DB Project Report

# Project Title:

**Xpert Evaluation System**

# Group Members:

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# Introduction:

The Idea of this project is to introduce a platform for examiners to earn and students to hone their skill by solving various assessments they like.

# Description:

This is a subscription-based platform for students to test their skills and improve themselves by solving assessments and competing against each other in a competitive environment. The main motivation for students is to be at the top of leaderboard with highest score. For the examiners, the website functions like any other freelancing website where they put up their assessments and they get percentage of the revenue generated by students solving their assessment.

# Function:

The main function of this website is to function as automatic checker for the submission of students and then allocate their scores according to the answer schema given by teachers. Once submitted, the students can review the answers and check them against their own. They cannot retake the assessment. The function which still remains to be implemented is the chat feature between examiners and the students who took their assessments. This will be accomplished by creating chat rooms for each teacher

# Technologies:

Frontend languages used are html, bootstrap CSS, JavaScript. Backend is made on flask(python) and database used is sqlite3. The admin panel is made in Vue (JavaScript framework).

# Entities:

* Student: Information of Student (name, username, email, password).
* Examiner: Information of Examiner (name, username, email, password).
* Admin: Information of Admin (name, username, email, password).
* Categories: Information of various categories the assessments belong to.
* ChatRoom: (Not Functional) the idea was to create chat rooms between examiner and all the students who solved the assessment made by that examiner.
* Assessments: This Table has information of the individual assessments (category\_id, name, difficulty, avg\_rating, examiner\_id)
* Questions: This Table has the questions of an assessment (mcq choices, answer, assessment\_id, text of question)
* Solved Assessments: This table keeps track of the student, the assessment they completed, their marks in that assessment and the answers they provided.
* Rate Assessments: This table keeps track of the individual rating (1-5) given to the assessment by the student.