

Report

This paper deals with the JEE Advanced Rank Predictor modelling ,working and discusses how it can help student predict their rank. It predicts both Common and Category (OBC,SC,ST,PWD) rank. In addition,it also predicts the college one may get through the exam either through common rank or category rank. In what other ways rank predictor helps student is also discussed in the paper.Rank predictor uses what type of algorithm is also dealt and how the difficulty level factor changes the entire scenario. The limitation of the rank predictor is stated as well. The rank predictor also helps in searching college to help student know about the opening and closing rank of the college.

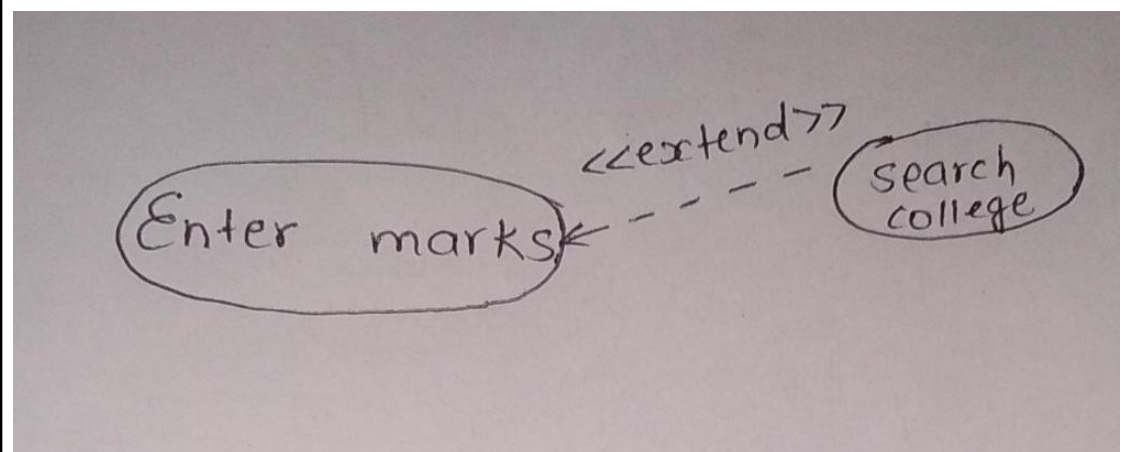
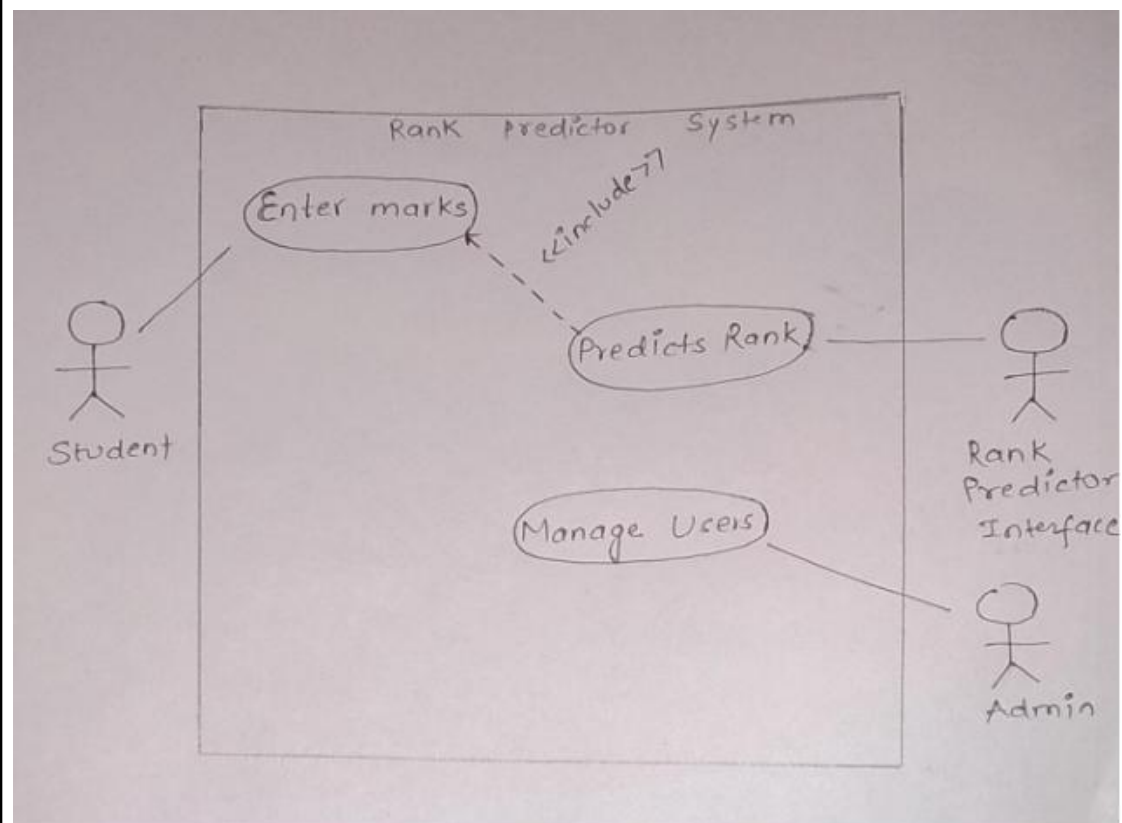
The objective is twofolded:

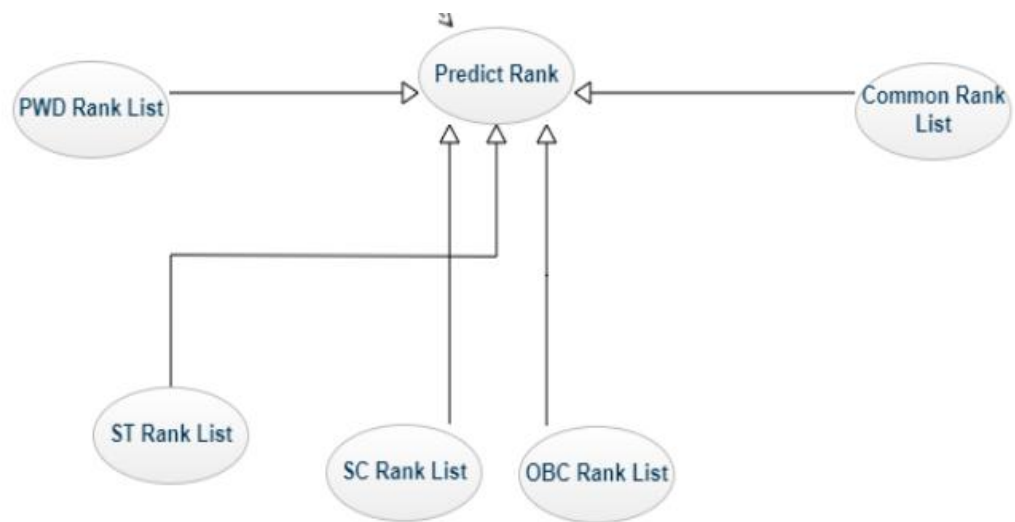
- i) Helps student predict the rank & college and
- ii) Let them know if they need to prepare themselves for other examination or attend counselling for other good colleges. The algorithm which predicts rank and how it ensures the accuracy and precision. Finally, how rank predictor notifies if it encounters any malfunctioning is also mentioned.

Diagrams

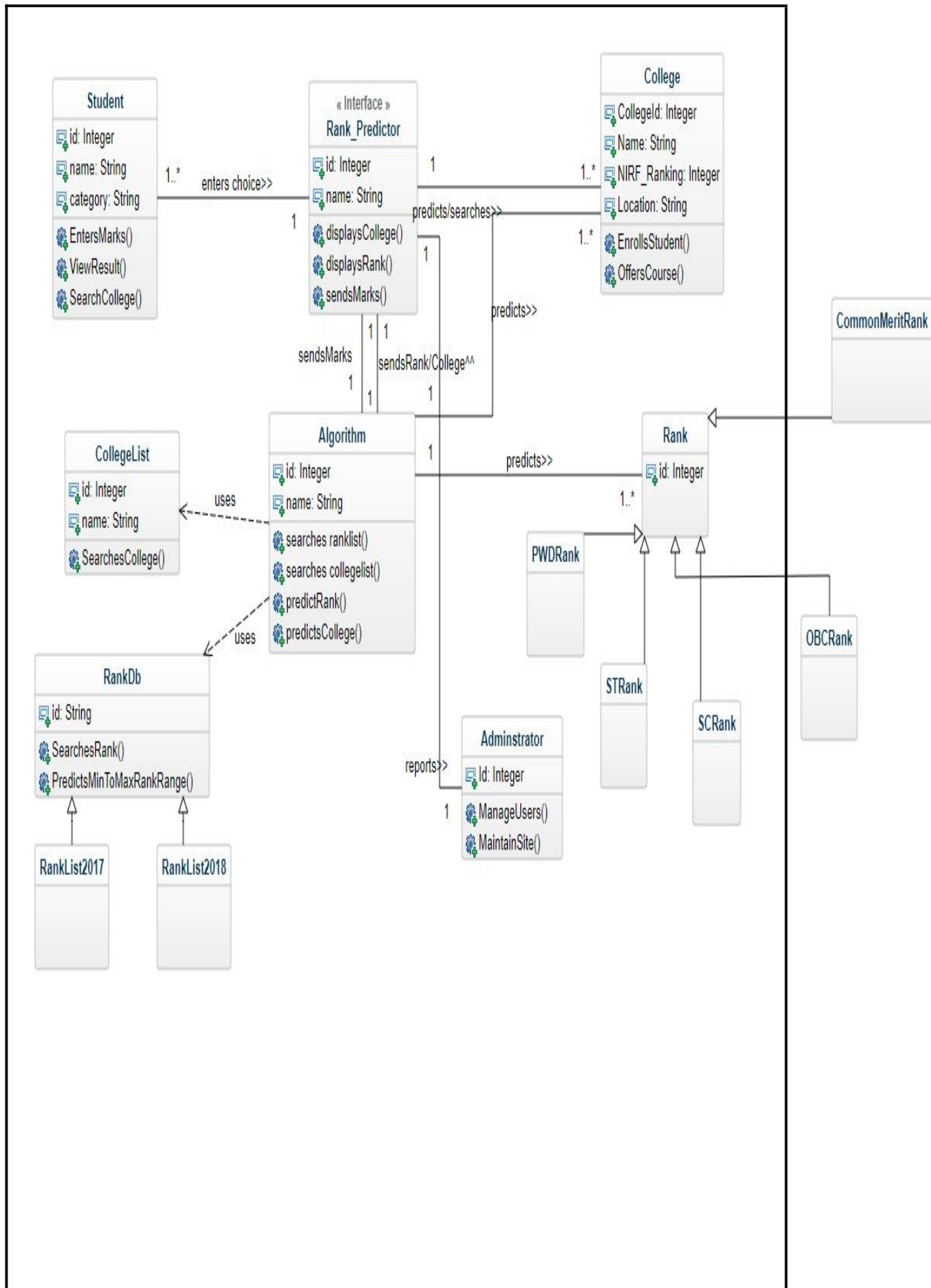
(1)

Use Case Diagram

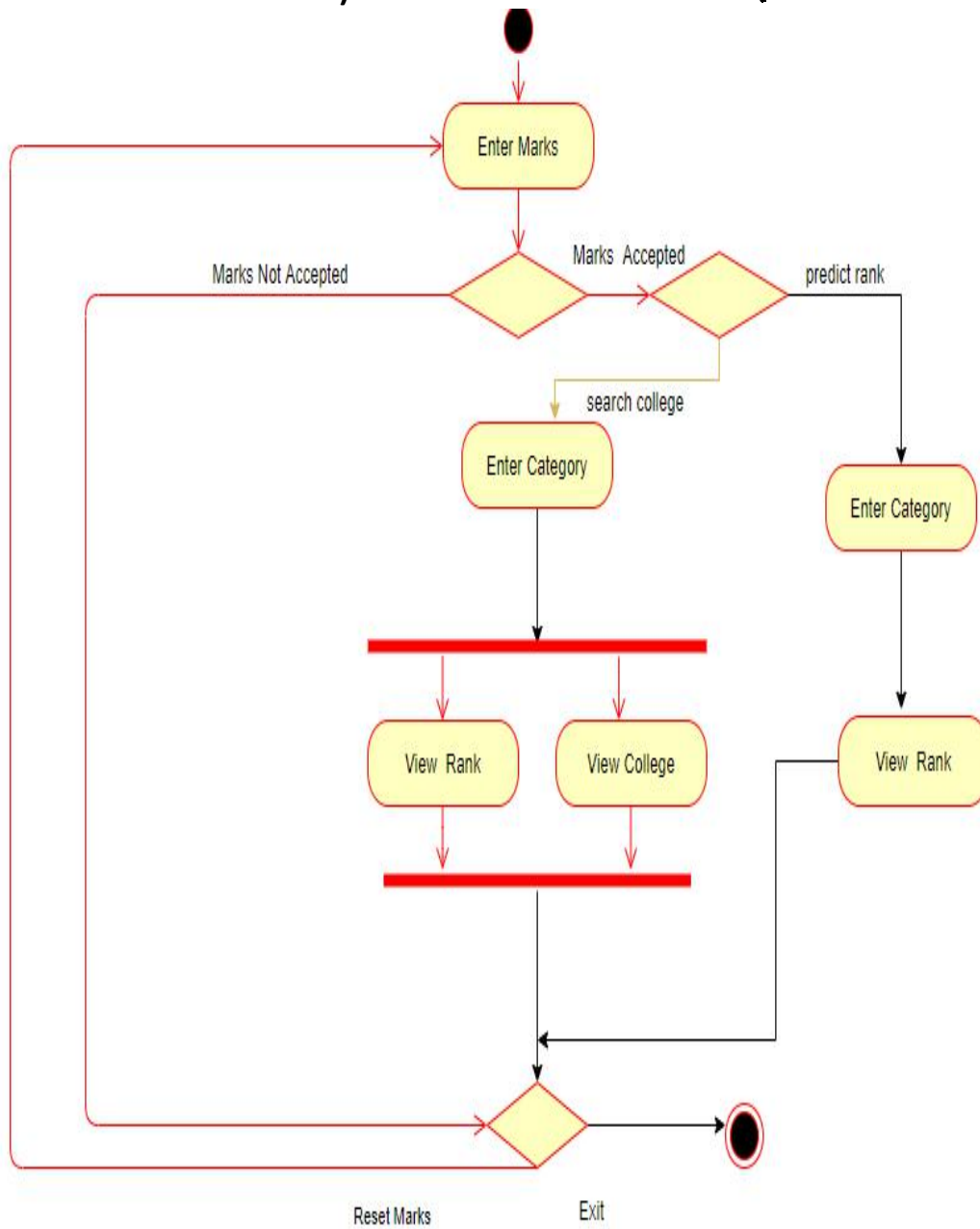




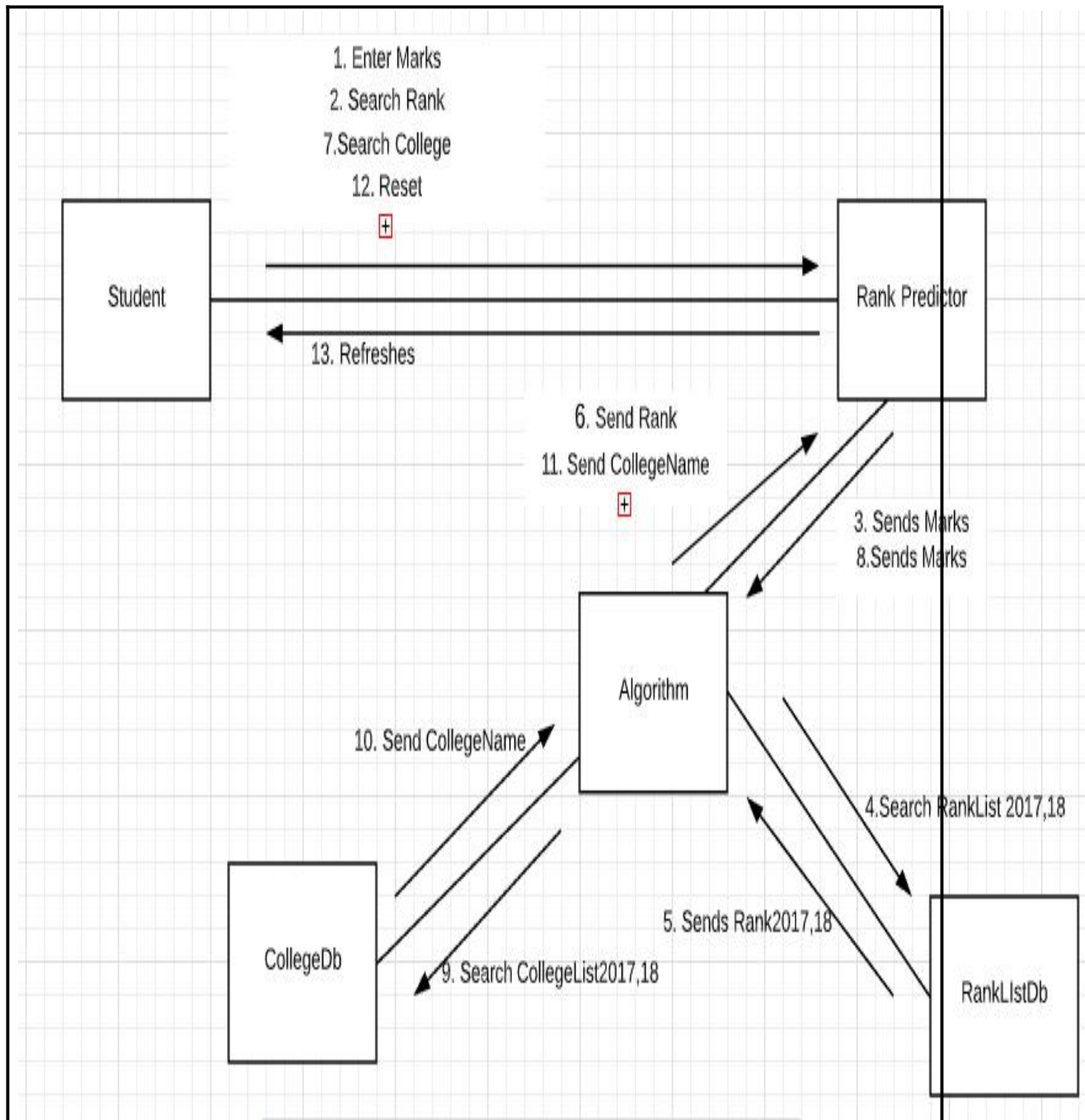
(2) Class Diagram



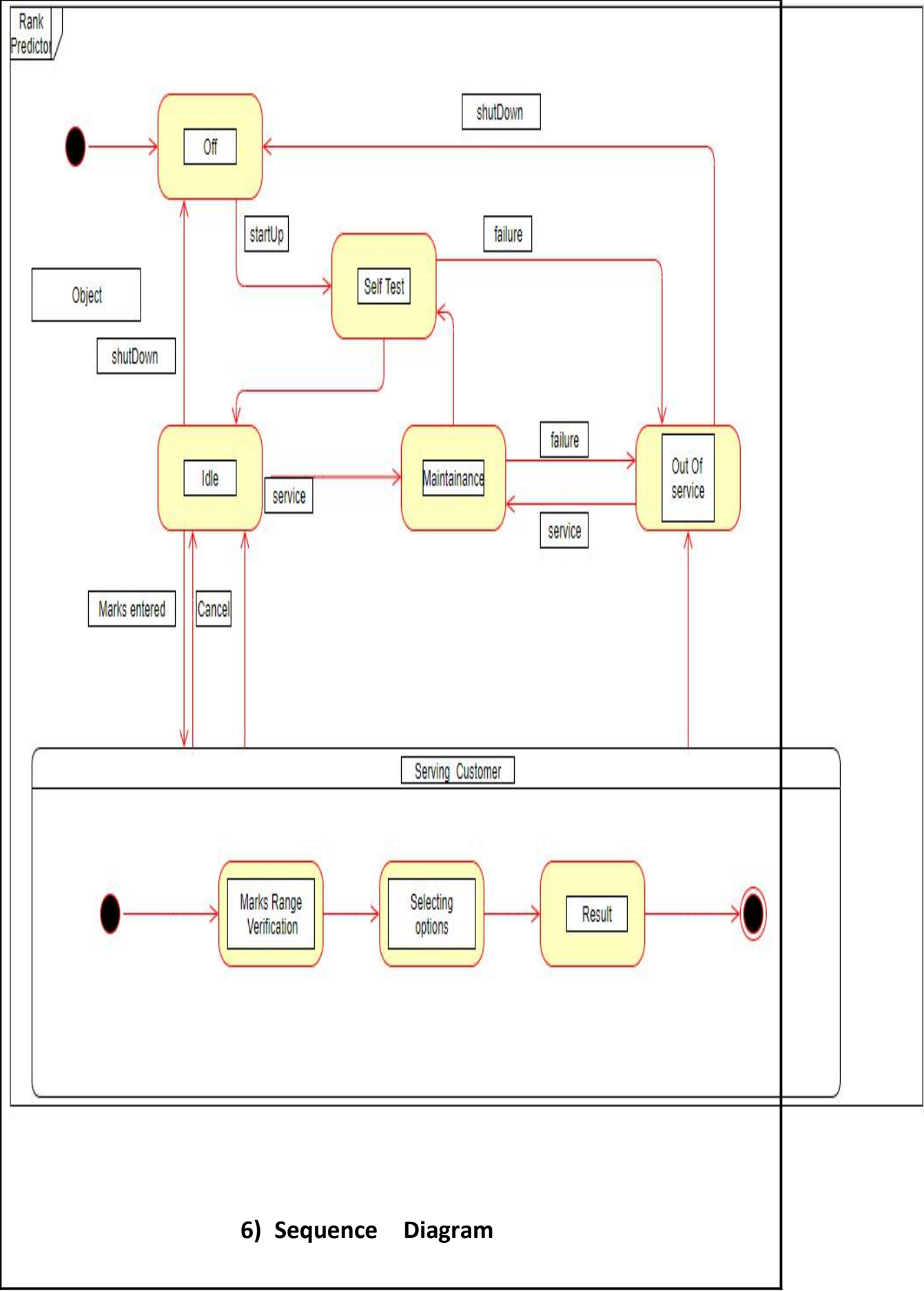
3) ACTIVITY DIAGRAM,



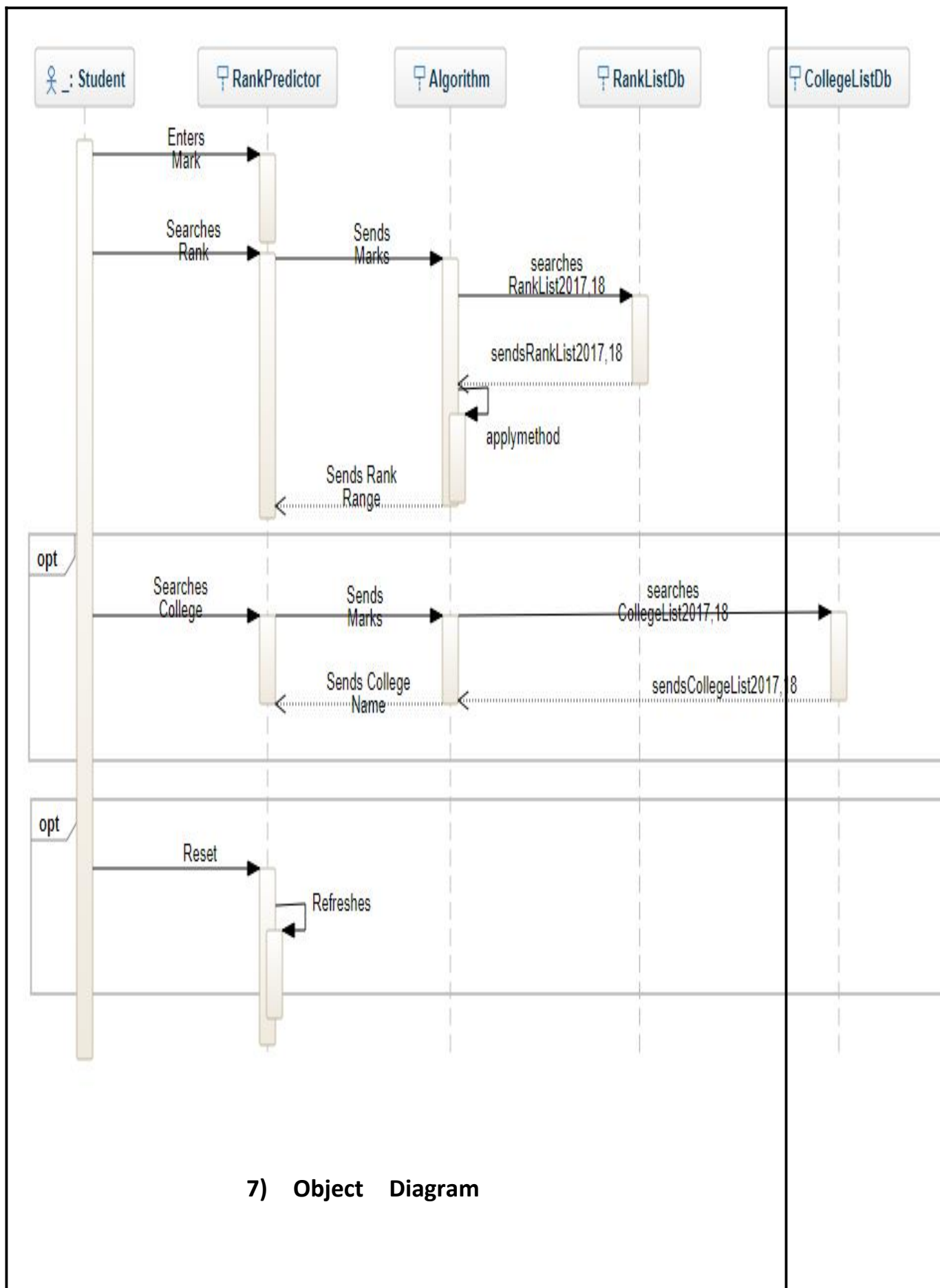
4) Collaboration Diagram



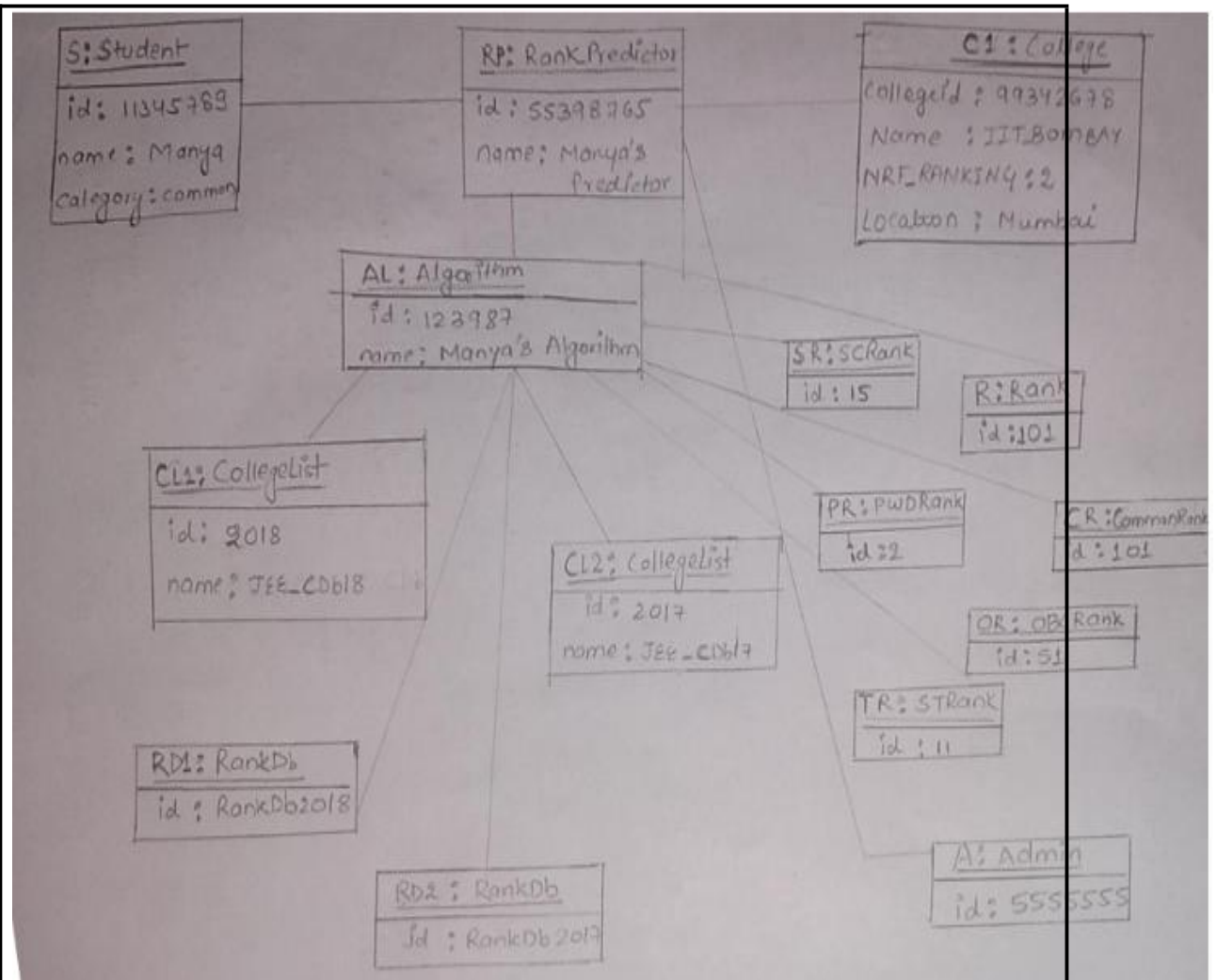
5) State Diagram



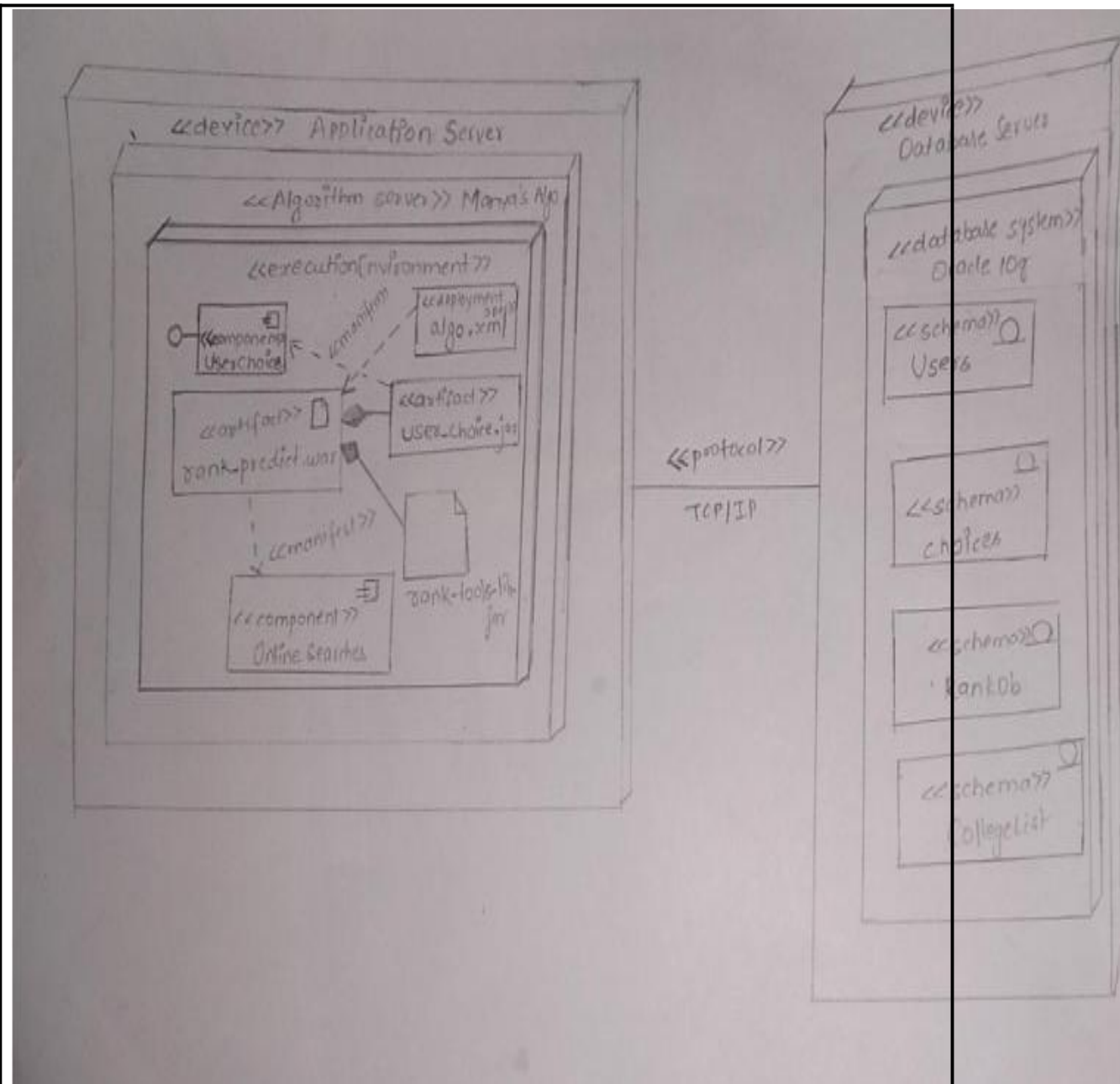
6) Sequence Diagram



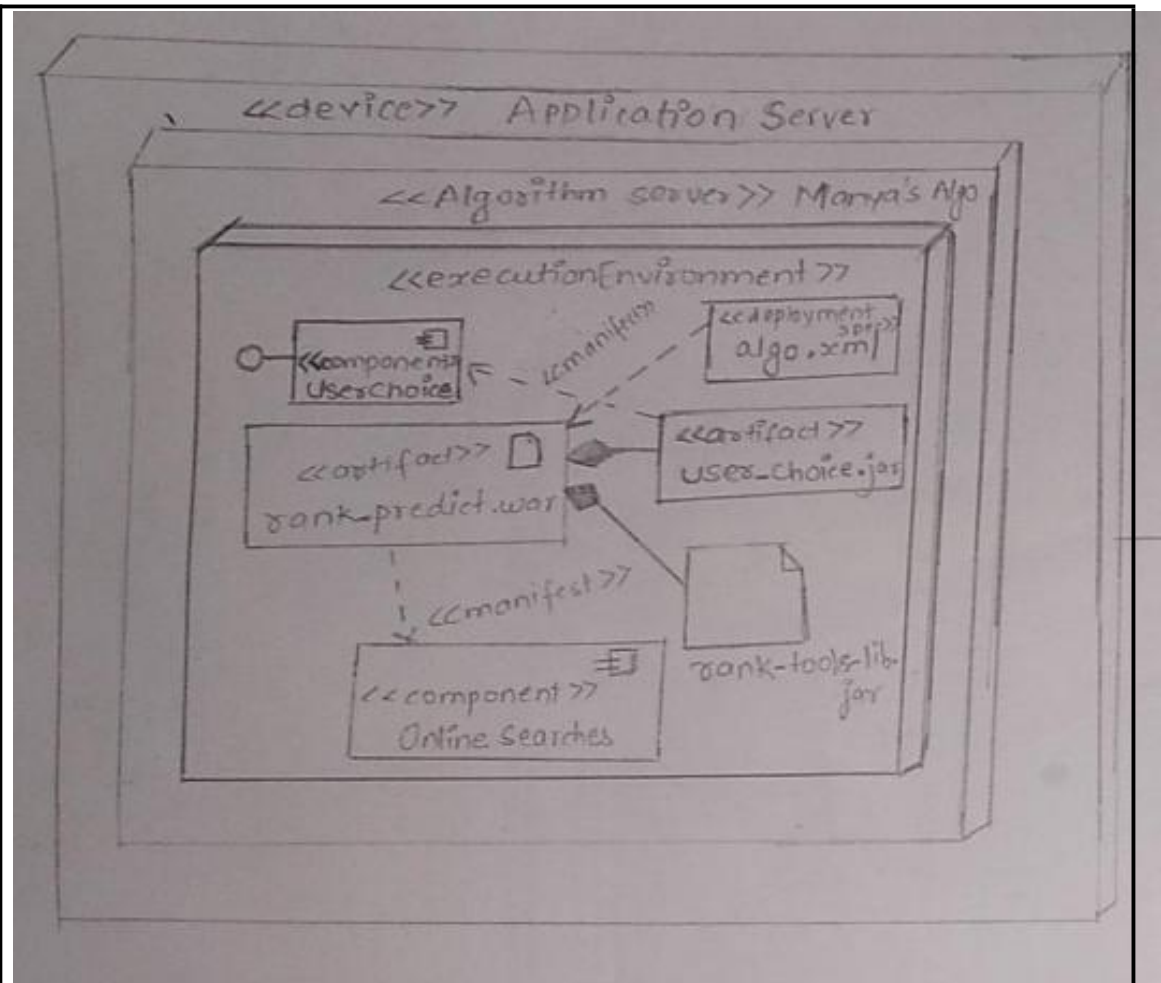
7) Object Diagram



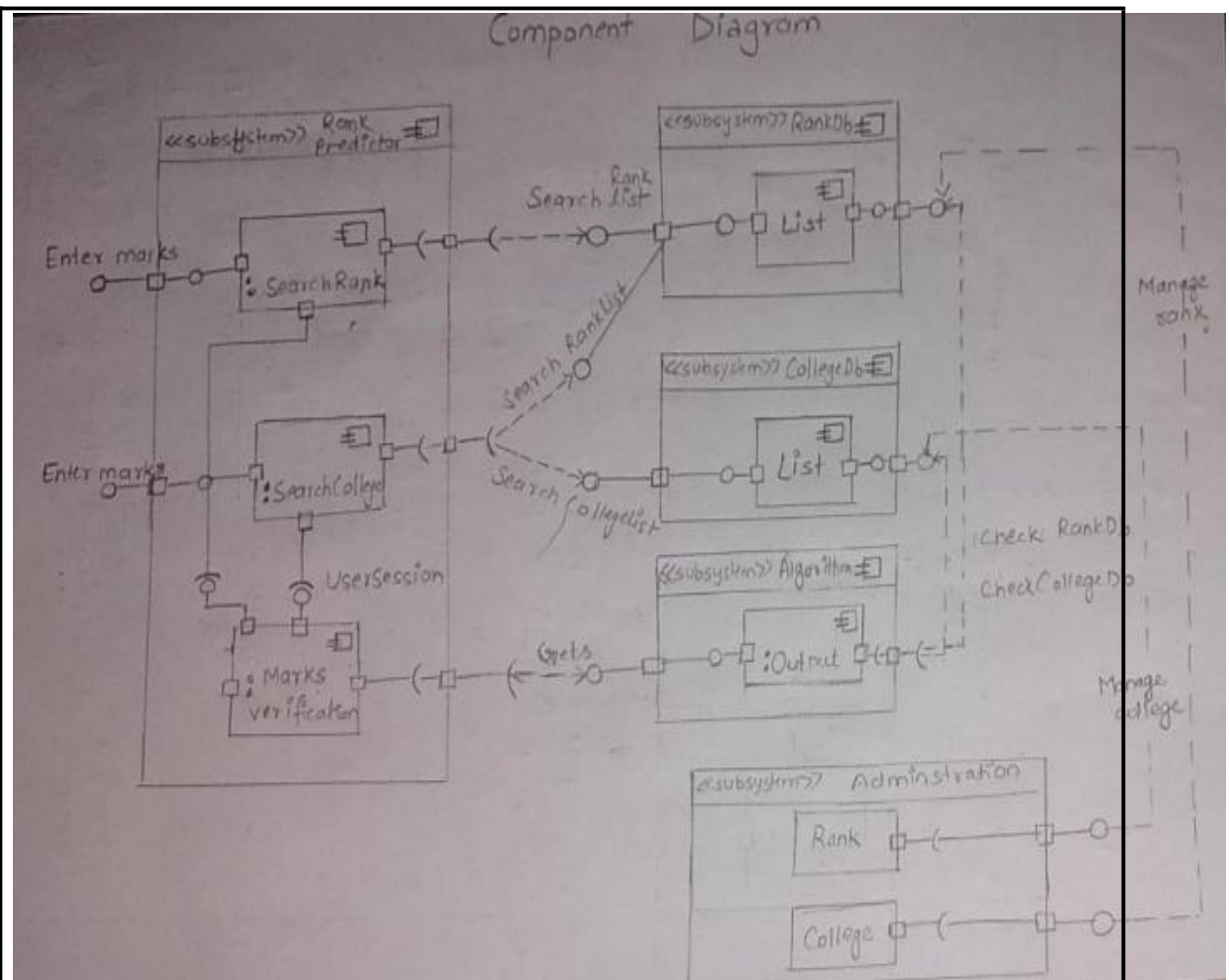
8) Deployment diagram



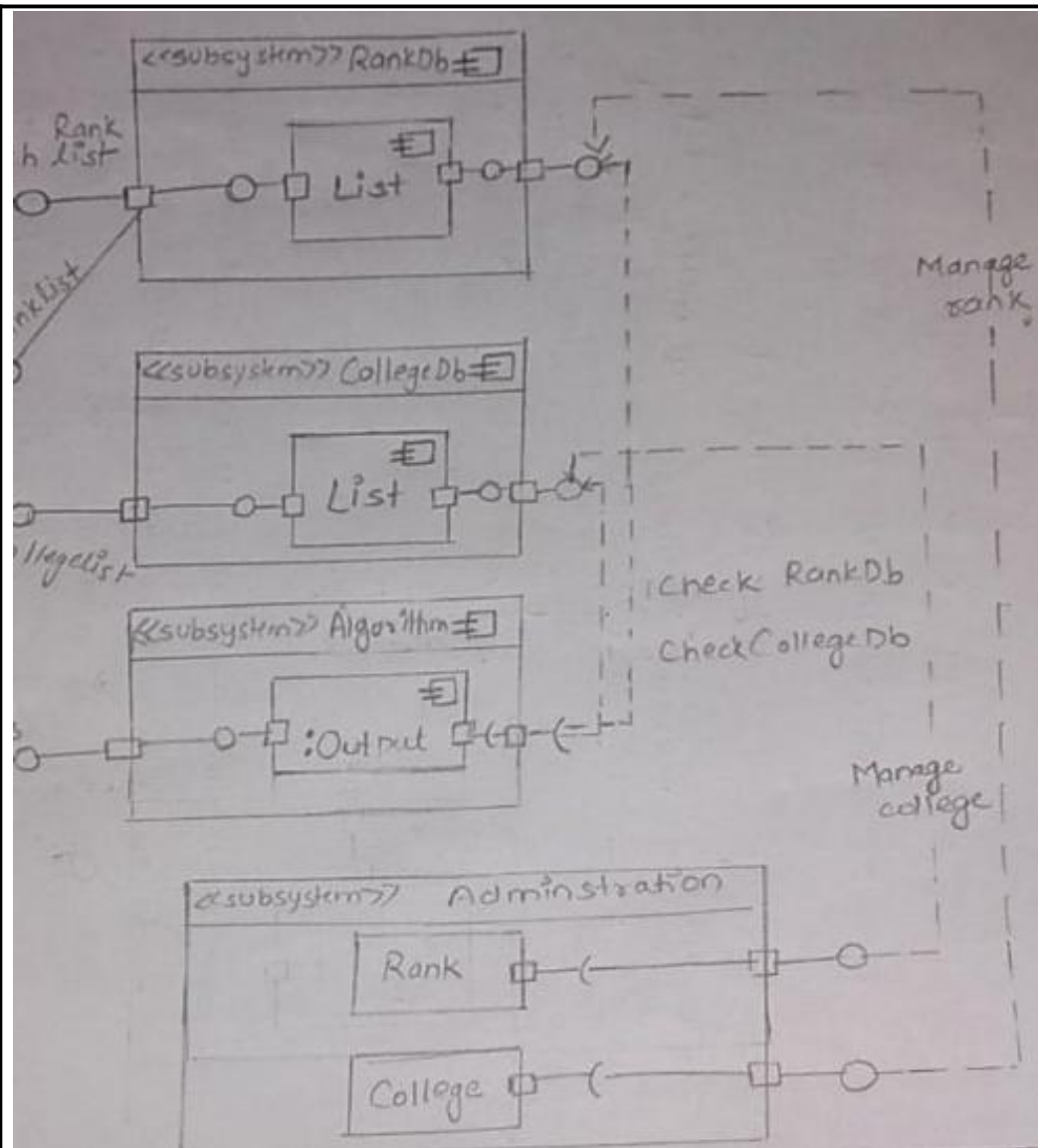
(for clarity)

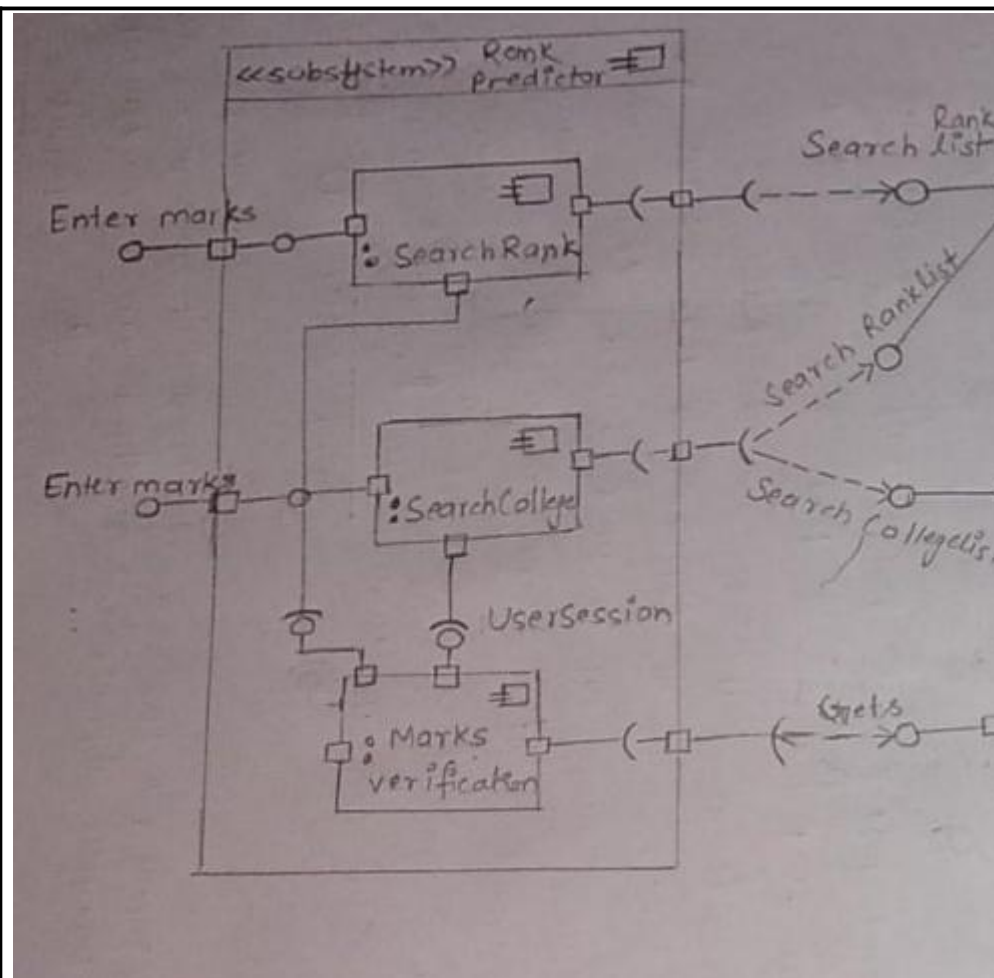


9) Component Diagram



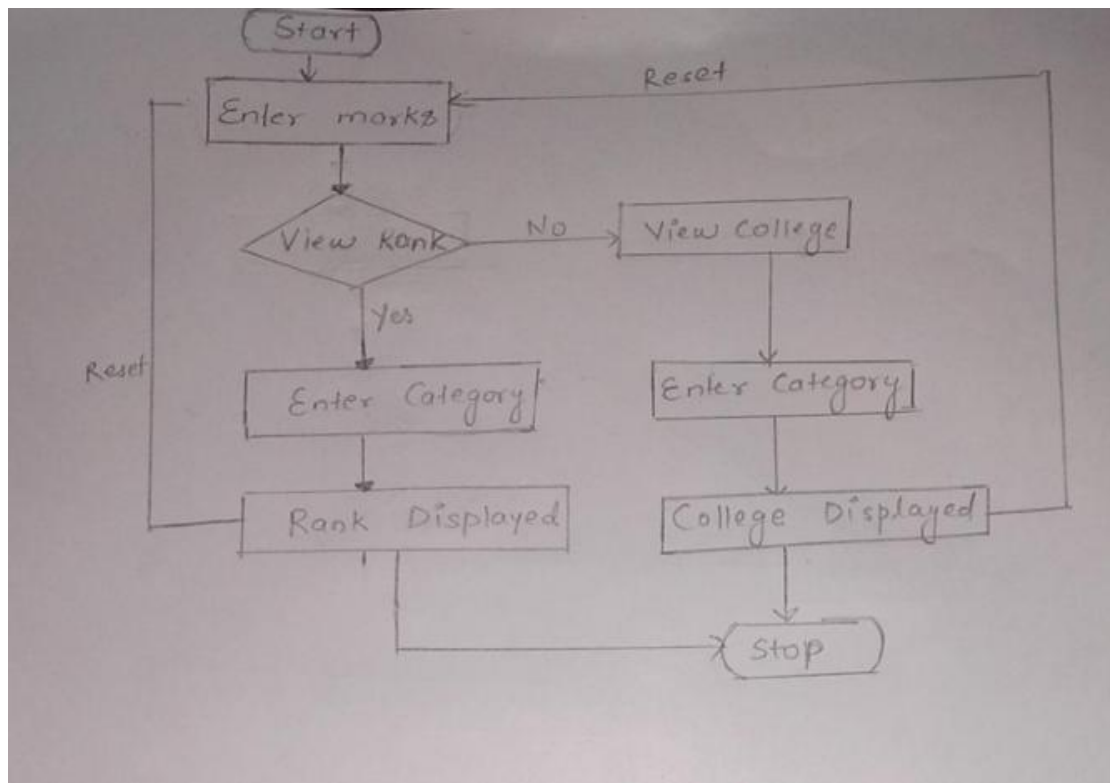
For Clarity



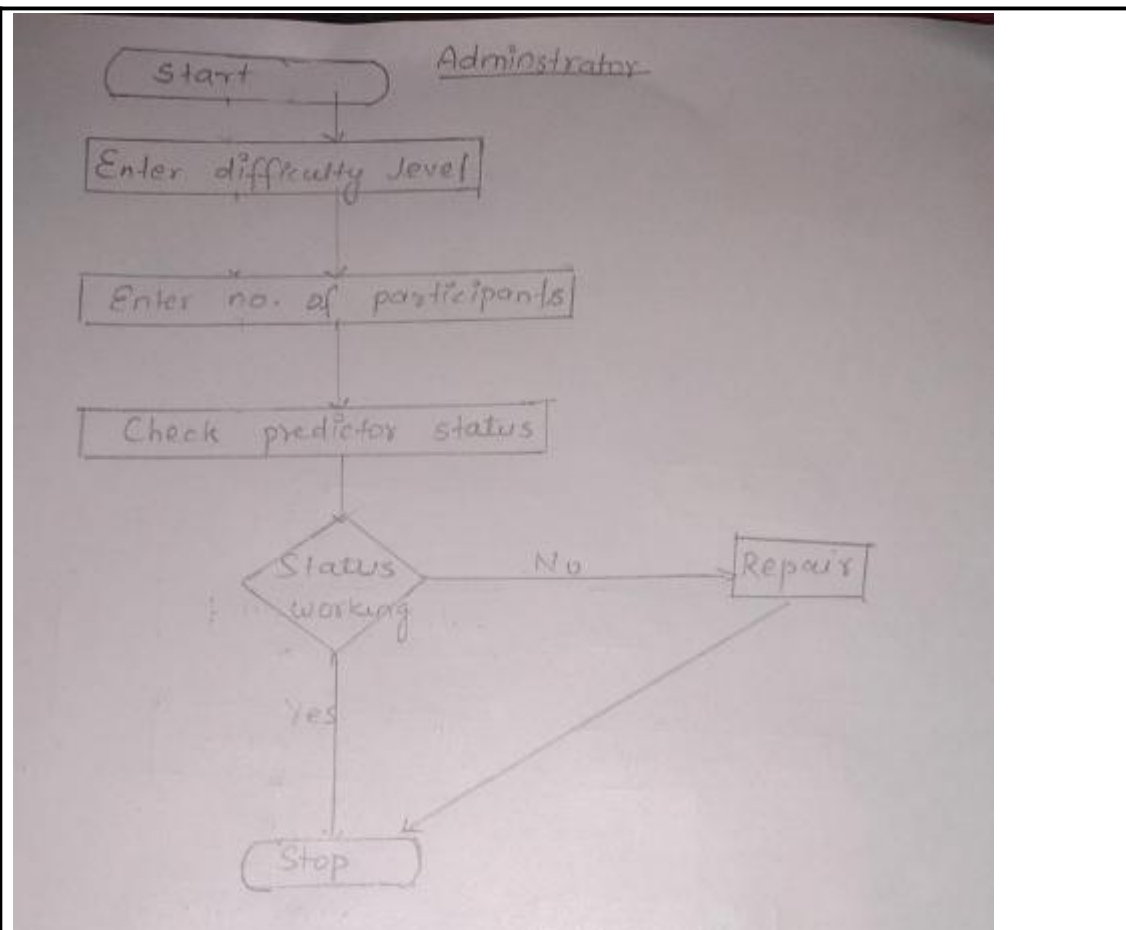


FlowChart

User



Adminstrator



Result:

Results and Comparisons

I used the predictor to calculate ranking of JEE Advance Common Rank. Despite the fact the database is fed manually so obviously marks corresponding to every rank couldn't be fed, an interval of 100 rank was taken, but still it was precise in most of the cases about the rank range. Below are some of the results:

General Category:

Marks	Predictor's Rank Range	Actual Rank	Shiksha's
Predictor			
251	193-233	217	1149- 1319 - 1489
153	5637-6837	5514	17285

201

536-1120

1220

5049-**5493**-5937

Even Quora has many cases of rank being predicted wrongly in range of 10000s. By different predictors.