**Requirement Analysis**

**Requirement Elicitation**

1. Teacher can take Semester Final, Class tutorial and Lab viva
2. Teacher can take MCQ and Written exam
3. Student submit the Answer either Document(doc, pdf, txt) or image
4. Exam controller can control the real time webcam sharing, micro-phone, screen and browser access.
5. Related Course Teacher can upload the question to the system
6. Teacher will able to select question paper
7. Student enroll the exam
8. Teacher assign the exam schedule and set the exam duration.
9. System automatically will reduce the mark for late submission
10. System will analyze the facial expression and surrounding environment during exam.
11. If any type of wrong doing is happened during the exam, then system will notify the teacher or exam controller.
12. Teacher can distribute the question randomly.
13. System will check the plagiarism among the submitted answer scripts
14. Whenever student submit the answer sheet, teacher will get the notification.
15. System will calculate the mark-sheet or grade-sheet.
16. Both Teacher and student can real time chat.
17. Result will be generate automatically.
18. Result or Rank list will not be publicly available
19. Guardian can view the student results
20. Result sheet will be pdf file
21. Teacher can dismiss the exam for any kind of cheating.
22. Exam controller can access the microphone
23. Teacher or exam controller can ban or remove the student.

1. Atomic 🡪 means it will be very low level details and should not possible to separate it out into many components or requirement. Because this requirement will kept in simple so that easily implement the requirement completely without any confusion.

2. Uniquely identified 🡪 means requirement uniquely identified on the basis of single and unique id or rule (suppose one student has different user profile and can cheating the examination)

3. Complete🡪 requirement should be complete without any confusion question.

4. Prioritized 🡪 means prioritize the requirement.

5. Testable 🡪 can be testable

6. Ambiguous

7. Unnecessary

* Status
* Clear, well and validate, included

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| Serial No | Requirements | Requirements Quality | Status |
| 01 | Teacher can take Semester final ,tutorial and Lab via exam | Complete and prioritized | Clear and included |
| 02 | Teacher can take MCQ or Written exam | Complete, unambiguous but not uniquely identified the type of exam. | included |
| 03 | Student submit the Answer either Document (doc, pdf, txt) or image. | Not uniquely identified, not atomic , modifiable | Modified and included |
| 04 | Exam controller can control the real time webcam sharing, micro-phone, screen and browser access. | Ambiguous, not testable, implementation complexity | Some feature will be included and some features will be discard |
| 05 | Related Course Teacher can upload the question to the system | Complete, atomic, clear | Included |
| 06 | Teacher will able to select question paper | Complete, atomic, clear | included |
| 07 | Student enroll the exam | Complete, atomic, uniquely identified | included |
| 08 | Teacher assign the exam schedule and set the exam duration. | Complete, clear, atomic, prioritized. | Included |
| 09 | System automatically will reduce the mark for late submission | Not Clear, Not complete, No testable | Discard |
| 10 | System will analyze the facial expression and surrounding environment during exam. | Not clear, Not complete, ambiguous, ,implementation complexity | Discard |
| 11 | If any type of wrong doing is happened during the exam, then system will notify the teacher or exam controller | Implementation complexity, not completed, not clear | Discard |
| 12 | Teacher can distribute the question randomly. | Clear, complete, atomic | Included |
| 13 | System will check the plagiarism among the submitted answer scripts | Implementation complexity | Discard |
| 14 | Whenever student submit the answer sheet, teacher will get the notification | Not necessary, not prioritized | Discard |
| 15 | System will calculate the mark-sheet or grade-sheet. | Clear, complete, atomic, uniquely identified, unambiguous | Included |
| 16 | Both Teacher and student can real time chat. | Clear, complete, atomic, consistent | Included |
| 17 | Result will be generate automatically. | ambiguous | Discard |
| 18 | Result or Rank list will not be publicly available | Clear, complete, atomic | Included |
| 19 | Guardian can view the student results | Clear, complete, necessary | Included |
| 20 | Result sheet will be pdf file | ambiguous | Discard |
| 21 | Teacher can dismiss the exam for any kind of cheating. | Clear, complete, Necessary | Included |
| 22 | Exam controller can access the microphone | ambiguous | Discard |
| 23 | Teacher or exam controller can ban or remove the student. | Clear, complete, atomic | included |

**Requirement Checklist**

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| Serial No | Recorded Requirements |
| 01 | Teacher can take Semester final ,tutorial and Lab via exam |
| 02 | Teacher can take MCQ or Written exam |
| 03 | Student submit the Answer either Document (doc, pdf, txt) or image. |
| 04 | Exam controller can control the real time webcam sharing, micro-phone, screen and browser access. |
| 05 | Related Course Teacher can upload the question to the system |
| 06 | Teacher will able to select question paper |
| 07 | Student enroll the exam |
| 08 | Teacher assign the exam schedule and set the exam duration. |
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| 11 | Both Teacher and student can real time chat. |
| 12 | Result or Rank list will not be publicly available |
| 13 | Teacher can dismiss the exam for any kind of cheating. |
| 14 | Teacher or exam controller can ban or remove the student. |