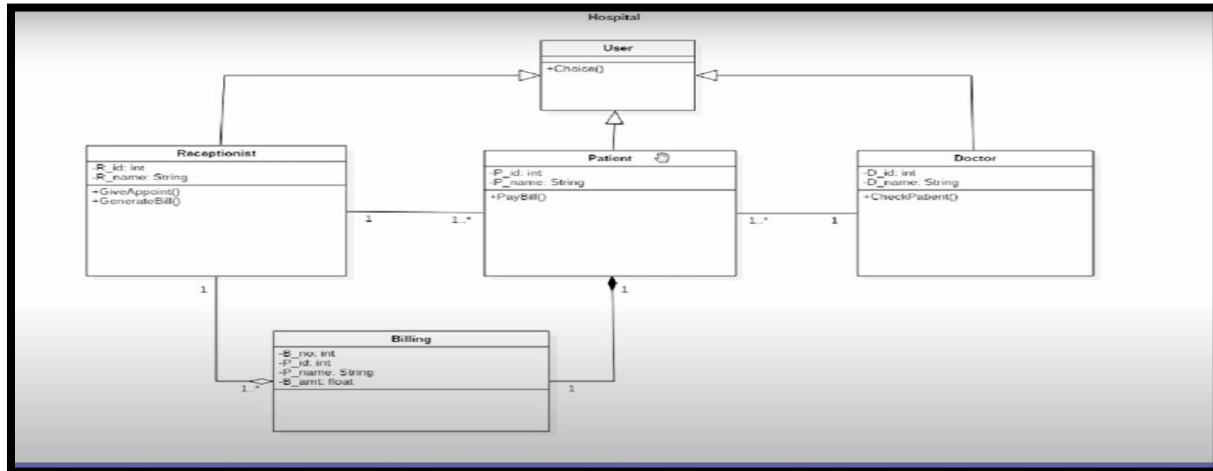


## LAB # 1

### Introduction to Eclipse IDE

#### Lab Task:-

- Write the java code with the help of the given class diagram of Hospital Management System.



#### Code:-

```

User.java
1 class User {
2     void choice() {
3         System.out.println("User can choose operations.");
4     }
5 }

Receptionist.java
1 class Receptionist extends User {
2     int R_id;
3     String R_name;
4
5     void giveAppointment() {
6         System.out.println("Receptionist gives appointment to patient.");
7     }
8
9     void generateBill() {
10        System.out.println("Receptionist generates bill for patient.");
11    }
12 }

Doctor.java
1 class Doctor extends User {
2     int D_id;
3     String D_name;
4
5     void checkPatient() {
6         System.out.println("Doctor checks the patient.");
7     }
8 }
  
```

```

User.java      Receptionist.java      Doctor.java      Patient.java
1      class Patient extends User { no usages
2          int P_id; no usages
3          String P_name; no usages
4
5          void payBill() { no usages
6              System.out.println("Patient pays the bill.");
7          }
8      }

User.java      Receptionist.java      Doctor.java      Patient.java
1      class Billing { no usages
2          int B_no; 1 usage
3          int P_id; 1 usage
4          String P_name; 1 usage
5          float B_amt; 1 usage
6
7          void showBill() { no usages
8              System.out.println("Bill No: " + B_no);
9              System.out.println("Patient ID: " + P_id);
10             System.out.println("Patient Name: " + P_name);
11             System.out.println("Amount: $" + B_amt);
12         }
13     }

User.java      Receptionist.java      Doctor.java      Patient.java
1  public class Hospital {
2      public static void main(String[] args) {
3          Receptionist r = new Receptionist();
4          r.R_id = 1;
5          r.R_name = "Anna";
6
7          Doctor d = new Doctor();
8          d.D_id = 101;
9          d.D_name = "Dr. Smith";
10
11         Patient p = new Patient();
12         p.P_id = 5001;
13         p.P_name = "John Doe";
14
15         Billing b = new Billing();
16         b.B_no = 9001;
17         b.P_id = p.P_id;
18         b.P_name = p.P_name;
19         b.B_amt = 250.75f;
20
21         System.out.println("=== Hospital System ===");
22         r.giveAppointment();
23         d.checkPatient();
24         r.generateBill();
25         b.showBill();
26         p.payBill();
27     }
28 }

```

**Output:-**

```

C:\Users\LAPCOM\.jdk\openjdk-25\bin\java.
=== Hospital System ===
Receptionist gives appointment to patient.
Doctor checks the patient.
Receptionist generates bill for patient.
Bill No: 9001
Patient ID: 5001
Patient Name: John Doe
Amount: $250.75
Patient pays the bill.

Process finished with exit code 0

```