**COLLEGE MANAGEMENT SYSTEM**

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| --- | --- | --- | --- | --- |
| |  | | --- | | College   * CollegeId (autoincremented :   C1001)   * CollegeName * Location * CutOffPercentage * NumberOfSeatsAvailable | | |  | | --- | | Student   * Id (autoincremented :   St1001)   * Name * College(datatype: College) * PercentageObtained | |  | |

1. Login
   * 1. Enter User Id and Password
     2. Exit
2. If the user logs in as Admin (**UserId** = Admin, **Password** = Admin), he should be able to get the below menu:
   * 1. Add college
     2. Display student details with a particular college Id
     3. Back to Login

**Note**: Once the college details are added by pressing ‘1’, the user sees the message:

*“Do you want to add more college?(y/n)”* and can continue adding colleges until he presses ‘n’ to go back to the previous menu.

1. If the user logs in as Student (**UserId** = Student, **Password** = Student), he should see the below thing:

|  |  |  |  |
| --- | --- | --- | --- |
| **College Id** | **College Name** | **Location** | **No. of seats available** |
| C1001 | IIT Bombay | Mumbai | 245 |
| C1002 | RV College of Engineering | Bangalore | 455 |

Please enter your name:

Enter the college id you want to apply for:

Enter your percentage:

**Note**:

* + The output window first shows only the colleges which has at least 1 seat available (as shown above)
  + After checking the basic validations, if the percentage obtained by a student is greater than / equals the cut off percentage of the given college id and seats are available for that college, only then he should see the message *“You have successfully applied for this college with id:xxxxx”*
  + After a seat is allocated the seat should be decreased from the college list
  + For any incorrect entry, it should show the appropriate messages , After this, the student must be redirected back to the Login

**The solution must contain separate presentation layer, business layer, entity layer (containing entity classes) and exception layer. All user inputs must be validated and exceptions to be handled**.

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| The College details should be saved and fetched in/from Excel File and Student Allocation details | |
| should be saved and fetched in/from Dictionary (Collections). |  |