Assigment-6
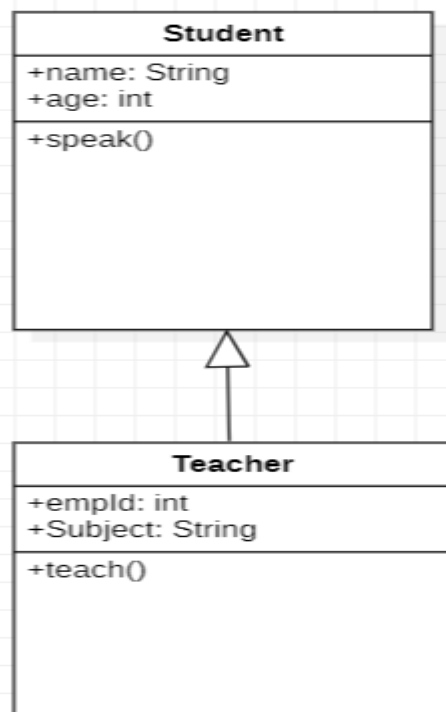
Name: Shiv Prasad
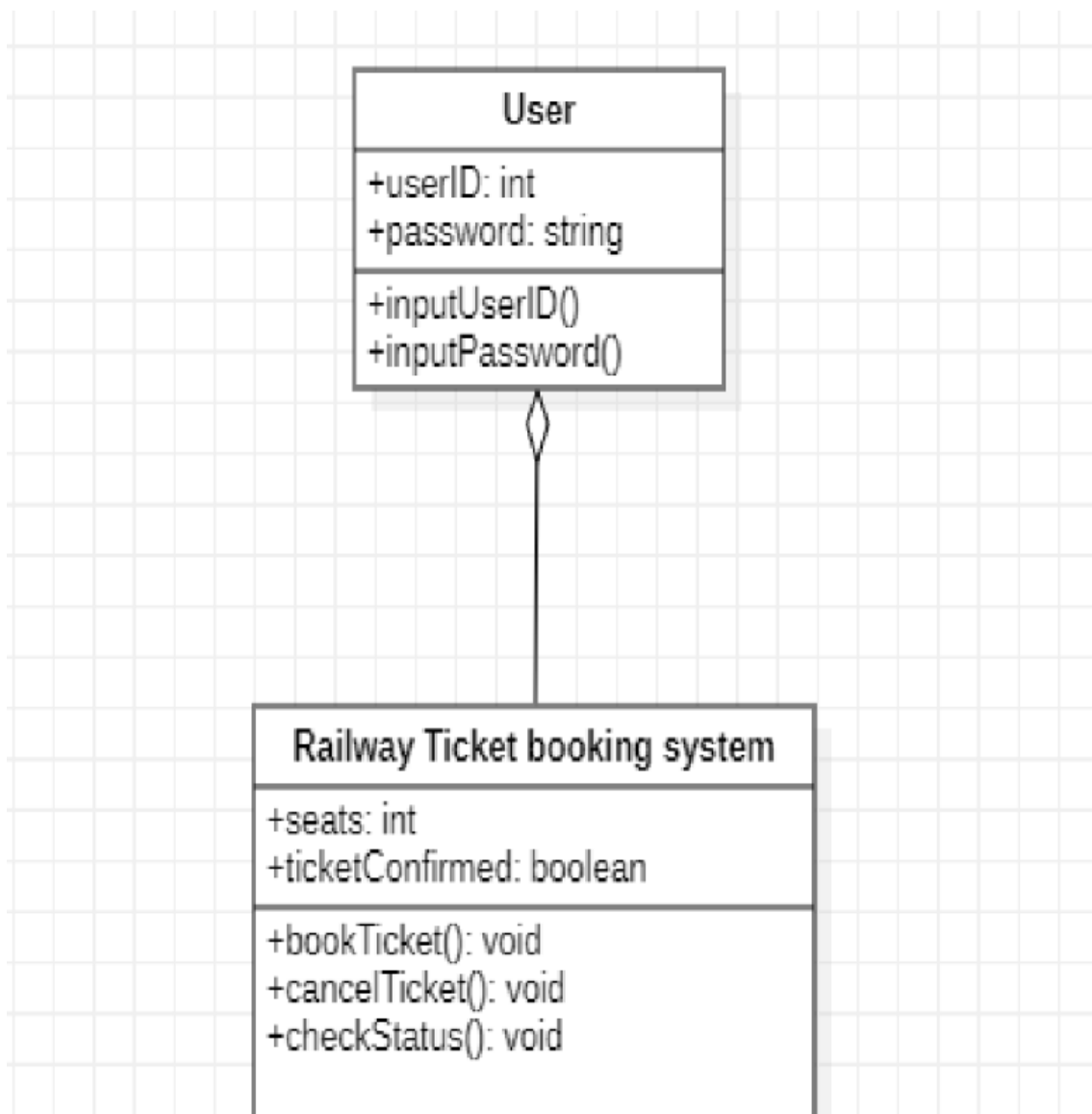
Roll no: CH.SC.U4CSE25039

Class Diagrams

1) Teacher and student

2) Railway Ticket booking system

```
┌─────────────────────────────┐
│            User             │
├─────────────────────────────┤
│ +userID: int                │
│ +password: string           │
├─────────────────────────────┤
│ +inputUserID()              │
│ +inputPassword()            │
└─────────────────────────────┘
              ◇
              │
              │
┌─────────────────────────────────────┐
│   Railway Ticket booking system      │
├─────────────────────────────────────┤
│ +seats: int                          │
│ +ticketConfirmed: boolean            │
├─────────────────────────────────────┤
│ +bookTicket(): void                  │
│ +cancelTicket(): void                │
│ +checkStatus(): void                 │
└─────────────────────────────────────┘
```

3)University management system

Person

+name: String
+age: int

+getDetails()

Professor

+empId: int
+name: String

+teach()
+markAttendance()

Student

+name: String
+age: int

+attendClasses()

Department

+deptname: String
+deptstrength: int

+addStudent()

University

+univname: String
+univbranches: int

+manageuniv()

Library

+bookname: String
+bookcardno: int

+getbook()

Course

+coursename: String
+courseId: int

+getcourse()