

Note: This document serves as a high-level overview and may not cover all rules or key features. Its purpose is to offer additional clarity for you and your team. If you have any questions, please see your instructor.

Rentals

- Employees must be logged onto the system to access the Rentals subsystem.
- Only authenticated users within the **Rental Role** can access the subsystem.
- A customer record is mandatory before a rental is processed.
- Each equipment rental is independent of previous rentals.
- Coupons must be presented at the time of rental.
- Equipment rentals are based on full sets; no partial returns.
- If equipment has different rental periods, separate rental contracts are created.
- The smallest rental period is a half-day.
- Customers must be in good standing to rent equipment.

Renting

- A rental is processed as one bulk transaction.
- Rentals can include multiple pieces of equipment.
- Only available equipment can be added to a rental.
- Rental rate is charged daily.
- Default rental period is one day, but can be adjusted during return.
- Default payment type is credit card.
- Rental date for taking the equipment is the current date and time.

Returns

- Equipment is marked available only if returned in clean working order.
 - Incoming condition of the equipment should be recorded.
 - Payment types include 'Money', 'Credit', and 'Debit'.
 - Discounts from coupons are applied to the rental pricing.
 - Subtotals and taxes are calculated before applying the coupon discount.
 - Rental return date is the current date and time.
 - Rentals are updated in bulk, including relevant details and equipment status.
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Images (Samples)

Rentals

Employee: Bookem, Donna

Customer Phone Number:

Coupon Code:

Customer: Smith, Sam
Address: 12345 - 67 St Edmonton

| ID | Description | Serial # | Rate | <input data-bbox="743 653 776 695" type="button" value="+"/> |
|--|-------------------------------|------------|---------|--|
| 2 | Dewalt Combined Power Set | 5467222RT4 | 24.9500 | <input type="checkbox"/> |
| 4 | Dewalt Combined Power Set | 5467772RT4 | 24.9500 | <input type="checkbox"/> |
| 6 | Robi Multi Speed Builders Kit | RE567A4B4 | 20.9500 | <input type="checkbox"/> |
| 7 | Echo 21.2 CC Tiler/Cultivator | 1254TT589 | 18.9500 | <input type="checkbox"/> |
| 8 | Echo 21.2 CC Tiler/Cultivator | 1254TT234 | 18.9500 | <input type="checkbox"/> |
| <div><input type="button" value="Previous Page"/> Page 1 <input type="button" value="Next Page"/></div> | | | | |

| <input data-bbox="857 653 889 695" type="button" value="-"/> | ID | Description | Serial # | Rate | Condition |
|--|----|-------------------------------|------------|---------|----------------------|
| <input type="checkbox"/> | 1 | Dewalt Combined Power Set | 5467988RT4 | 24.9500 | <input type="text"/> |
| <input type="checkbox"/> | 5 | Robi Multi Speed Builders Kit | RE567A2E4 | 20.9500 | <input type="text"/> |

Rental Returns

Employee: Bookem, Donna

Customer Phone Number:

Search

Rental Number:

0

Search

Clear

Customer Address Rental Date

Smith, Sam 12345 - 67 St 10/11/2023 2:48:41 PM

VIEW

10/11/2023 2:48:41 PM ☐ Credit ☐ Debit ☐ Cash Days Out: 0

| ID | Description | Serial # | Rate | Out Condition | In Condition | Comment | Damage Charge | Available |
|-----|-------------------------------|------------|-------|---------------|---------------|---------|---------------|--------------------------|
| 876 | Dewalt Combined Power Set | 5467988RT4 | 24.95 | Good | out on rental | | 0.00 | <input type="checkbox"/> |
| 877 | Robi Multi Speed Builders Kit | RE567A2E4 | 20.95 | Dirty | out on rental | | 0.00 | <input type="checkbox"/> |

Pay

Return Rental

View Models Rental

View models and methods are used as examples, and you are welcome to modify them as needed in your coding example. Please include comments to explain any modifications or choices you make.

```
// Updated Nov 8
// added RentalID
public class CustomerView
{
    public int CustomerID { get; set; }
```

csharp



```
public string LastName {get;set;}
public string FirstName {get;set;}
public string Address {get;set;}
public int RentalID {get;set;}
}
```

csharp



```
public class AvailableEquipmentView
{
    public int RentalEquipmentID { get; set; }
    public string Description { get; set; }
    public string SerialNumber { get; set; }
    public decimal DailyRate { get; set; }
    public string Condition { get; set; }
}
```

csharp



```
public class CouponView // Nov 15
{
    public int CouponID { get; set; }
    public int Discount { get; set; }
    public string Message { get; set; }
}
```

csharp



```
public class RentalsView
{
    public int RentalID { get; set; }
    public int CustomerID { get; set; }
    public int EmployeeID { get; set; }
    public int CouponID { get; set; }
    public decimal SubTotal { get; set; }
    public decimal TaxAmount { get; set; }
    public DateTime RentalDateOut { get; set; }
    public DateTime RentalDateIn { get; set; }
    public string PaymentType { get; set; }
    public List<RentalDetailView> RentalDetails {get; set;}
}
```

csharp 

```
public class RentalDetailView
{
    public int RentalDetailID { get; set; }
    public int RentalID { get; set; }
    public int RentalEquipmentID { get; set; }
    public decimal RentalDays { get; set; }
    public decimal RentalRate { get; set; }
    public string OutCondition { get; set; }
    public string InCondition { get; set; }
    public decimal DamageRepairCost { get; set; }
    public string Comments { get; set; }
}
```

csharp 

```
// Rental
// Required for Deliverable #1
public CustomerView GetCustomerByPhone(string phone)
public List<AvailableEquipmentView> GetEquipments()
public decimal GetCoupon(string coupon)
public RentalsView Rent(RentalsView rental)
```

csharp 

```
// Return
// Updated Nov 8
// updated GetRentalByPhone return List
// updated SelectRentalByCustomer to take a customer ID and return
list
// Required for Deliverable #1
public RentalsView GetRentalByRentalNumber(int rentalid)
public List<RentalsView> GetRentalByPhone(string phone)
public List<RentalsView> SelectRentalByCustomer(int customerID)
public RentalsView Return(RentalsView rental)
```