Online Quiz Portal Software Requirement Specification:-

Brief problem statement

This System will be an Online Quiz Portal in which the Teachers would be able to Create Quizzes on various Categories and sub-categories such as DS/Algo, System Design etc. and students would be able to attempt those quizzes within the given time constraints. Users should be able to compare their progress with other students using various features such as leaderboard, performance graphs etc. Questions will be of MCQs with single/multiple answers correct.

System Requirements:-

- Stable Internet Connection.
- Minimum 4GB RAM
- Browser : Google Chrome/Firefox

User profiles

- **Teacher:** He/She will have access to -
  - Add/Remove Batches/Students.
  - Add/Remove Categories/Sub-categories quizzes.
  - Add/Remove Questions and maintain quizzes.
  - Assign Quizzes to a particular student or a whole batch.
  - View performance/result of any student.

- **Student -** He/She will have access to -
  - Attempt Quizzes assigned to him.
  - View Correct Answers/history of attempted quizzes.
  - View Leaderboard related to his batch.

Use Case

S.no	Use Case	Description
1.	Manage Student batches	Teachers should be able to add or remove students from a particular patch or create a new batch.
2.	Manage Quiz Category	Teachers should be able to add or remove categories according to their choice. Eg – DS algo,System Design
3.	Manage Sub Category	Teachers should be able to add or remove categories according to their choice. Eg – Arrays,Strings.
4.	Manage Category/Sub-category Specific Questions/Answers	Teacher should be able to add or remove questions for a specific category/sub-category.(Code snippets also) He should be able to add answers for the questions added.(Single Correct or Multiple Correct)
5.	Assigning Quiz	Teachers should be able to assign quizzes to any particular batch or any student.
6.	Manage Time limit	Teachers should be able to set time according to their wish.
7.	Manage Result	Teachers should be able to see the results of all the students who attempted as well as of any particular student.
8.	Leaderboard	Teachers should be able to view or filter the leader board according to batches/category/quiz. Students should be able to see the leaderboard only for their batch.

9.	Schedule a quiz	Teachers should be able to schedule quizzes for a particular date/time.
10.	Attempt Quiz	Students should be able to attempt general quizzes available to them. He should be able to attempt a quiz assigned to him/his batch.
11.	View Quiz Duration	Students should be able to view the timer for a particular quiz. Quiz should get auto submit on timeout.
12.	View Planned Quiz	Students should be able to start quizzes only at assigned time.
13.	View Result/Result History	Student should be able to see result of quiz he/she attempted as well as view the history of quiz attempted.(Correct Answers along with chosen answer)
14.	Performance Graph	Teacher- should be able to see the performance graph of any students. Student- should be able to view their performance graph only.

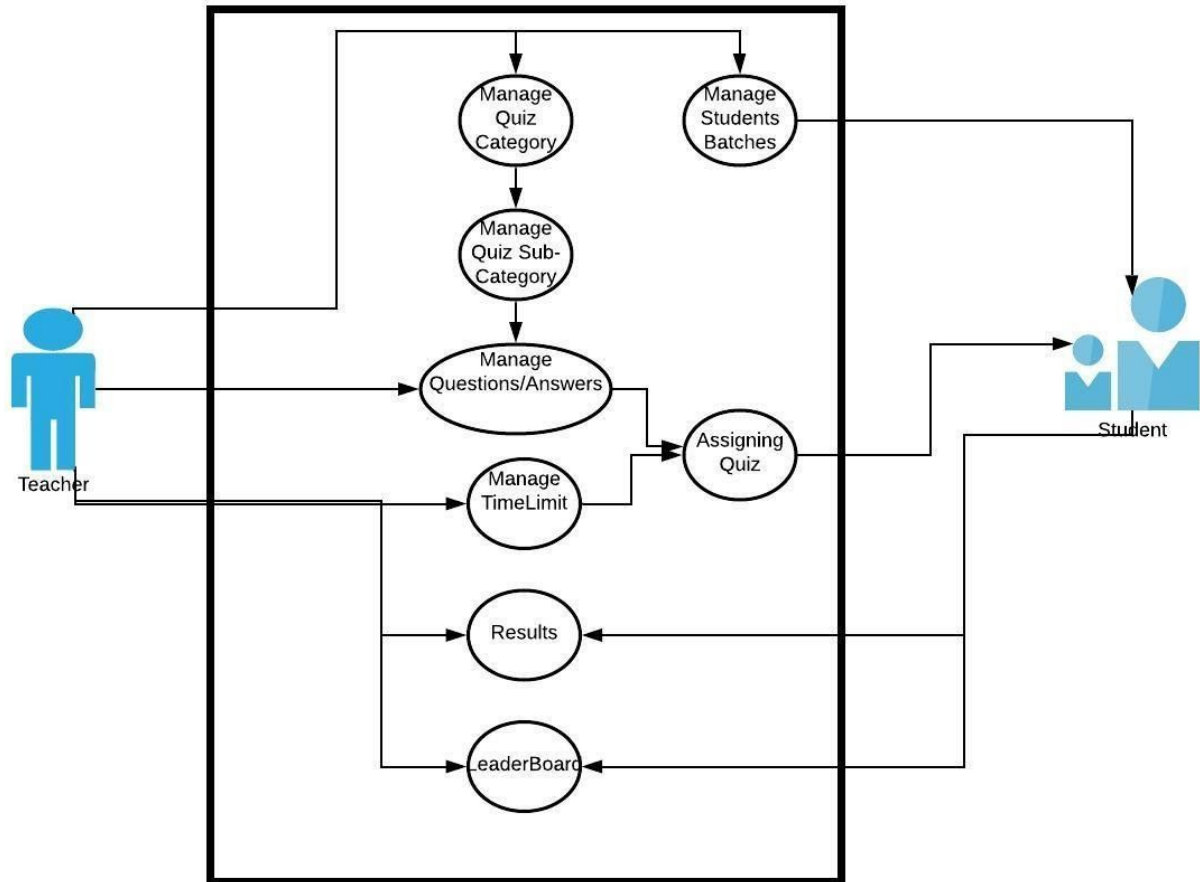Table 1.0 Use Case Table

Use Case Diagram:-

Fig 1.0 Use Case Diagram