

Train ticket booking project

```
import java.util.ArrayList;
import java.util.*;
class Train
{
private String tname;
//private int aseats=50;
private int as;
public String pname[]=new String[100];
public int page[]=new int[100];
int c=1,nop;
Train()
{

}
Train(String[] pname,int[] page)
{

    this.pname=pname;
    this.page=page;
}
public void setAs(int as)
{
    this.as=as;
}
public int getAs()
{
    return as;
}
void express()
{
    System.out.println("-----
-----");
    System.out.println("Ticket(s) booked successfully!");
    System.out.println("Seats remaining:"+(this.as));
```

```

}
}
class Main
{
public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    int i=1,count=1,ch,j=1,count1=0;
    String tname;
    String pname[]=new String[100];
    String x[]=new String[100];
    int page[]=new int[100];
    int nop,as=50,as1=50;
    HashMap<String,Integer> h=new HashMap<String ,Integer>();
    ArrayList<String> name = new ArrayList<String>();
    ArrayList<String> na=new ArrayList<String>();
    System.out.println("*");
    System.out.println("\t\tWelcome to Railway Ticket Reservation
Console Application");
    System.out.println("*");
    do{
        System.out.println("Please choose the option");
        System.out.println("1. Book the Ticket \n2. Exit");
        ch=sc.nextInt();
        switch(ch)
        {
            case 1:
                System.out.println("Enter the Train name:");
                tname=sc.next();
                System.out.println("Enter the number of tickets you want to book:");
                nop=sc.nextInt();
                if(h.containsKey(tname))
                {
                    int x1=h.get(tname);
                    h.put(tname,x1-nop);
                    System.out.println("Passenger Details:");

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        for(i=1;i<=nop;i++)
        {

            System.out.println("Passenger "+i+" details ");
            pname[i]=sc.next();
            if (name.contains(pname[i]))
            {
                System.out.println("Name already exists!");
                i=i-1;
            }
            else
            {
                sc.nextLine();
                page[i]=sc.nextInt();
                Train t1=new Train(pname,page);
                name.add(pname[i]);
            }
        }
        count=50-x1 +1;
    }
    else
    {
        h.put(tname,50-nop);
        for(i=1;i<=nop;i++)
        {

            System.out.println("Passenger "+i+" details ");
            pname[i]=sc.next();

            if (na.contains(pname[i]))
            {
                System.out.println("Name already exists!");
                i=i-1;
            }
            else
            {
                sc.nextLine();

```

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        page[i]=sc.nextInt();
        Train t1=new Train(pname,page);
        name.add(pname[i]);
        na.add(pname[i]);

    }

    count=1;
}
na.clear();
}

```

```

Train t=new Train();

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```

        System.out.println("");
        System.out.println("
                                Your Ticket Details
");
        System.out.println("");
        System.out.println("
                                Train name:"+tname+"
");
        System.out.println("-----
-----");
        System.out.println("
                                Passenger Details
");
        System.out.println("-----
-----");
        System.out.println("passenger name\t\t passenger age\t\tpassenger
seat");
        for(i=1;i<=nop;i++)
        {

            System.out.print(pname[i]+"\\t\\t");
            System.out.print(page[i]+"\\t\\t");
            System.out.print(count+"\\t\\t");
            count++;
        }
        System.out.println();

```

```
    }
    as=50;
    as=as-(count-1);
    t.setAs(as);
    t.express();
    break;
    case 2: System.out.println("Thank you for using the Ticket Reservation
System. Goodbye!");
    break;
    default: System.out.println("Invalid input");
    }
} while(ch!=2);
}
}
```