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OOPS WITH JAVA

MINI PROJECT : VISITOR MANAGEMENT

```
import java.util.Scanner;

class Visitor {
    private String name;
    private String contactNumber;
    private String photoID;
    private String hostName;
    private boolean isCheckedIn;

    public Visitor(String name, String contactNumber, String photoID, String hostName) {
        this.name = name;

        this.contactNumber = contactNumber;
        this.photoID = photoID;
        this.hostName = hostName;
        this.isCheckedIn = false;
    }

    public void checkIn() {
        isCheckedIn = true;
    }

    public void checkOut() {
        isCheckedIn = false;
    }

    public String getName() {
        return name;
    }

    public String getContactNumber() {
```

```
return contactNumber;  
}
```

```
public String getPhotoID() {  
    return photoID;  
}
```

```
public String getHostName() {  
    return hostName;  
  
}
```

```
public boolean isCheckedIn() {  
    return isCheckedIn;  
}  
}
```

```
interface VisitorView {  
    void showVisitorDetails(String name, String contactNumber, String photoID, String hostName,  
        boolean isCheckedIn);  
    void showError(String message);  
}
```

```
class VisitorViewImpl implements VisitorView {  
    @Override  
    public void showVisitorDetails(String name, String contactNumber, String photoID, String  
        hostName, boolean isCheckedIn) {  
        System.out.println("\nVisitor Details:");  
        System.out.println("Name: " + name);  
        System.out.println("Contact Number: " + contactNumber);  
        System.out.println("Photo ID: " + photoID);  
    }  
}
```

```
System.out.println("Host Name: " + hostName);  
System.out.println("Status: " + (isCheckedIn ? "Checked In" : "Checked Out"));  
}
```

```
@Override  
public void showError(String message) {  
    System.out.println("\nError: " + message);  
}  
}
```

```
class VisitorPresenter {  
  
    private VisitorView visitorView;  
    private Visitor visitor;  
  
    public VisitorPresenter(VisitorView visitorView) {  
        this.visitorView = visitorView;  
    }  
  
    public void checkInVisitor(String name, String contactNumber, String photoID, String hostName) {  
        if (name.isEmpty() || contactNumber.isEmpty() || photoID.isEmpty() || hostName.isEmpty()) {  
            visitorView.showError("Invalid input values. Please enter all required details.");  
        } else {  
            visitor = new Visitor(name, contactNumber, photoID, hostName);  
            visitor.checkIn();  
            visitorView.showVisitorDetails(visitor.getName(), visitor.getContactNumber(),  
            visitor.getPhotoID(), visitor.getHostName(), visitor.isCheckedIn());  
        }  
    }  
  
    public void checkOutVisitor() {
```

```
if (visitor == null || !visitor.isCheckedIn()) {  
    visitorView.showError("No visitor is currently checked in.");  
} else {  
    visitor.checkOut();  
    visitorView.showVisitorDetails(visitor.getName(), visitor.getContactNumber(),  
    visitor.getPhotoID(), visitor.getHostName(), visitor.isCheckedIn());  
}  
}  
}
```

```
public class VisitorManagementSystem {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
  
        VisitorView visitorView = new VisitorViewImpl();  
        VisitorPresenter visitorPresenter = new VisitorPresenter(visitorView);
```

```
        System.out.println("Enter Visitor Name: ");  
        String name = scanner.nextLine();  
        System.out.println("Enter Contact Number: ");  
        String contactNumber = scanner.nextLine();  
        System.out.println("Enter Photo ID: ");  
        String photoID = scanner.nextLine();  
        System.out.println("Enter Host Name: ");  
        String hostName = scanner.nextLine();
```

```
        visitorPresenter.checkInVisitor(name, contactNumber, photoID, hostName);
```

```
        System.out.println("\nWould you like to check out the visitor? (yes/no)");  
        String choice = scanner.nextLine();  
        if (choice.equalsIgnoreCase("yes")) {
```

```
visitorPresenter.checkOutVisitor();  
}
```

```
scanner.close();  
}  
}
```

OUTPUT :

Enter Visitor Name:

Sabarish

Enter Contact Number:

6383372507

Enter Photo ID:

91074198

Enter Host Name:

Sakthi

Visitor Details:

Name: Sabarish

Contact Number: 6383372507

Photo ID: 91074198

Host Name: Sakthi

Status: Checked In

Would you like to check out the visitor? (yes/no)

yes

Visitor Details:

Name: Sabarish

Contact Number: 6383372507

Photo ID: 91074198

Host Name: Sakthi

Status: Checked Out

=== Code Execution Successful ===