

# **Rental System**

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# Introduction

- A program that lets users rent goods
- Has stockpile of wide range of goods
- Reduces human error in stock management and billings
- Generates transaction bills and log all rental/return operations
- Implements dynamic memory management for handling inventory

# Project Preview

## Home Page

- Asks user to rent/return an item
- Shows the items in warehouse available to rent

```
===== Rental Management System =====
1. Rent an Item
2. Return an Item
3. Display Stock (Owner view)
4. Exit
Enter your choice: 1

----- Current Stock -----
1. Bike - Stock: 10, Rate per day: 20.00
2. Car - Stock: 5, Rate per day: 100.00
3. Scooter - Stock: 15, Rate per day: 15.00
-----
Enter the number corresponding to the item you want to rent:
```

# Cont'd

## Renting Process

- Asks the user's details i.e. name and phone no.
- Asks the quantity and duration of renting
- Calculates the total cost of rent

```
----- Current Stock -----  
1. Bike - Stock: 10, Rate per day: 20.00  
2. Car - Stock: 5, Rate per day: 100.00  
3. Scooter - Stock: 15, Rate per day: 15.00  
-----  
Enter the number corresponding to the item you want to rent: 1  
Enter your name: Ram Shah  
Enter your phone number: 1234567890  
Enter quantity to rent: 5  
Enter number of days for renting: 10  
  
Rental processed successfully.  
Total Cost: 1030.00 (Interest Fee: 30.00 if applicable)
```

# Cont'd

## Billing Process

- Displays the user's details
- Calculates the total cost and displays it
- Adds 1% interest if duration of rent exceeds 7 days

```
|----- Rental Service Bill -----|
Customer Name: Ram Shah
Phone Number : 1234567890
Transaction : Rent
Item       : Bike
Quantity   : 5
Days       : 10
Base Cost  : 1000.00
Interest Fee : 30.00
Total Cost : 1030.00
-----
```

# Cont'd

## Returning Process

- Displays the items available in stock
- Asks the user for the item to return

```
===== Rental Management System =====
1. Rent an Item
2. Return an Item
3. Display Stock (Owner view)
4. Exit
Enter your choice: 2

----- Current Stock -----
1. Bike - Stock: 5, Rate per day: 20.00
2. Car - Stock: 5, Rate per day: 100.00
3. Scooter - Stock: 15, Rate per day: 15.00
-----
Enter the number corresponding to the item you are returning: 1
```

# Cont'd

## Returning Process

- Asks the user's details and items to be returned
- Updates the stock available in warehouse

```
----- Current Stock -----  
1. Bike - Stock: 5, Rate per day: 20.00  
2. Car - Stock: 5, Rate per day: 100.00  
3. Scooter - Stock: 15, Rate per day: 15.00  
-----  
Enter the number corresponding to the item you are returning: 1  
Enter your name: Ram Shah  
Enter your phone number: 1234567890  
Enter quantity to return: 5  
Enter number of days you kept the item: 10  
  
Return processed successfully.  
Total Cost: 1030.00 (Interest Fee: 30.00 if applicable)
```

# Scope and Applications

- Program can be easily extended
- Usable by people of all age group
- Allows easier circulation of goods in warehouse
- No place for error as all calculations are computed digitally
- Penalty interest ensures consumers return goods in given time period



*Thank  
you*

