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Flow of events

Rent:

A rent is started when a customer brings one or more items to the front desk to be rented. If the customer is not in the database, the add customer extension will be called. Otherwise the customer presents his customer ID and the Clerk having selected “rent” will be prompted to enter the customer's ID. The system then will initiate the Lookup Customer case. The clerk then adds the appropriate items to the Customer's rental account. The system takes note that the item is currently rented by the customer by using the Edit Item Details case. The customer is charged for the rental and late fees if applicable, and walks away happily with their movies/games/popcorn.

Return:

A Return is initiated when the Clerk receives an item which is currently “out.” The Clerk selects “return” and is prompted to enter the item's ID number. The system checks to see whether the item is late, if it is late, the system charges a late fee to the Customer via the Edit Customer case. The system then prompts the clerk to receive payment if possible. If payment is received, the Accept Late Fee extension is used. The system then checks for reservations on the item. If the item is reserved, it is placed on hold, otherwise it is marked as available and put on the shelf Using the Edit Item Details extension.

Look Up Item:

The Look Up Item case is initiated when someone needs to check the status and/or details of an item. The clerk is prompted for the title by the system. When the title is entered, the system displays relevant information to the clerk. Information includes title and checkout statements.

Look Up Customer:

Look Up Customer is initiated when a use case asks for specific details about a customer's account including: name, address, phone number, outstanding fines, and current rentals, etc, etc.

Add Customer:

Add Customer is initiated when a new customer requests permission to rent from the store. Their information is added to the system and they are given a unique customer ID.

Edit Customer:

Edit Customer is initiated when information about a customer needs to be changed either by the clerk or by the system. In the case of the clerk, they will be prompted for all the appropriate information, and the system will record the changes in the Customer's entry in the database. In the case of the system, it changes all the details necessary to realize the original Case.

Edit Item Details:

The Edit Item Details case is initiated by other cases when the status of an item needs to be changed. The system makes all the appropriate changes to mark the new status of an item. I.E. In, out, or reserved.

#### Accept Late Fee:

Accept Late Fee is initiated when a customer chooses to pay for one or many late fees. All late fees which are paid for are recorded using the Edit Customer case, and are recorded for later inspection.

#### Handle Reservation:

Handle Reservation is initiated when an item is returned. The system checks whether there is a hold on the item by using the Look Up Item case and informs the clerk whether the item is reserved or not.

#### Start System:

Start system is initiated when the system has been in an off state. The manager enters the proper credentials, and the saved system state is loaded.

#### Shut system down:

Shut system down is initiated when the manager decides to turn off the system. The system saves its current state and powers down.

#### Save system:

Save system is initiated whenever the manager wishes to save information to long term storage. The current system state is recorded into a file specified by the manager, and can be loaded at a later time.