Project Report

Department: Information Technology

Academic year: 2022-23   **Division: A**   **Course: Database Lab TY B.Tech**

Title: <u>Online Course Registration.</u>

Group Members:

Participants	Roll Number	Email-Id
Kaushal Bharambe	TYITA012	Kaushal.bharambe20@pccoepune.org
Anushri Bhoyar	TYITA014	Anushri.bhoyar20@pccoepune.org
Anuj Birhade	TYITA017	Anuj.birhade20@pccoepune.org
Yash Chandre	TYITA018	Yash.chandre20@pccoepune.org

Under the guidance of

Prof. Sandhya Waghere

Contents

- **Introduction:-**

Abstract:-

An Online course registration and Management System is course registration system for admin(teacher) and user(student) where admin can add their courses and student can enroll the course offered by admin. Currently there are many applications that have the ability to manage registration online. Some of them are very simple, and more complicated that use current technology. Almost all web-based programming language support the capability to make online registration, such as PHP or .NET provide many options to build intelligence course registration and management system. A good system must be able to provide sufficient information and services needed by user as well as delivering extensive report to the administrator. Online Course Registration System is Web-based registration software that helps you to register courses online. It is ideal for schools, educational camps, corporate training programs, and online training programs. It also provides time to time current status information related to courses. It can help for the student need to register by giving necessary details, for the desired course.

Project Objective :-

The project objective will be focused on developing an online course registration to ensure the effectiveness of the flow of registration. Moreover the system will offer a complete management system that integrated with the online course registration to help the stakeholder for maintaining the flow process of the course.

The registration process can be done online without the need of paperwork anymore. It is also help the student to get more information about the course process while they enrolled.

Project Scope :-

Administrator /Instructor

The Administrator for the system will be divided to several privileges on how they can use the system. Administrator for example, have all the privileges such as adding instructor, adding courses, update information, adding downloadable material, registration module, etc., but Instructor only have several privileges on what they can do and not do in the Online course registration and management system.

Student/User

Student will get a more accessible way in order to register and booked the seat for the courses. They also can get updates from administrator keep track on the progress of the course.

Software Requirement System

Requirement specification:

- ❖ Hardware Requirement :

  Server Site:

  - WINDOWS 8.1,13 5H GEN,2,2
  - GHZ 4GB RAM,64 BIT PROCESSOR

- ❖ Software Requirement:

  Client side :

  - Browser and Internet
  - Connection

  Server side :

  - Server: localhost via TCP/IP
  - Server version: 5.1.41
  - Protocol version: 10
  - User: root@localhost
  - MySQL charset: UTF-8 Unicode (utf-8)

XAMPP Software

XAMPP is an abbreviation where X stands for Cross-Platform, A stands for Apache, M stands for MYSQL, and the Ps stand for PHP and Perl, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl.

XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself. Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL.
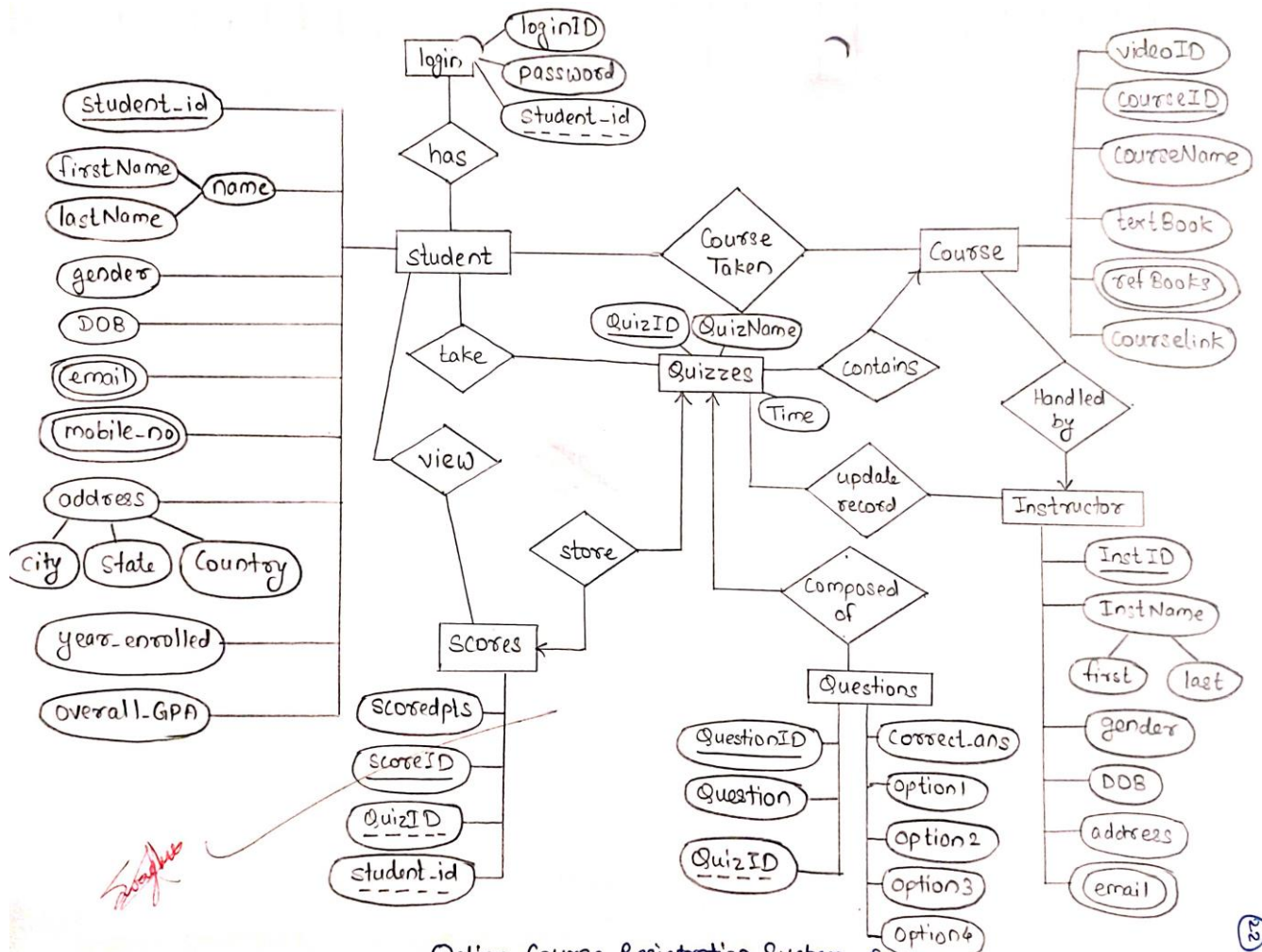
Components of XAMPP

1. **Cross-Platform:** Different local systems have different configurations of operating systems installed in it. The component of cross-platform has been included to increase the utility and audience for this package of Apache distributions. It supports various platforms such as packages of Windows, Linus, and MAC OS.

2. **Apache:** It is an HTTP a cross-platform web server. It is used worldwide for delivering web content. The server application has made free for installation and used for the community of developers under the aegis of Apache Software Foundation. The remote server of Apache delivers the requested files, images, and other documents to the user.

3. **MariaDB:** Originally, MySQL DBMS was a part of XAMPP, but now it has been replaced by MariaDB. It is one of the most widely used relational DBMS, developed by MySQL. It offers online services of data storage, manipulation, retrieval, arrangement, and deletion.

4. **PHP:** It is the backend scripting language primarily used for web development. PHP allows users to create dynamic websites and applications. It can be installed on every platform and supports a variety of database management systems. It was implemented using C language. PHP stands for **Hypertext Processor**. It is said to be derived from Personal Home Page tools, which explains its simplicity and functionality.

5. **Perl:** It is a combination of two high-level dynamic languages, namely Perl 5 and Perl 6. Perl can be applied for finding solutions for problems based on system administration, web development, and networking. Perl allows its users to program dynamic web applications. It is very flexible and robust.

6. **phpMyAdmin:** It is a tool used for dealing with MariaDB. Its version 4.0.4 is currently being used in XAMPP. Administration of DBMS is its main role.

7. **OpenSSL:** It is the open-source implementation of the Secure Socket Layer Protocol and Transport Layer Protocol. Presently version 0.9.8 is a part of XAMPP.

8. **XAMPP Control Panel:** It is a panel that helps to operate and regulate upon other components of the XAMPP. Version 3.2.1 is the most recent update. A detailed description of the control panel will be done in the next section of the tutorial.

9. **Webalizer:** It is a Web Analytics software solution used for User logs and provide details about the usage.

10. **Mercury:** It is a mail transport system, and its latest version is 4.62. It is a mail server, which helps to manage the mails across the web.

11. **Tomcat:** Version 7.0.42 is currently being used in XAMPP. It is a servlet based on JAVA to provide JAVA functionalities.

12. **Filezilla:** It is a File Transfer Protocol Server, which supports and eases the transfer operations performed on files. Its recently updated version is 0.9.41.
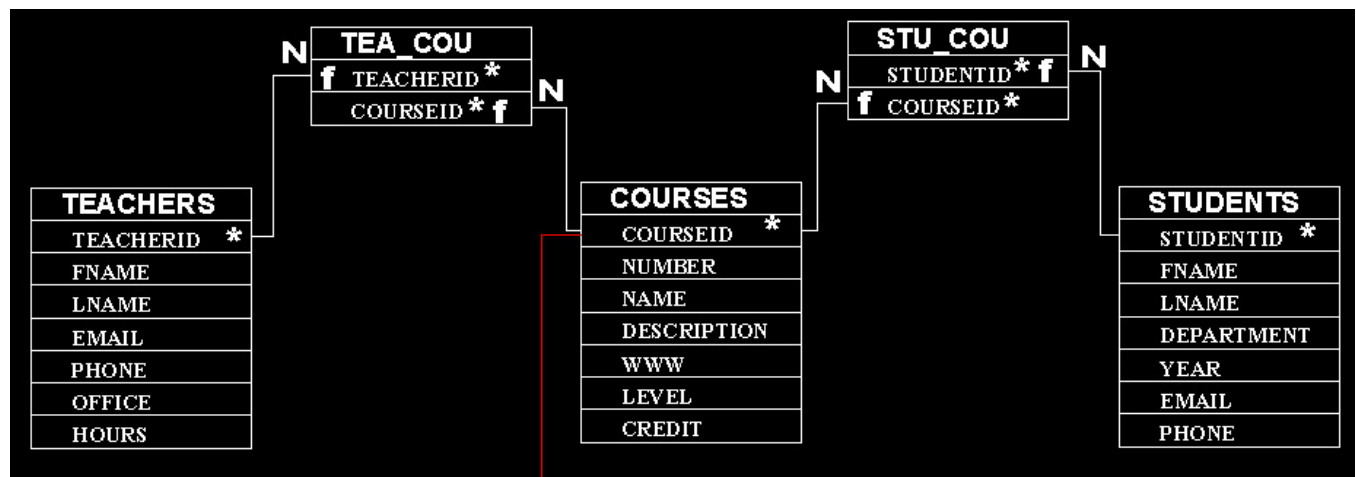
Brave

A browser is a software program that is used to explore, retrieve, and display the information available on the World Wide Web. This information may be in the form of pictures, web pages, videos, and other files that all are connected via hyperlinks and categorized with the help of URLs (Uniform Resource Identifiers). For example, you are viewing this page by using a browser. A browser is a client program as it runs on a user computer or mobile device and contacts the webserver for the information requested by the user. The web server sends the data back to the browser that displays the results on internet supported devices. On behalf of the users, the browser sends requests to web servers all over the internet by using HTTP (Hypertext Transfer Protocol). A browser requires a smartphone, computer, or tablet and internet to work.

Data Modeling Using ER

Online Course Registration System ER Diagram

Relational Database Design

Database Implmentation

A Database Management System (DBMS) is a software program that provides Application Programming Interfaces (APIs) to an underlying physical data store (stored on disk, or even in RAM) for use by client applications. Any application (with rare exceptions) that stores, access, and manipulates data stored on disk, uses a DBMS to manage that access, rather than directly interacting with the underlying data files. DBMS Tutorial provides basic and advanced concepts of Database. Our DBMS Tutorial is designed for beginners and professionals both. Database management system is software that is used to manage the database.

Conclusion :

This project was developed keeping in mind the functionalities for students and instructors. This project provides all the functionalities specified in the project document. We tried to simulate the real world environment of course registration system for students and instructors.

Future Scope:-

More Statistics on data

Alumni specific pages
Password recovery
Administrators

Source code link

https://github.com/Kaushal-2610/Online-Course-Registration-System/tree/main/onlinecourse