Use Case Description | Selecting items to buy |
| Actors | Manager / Customer |
| Pre Condition | 1. Items have been entered and stored.  2. The main menu is displayed by the system |
| Post Conditions | The required quantity of the chosen item is prompted by the system. |
| Path |  |
| Primary Path | 11.0 The system prompts the user to choose an option from the main menu  11.1 The user (manager/ customer) chooses the “Buy item” option.  11.2 The system prompts the user to enter the item ID of the required item.  11.3 The user (manager/ customer) enters the item ID of the required item. |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | There’s an adequate number of items in store |

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| Use Case ID | 12 |
| Use Case Name | Buy more than one copy |
| Use Case Description | Selecting more than one copy of an item, to buy |
| Actors | Manager / Customer |
| Pre Condition | 1. Items have been entered and stored.  2. The user (manager/ customer) has chosen the “Buy item” option from the main menu. |
| Post Conditions | The system uses the information of the purchased item, to generate a report |
| Path |  |
| Primary Path | 12.0 The system prompts the user whether more than one copy of the item chosen is required.  12.1 The user (manager/ customer) enters the requirement (yes/ no) |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | There’s an adequate number of items in store |

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| Use Case ID | 13 |
| Use Case Name | Enter number of copies |
| Use Case Description | Entering the number of copies of the item chosen. |
| Actors | Manager / Customer |
| Pre Condition | The user (manager/ customer) has chosen the option to buy more than one copy |
| Post Conditions | 1. The total cost of all the items chosen will be displayed.  2. The system uses the information of the purchased item, to generate a report |
| Path |  |
| Primary Path | 13.0 The system prompts the user to enter the number of copies required.  13.1 The user (manager/ customer) enters the number of copies required.  13.2 The system adds up the copies into the shopping cart.  13.3 The system calculates the total cost of items in the shopping cart. |
| Alternate Path | 13.0 has been completed.  13.1 the user (manager/ customer) enters ‘1’ as the number of copies required.  13.2 The system adds one copy into the shopping cart.  13.3 The system identifies the cost of a chosen item as the total cost. |
| Exception Path | 13.0 has been completed  13.1 The user (manager/ customer) enters ‘0’ as the number of copies required.  13.2 The system doesn’t add any copy of the chosen item into the shopping cart  13.3 The system assigns the total cost to be zero. |
| Assumption | There’s an adequate number of copies of the chosen item as requested, in store |

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| Use Case ID | 14 |
| Use Case Name | Generate report |
| Use Case Description | Generating a report of the items bought |
| Actors | Manager/ customer |
| Pre Condition | The user (manager/ customer) should have purchased at least one item |
| Post Conditions | A file is written with the information provided to generate the report. |
| Path |  |
| Primary Path | 14.0 The user (manager/ customer) buys an item  14.1 The system writes the title, ID, price & selling time/date into a file |
| Alternate Path | n/a (not applicable) |
| Exception Path | n/a (not applicable) |
| Assumption | All the information added to the system can be accessed by the GUI |