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
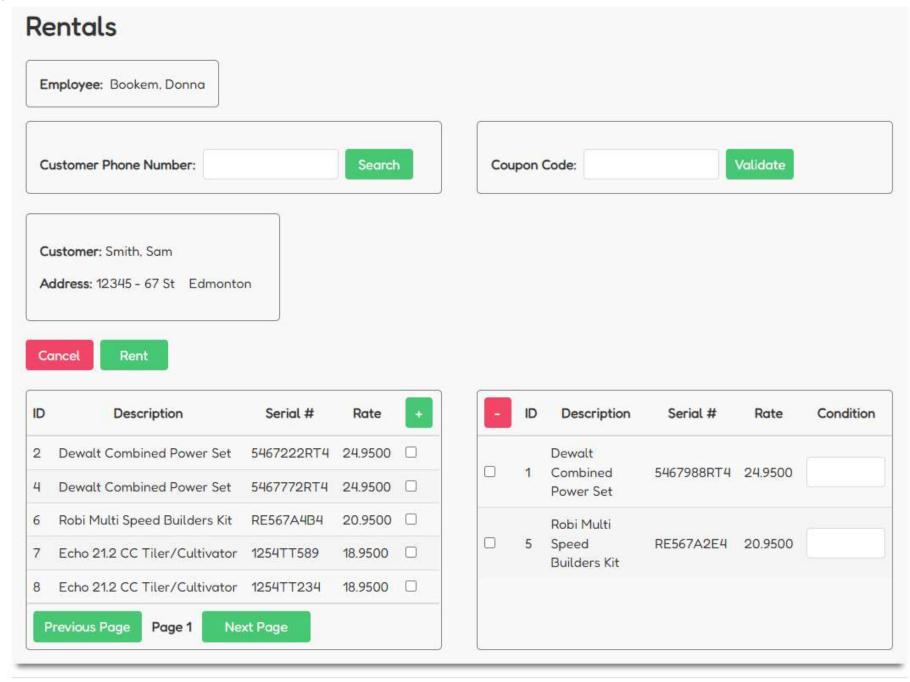
- A rental is processed as one bulk transaction.

- 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.

Images (Samples)

Rentals

Employee: Bookem, Donna

Customer Phone Number: [   ] [Search]

Coupon Code: [   ] [Validate]

Customer: Smith, Sam

Address: 12345 - 67 St   Edmonton

[Cancel] [Rent]

ID	Description	Serial #	Rate	+
2	Dewalt Combined Power Set	5467222RT4	24.9500	☐
4	Dewalt Combined Power Set	5467772RT4	24.9500	☐
6	Robi Multi Speed Builders Kit	RE567A4B4	20.9500	☐
7	Echo 21.2 CC Tiler/Cultivator	1254TT589	18.9500	☐
8	Echo 21.2 CC Tiler/Cultivator	1254TT234	18.9500	☐

[Previous Page] **Page 1** [Next Page]

-	ID	Description	Serial #	Rate	Condition
☐	1	Dewalt Combined Power Set	5467988RT4	24.9500	[ ]
☐	5	Robi Multi Speed Builders Kit	RE567A2E4	20.9500	[ ]

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	☐
877	Robi Multi Speed Builders Kit	RE567A2E4	20.95	Dirty	out on rental		0.00	☐

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.

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

```csharp
        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;} = new(); //  Nov 15
}
```

```csharp
public class RentalDetailView
{
    public int RentalDetailID { get; set; }
    public int RentalID { get; set; }
```

```csharp
        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 bool Available { get; set; } //  Nov 15
        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)
```