

Flow of Events

Use Case: Add a new Customer

Actors: Clerk

Goal: To add a customer to the list of customers

Description: The add a new customer use case begins when the clerk chooses the Add a New Customer button from the Customer's pane. A new pane appears containing fields for the clerk to fill in the new customer's name, address, city, state, zip and phone number. The pane stays open until the clerk clicks "Cancel" or "Submit". Once submit is clicked, the system automatically issues a unique customer id number. The customer is added to the end of the list of customers in the Customer Pane. If the "Cancel" button is clicked, no changes are made and it returns to the Customer Pane.

Use Case: Add a new Title

Actors: Manager

Goal: To add a title

Description: The add a new title use case begins when the manager chooses the Add a New Title button from the Inventory pane. A new pane appears containing fields for the manager to fill in the new title's name and select a type from the combo box. The pane stays open until the manager clicks "Cancel" or "Submit". Once submit is clicked, the title is added to the end of the inventory list in the Inventory Pane. If the "Cancel" button is clicked, no changes are made and it returns to the Inventory Pane.

Use Case: Add a new Copy

Actors: Manager

Goal: To add a copy

Description: The add a new copy use case begins when the manager chooses the Add a New Copy button with a title selected from the list of Titles from the Inventory pane. If a title is not selected from the list, an exception is thrown with the message "Please select a title from the list". The system automatically issues a unique copy id. The list of Titles is updated and its number of copies increases by 1.

Use Case: Customer Report

Actors: Manager

Goal: To produce a customer report

Description: The customer report use case begins when the manager chooses one of the customer report buttons (Customer Report for All Customers, Customer Report for Customers that have one or more overdue items, and Customer Report for customers that

owe one or more late fees) from the Management Pane. The report will contain a customer id, name, address, city, state, zip, and phone number. It will also list the total number of items currently being rented. It will also contain a list of items (id, title, and due date) that are currently overdue.

Use Case: Title Report

Actors: Manager

Goal: To produce a title report

Description: The title report use case begins when the manager chooses the Title Report button from the management pane. The report will contain a title name and type. It will also include a total number of copies currently owned. It will specifically include a total number of copies currently rented out, on hold, and currently in stock.

Initial Functional Test Case Specification

Use Case	Function being Tested	Initial System State	Input	Expected Output
Add a new Customer	The “New Customer” Pane appears	Customer Pane (either with 1 or 0 customers selected)	Clicks the Add New Customer button	The “New Customer” Pane Appears with blank fields
Add a new Customer	A Field is blank and submit is clicked	New Customer pane with one or more blank fields	Clicks the Submit button	An exception occurs, “Please fill in all fields”
Add a new Customer	User clicks “Cancel” button	New Customer pane with fields blank or filled	Clicks the Cancel button	Return to Customer Pane with no changes saved
Add a new Customer	User clicks “Submit” button	New Customer pane with all fields filled	Clicks the Submit Button	Returns to Customer Pane with changes saved (Customer added to list of Customers and object is created)
Add a new Title	The “New Title” Pane appears	The Inventory Pane (either with 1 or 0 titles selected)	Clicks the Add New Title Button	The “New Title” Pane Appears with blank fields
Add a new Title	A Field is blank and submit is clicked	New Title pane with one or more blank fields	Clicks the Submit button	An exception occurs, “Please fill in all fields”
Add a new Title	User clicks “Cancel” button	New Title pane with fields blank or filled	Clicks the Cancel button	Return to Inventory Pane with no changes saved
Add a new Title	User clicks “Submit” button	New Title pane with all fields filled	Clicks the Submit Button	Returns to Inventory Pane with changes saved (Title added to list of Titles)
Add a new Copy	User clicks “Add Copy” button	Inventory Pane with no title selected	Clicks Add Copy	An exception occurs, “Please select a title from the list”
Add a new Copy	User clicks “Add Copy” button	Inventory Pane with title selected	Clicks Add Copy	A new Game Disk/DVD object has been created. The number of copies in

				the title list has been updated by 1.
Customer Report	User clicks "Customer Report for All Customers"	Management Pane	Clicks Customer Report for All Customers	A report is produced with all customers' information, currently rented totals, and currently overdue items.
Customer Report	User clicks "Customer Report for Customers that have 1 or more overdue items"	Management Pane	Clicks Customer Report for Customers that have 1 or more overdue items	A report is produced with all customers' that have overdue items. It shows each of their information, currently rented totals, and currently overdue items.
Customer Report	User clicks "Customer Report for Customers that owe 1 or more late fees"	Management Pane	Clicks Customer Report for Customers that owe 1 or more late fees	A report is produced with all customers' that have late fees. It shows each of their information, currently rented totals, and currently overdue items.
Title Report	User clicks "Title Report"	Management Pane	Clicks Title Report	A report is produced with all titles and their information. It also includes a total number of copies owned, number of copies rented out, number of copies on hold, and number of copies on the shelf.