

Project Milestone 2-1
Flow of Events

2a. Add a New Customer

1. A customer needs/wants a member card.
2. The clerk takes the customers name, address and phone number and inputs it into the system.
3. The clerk gives the customer a card with a unique ID that was produced by the system.

3a. Add a New Title

1. A new title becomes available for sale.
2. The clerk inputs the name of the title, and the type of title into the system.
3. The system returns a unique title ID for that title.

4a. Add one or more newly acquired DVDs and/or cartridges

1. A new shipment of DVDs and/or cartridges comes in.
2. For each newly acquired item of the same title, the clerk inputs the corresponding title ID (creating a new title in the system, if necessary).
3. The clerk then inputs the number of copies now available.
4. The system generates unique IDs for each new rentable item and the clerk associates them with the physical item appropriately.

7a-c. Produce a Customer Report (without fine information)

1. Management requests a customer report.
2. The clerk makes a system inquiry for a customer report.
3. The system returns the name, address, phone number, total number of items the customer is renting, and information concerning currently overdue items for each customer.

8a-b. Produce a Title Report (without reservation information)

1. Management requests a customer report.
2. The clerk makes a system inquiry for a title report.
3. The system returns the name, other basic information, total number of copies owned, which is broken up into total copies rented, on hold, and in stock, for each title.

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Test Cases

Use Case	Function Being Tested	Initial System State	Input	Expected Output
Add a Customer	System adds a customer to the store database, generating a unique ID and storing the customer information that is input.	On and idle.	Customer name, address, and phone number.	System records the new customer in the database, and generates a unique ID associated with that customer.
Add a Title	System adds a title to the store database, generating a unique ID and storing the title information that is input.	On and idle.	Title name & type.	System records the new title in the database, and generates a unique ID associated with that title.
Add one or more newly acquired DVDs and/or cartridges.	System records new copies of a title by generating new RentableItems with unique IDs and the title of the input title ID.	On and idle.	Title ID, number of total copies now owned.	System records the new total number of copies for the input title, and generates new RentableItems with unique IDs as necessary.

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Use Case	Function Being Tested	Initial System State	Input	Expected Output
Produce a customer report	System produces a customer report with the required information.	On and idle.	Request for a customer report.	List of every customer in the system records, including each customer's name, address, phone number, total items currently rented, information about overdue items.
Produce a title report	System produces a title report with the required information.	On and idle.	Request for a title report.	List of every title in the system records, including each title's name and basic information, as well as total number of copies owned, broken up by total copies currently rented, on hold and in stock.