

# Department of Information Science and Engineering Acharya Institute of Technology

Acharya Dr. Sarvepalli Radhakrishnan Road, Bangalore-560107

## **DBMS Mini-Project Synopsis**

1. Project Title: Online MCQ Exam Portal

2. Submitted by:

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**3. Tools used:** Visual Studio Code, MySQL, XAMPP

**Programming languages:** PHP

Front end design: HTML, CSS, JavaScript

**Database:** MySQL

#### 4. Abstract of the Project:

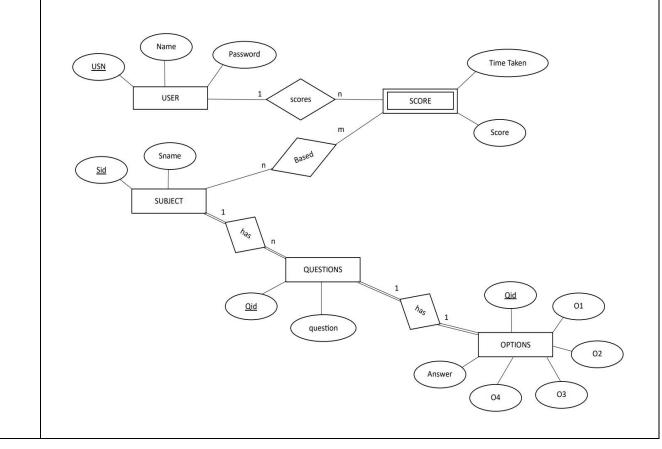
- The "Online MCQ Exam Portal" is a Database Management System (DBMS) mini project designed to streamline and enhance the process of conducting multiple-choice question (MCQ) exams in an online environment.
- This project aims to provide a user-friendly and efficient platform for both administrators and examinees, ensuring seamless exam administration, secure data management, and insightful result analysis.
- Key features of the "Online MCQ Exam Portal" include a dynamic question bank management system, a timer mechanism for exam duration control, and an automated grading system for instant result generation.

• The portal also provides detailed performance analytics, enabling both administrators and examinees to analyse strengths and weaknesses in various subject areas.

## 5. Scope/Objective of the Project:

- Implement a secure login system for administrators and examinees.
- Define access levels and permissions to ensure data security.
- Implement a timer mechanism to control the exam duration.
- Develop tools for administrators and examinees to analyse performance in detail.
- Provide insights into strengths and weaknesses across different subject areas.
- Provide a user-friendly interface for both administrators and examinees to ensure a positive experience.
- Simplify the process of creating, conducting, and managing online MCQ exams for administrators.
- Enable administrators and examinees to analyse performance trends and identify areas for improvement.

## 6. ER Diagram:



| <b>7</b> . | Applications/Advantages of the project:      |
|------------|----------------------------------------------|
|            | 1) Efficient examination management.         |
|            | 2) Remote exam support.                      |
|            | 3) Automated result generation and grading.  |
|            | 4) Immediate feedback.                       |
|            | 5) Personalized assessment report.           |
|            | 6) Random selection of questions.            |
|            | 7) Ranking and history of exam attempted     |
|            | 8) Instructions is provided about the tests. |
|            | 9) Admin can add questions of each subject.  |
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Signature with date

Prof. Pankaj Kumar Prof. Vinutha Raghu

**Project Coordinators** 

Dr. Kala Venugopal

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