

Rajiv Gandhi University of Knowledge Technologies

R.K Valley, Y.S.R Kadapa (Dist)-516330

A
project report
on
ONLINE LEARNING

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This project report has been submitted in fulfilment of the requirements for the Degree of Bachelor of Technology in software Engineering.

Feb - 2023

Rajiv Gandhi University of Knowledge Technologies
IIIT, R. K. Valley, YSR Kadapa (Dis) -516330



CERTIFICATE

This is to certify that report entitled “**Online Learning**” Submitted by V.Vamsridhar Reddy(R171002), Panathala Pavana Narasimha Prathap (R171049) in partial fulfilment of the requirements of the award of bachelor of technology in computer science engineering is a bona fide work carried by them under the supervision and guidance.

The report has been not submitted previously in part or full to this or any other university or institute for the award of any degree or diploma.

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HEAD OF THE DEPARTMENT

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HOD OF CSE

Submitted for the practical examination held on.....

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of the people who made it possible and who's constant guidance and encouragement crown all the efforts success.

We would like to express my sincere gratitude to **Ms.Vempalli Sravani**, my project guide for valuable suggestions and keen interest throughout the progress of our project.

We are grateful to **Mr. N. Satyanandram HOD CSE**, for providing excellent computing facilities and congenial atmosphere for progressing our project.

At the outset, we would like to thank **Rajiv Gandhi University of Knowledge Technologies (RGUKT)**, for providing all the necessary resources and support for the successful completion of my course work.

DECLARATION

We hereby declare that this report entitled “**Online Learning**” Submitted by us under the guidance and supervision of **Ms.Vempalli Sravani**, is a bonafide work. We also declare that it has not been of Submitted previously in part or in full to this University or other institution for the award of any degree or diploma.

Date: - 08-03-2023

Vamsridhar Reddy (R171002)

Place: - RK Valley

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ABSTRACT

Online learning offers teachers an efficient way to deliver lessons to students. Online education is that it allows students to attend classes from any location of their choice. It also allows schools to reach out to a more extensive network of students, instead of being restricted by geographical boundaries. Additionally, online lectures can be recorded, archived, and shared for future reference. This allows students to access the learning material at a time of their comfort. Additionally, all the course or study materials are available online, thus creating a paperless learning environment which is more affordable, while also being beneficial to the environment.

In this work the proposal is made to implement Online Learning. In this project I tried to develop a computerized and web based Online-Learning platform. Online Learning project is an intranet Web based application which can be accessed all over the organization. This application is automated software application. Each student is provided with unique id and password for log in to system and can access the respected course. Admin will update the course from time to time. This method will improve the process of Learning management inside organization by saving time and resources. This project will reduce the paperwork and maintain record in an efficient and systematic way.

- Admin has the right to maintain the entire database of students.
- Admin update the courses regularly.

INTRODUCTION

Online Learning is web based technology which brings up various diagnosis works online. Here users are first allowed to register on the website and provide personal information information. Once registered with their address and contact details, the users may now access the content. The user will select the respective course and can start learning. In Online Learning we use HTML, CSS, JAVA SCRIPT, PHP and MySQL database

This database can be accessed any time by the admin. The admin of the system can add new courses by updating the content from time to time. The admin only can authorized in adding new courses.

Following components make this project useful: -

- User can select respective course.
- The database is secured. Student performance can increase by accessing the course online.

PURPOSE

The benefits of Online Learning include 3 main parts mainly as **Personalized Education** **Reduced Costs**, **More Free Time**.

Personalized Education : Students who find their focus suffers from classroom activity may benefit from online classes. Students who aren't as assertive may have better opportunities to participate in class discussions when communicating online

Reduced Costs: Education can be expensive, but virtual learning can provide a number of ways for students to save. Not having to commute to campus can help you save on transportation costs.

More Free Time: Because your schedule isn't dictated by classes, you can spend more time doing the things you want. Plus, in addition to saving money, not having to commute also means saving time because you don't need to travel to-and-from campus. That extra time can be used in any way you want, such as focusing on your career or spending time with your family.

OVERALL DESCRIPTION

- A default student and faculty can be generated by through this system.

In this project we have 2 modules i.e:

1. Admin

- **Login:** Need to enter login credentials into web site by the admin or the authorized person.
- **Add / View programs:** Can add a new programs like content into the system. Admin can view login details.
- **Add of videos:** Can add,delete,update a new videos for each subject
- **Add quizzes:** Can register a new quiz into the system and also can add/update/delete the quizzes.
- **Database:** System allows admin to view students' login details.

2. User

- **Login:** Here, user need to enter the login credentials into the application in order to login.
- **Access course:** User can read the content watch videos and after that user Can take the quiz

EXISTING SYSTEM

Our traditional model of education which is an offline education system was hit severely by the covid-19 pandemic.Students can not understand the core concepts clearly through offline education.Offline education is costlier which makes burden for the poor students. Students are not able to learn how to do self-study as they are completely dependent on their teachers.

DRAWBACKS OF EXISTING SYSTEM

- Lectures once delivered cannot be repeated.
- Lack of advanced technology.
- Limited choice of courses.
- The offline mode of education is more expensive and everyone is not able to afford it.
- Those students who are not able to attend classes regularly have no option but to drop out.

1. Lectures can not be repeated:

Studying at any offline institute means that the lectures which have been delivered cannot be repeated.

2. Lack of advanced technology:

Students who have been doing offline education since the beginning may not have exposure to technology.

3. Limited choice of courses:

With offline studies, you have to search for the required institute and then consider that you are able to go there, and also your admission is subject to their qualification criteria.

4. Expensive mode of Study:

This it is not always feasible for everyone to bear with offline education rather in their case online classes are a better option for them.

PROPOSED SYSTEM

- Considering the drawbacks of existing system, the proposed system has been implemented.
- Proposed system is accessed by two entities namely, Admin and user.
- Admin need to login with their valid login credentials first in order to access the web application.
- After successful login, Admin has the right to create and grant all the permissions in the application.
- Admin can perform tasks such as adding new courses like content,videos,quiz.
- After successful user registration, students can select respective courses.
- Faculty can view students login details whenever required.
- It is designed with highly authentication, provides more security.

IMPLEMENTATION

The online learning system has been designed with latest technology of servlets and front-end HTML, CSS, JavaScript. In order to increase the use of the application and make it easy to use and attractive, Bootstrap and its CSS libraries are used. The system uses MySQL as a database management system for the database, and the techniques for selecting a different database for the system such as phpMyAdmin. The basic parts of the system are Admin and user.

This website is deployed using localhost so that we can access by browser. And finally the following server is used to run the localhost project.

Launch an Wampserver64

Wampserver is a Windows web development environment. It allows you to create web applications with Apache2, PHP, and a MySQL database. Alongside, phpMyAdmin allows you to manage easily your databases. The software acts together to create a local web server environment, serving web pages on localhost.

❖ SOFTWARE COMPONENTS

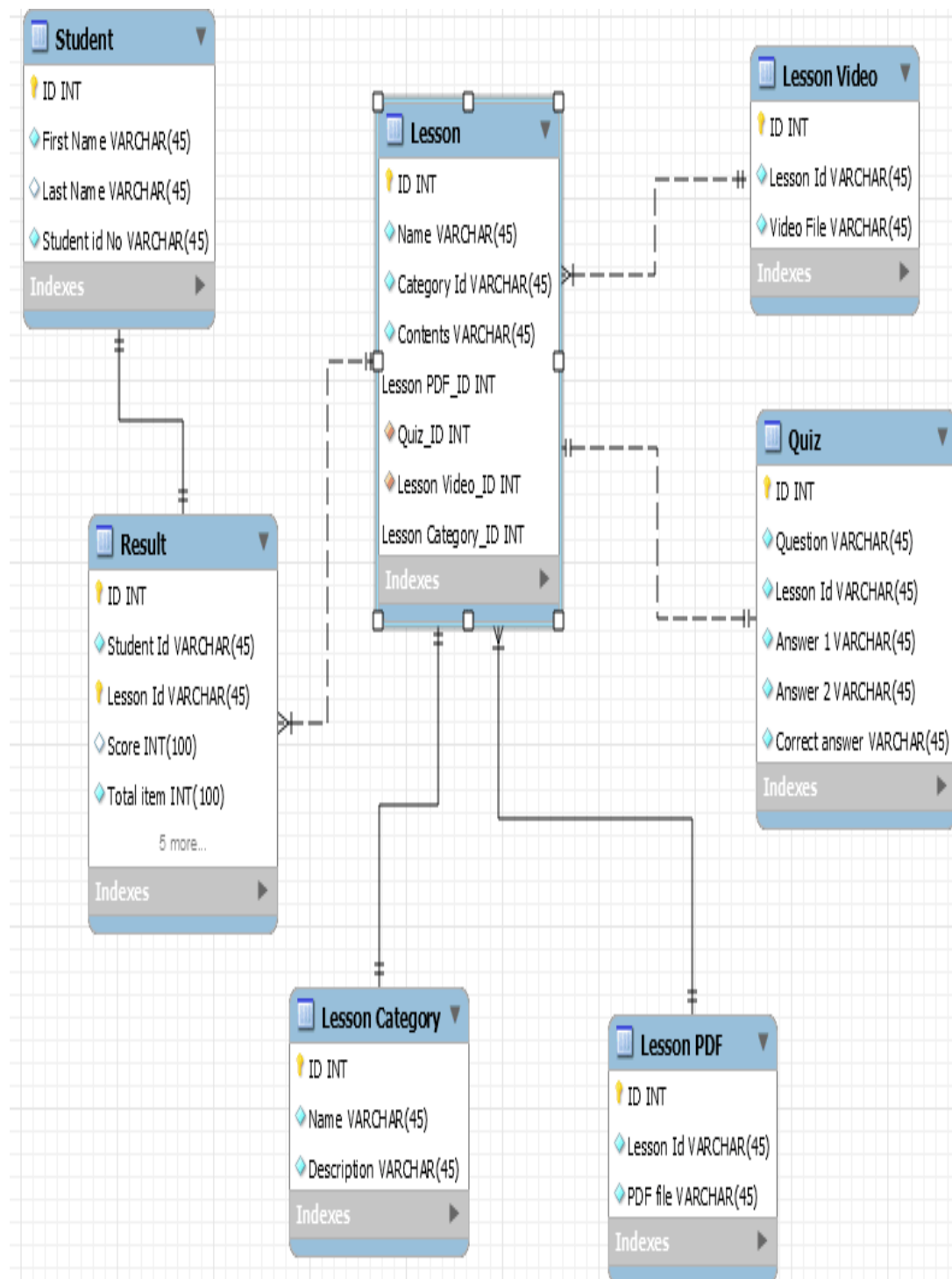
- Windows 7 or above
- SQL Server 2008
- Wamp server
- Technologies: - HTML, CSS, JavaScript, PHP, MySQL, Bootstrap

❖ Hardware Components:

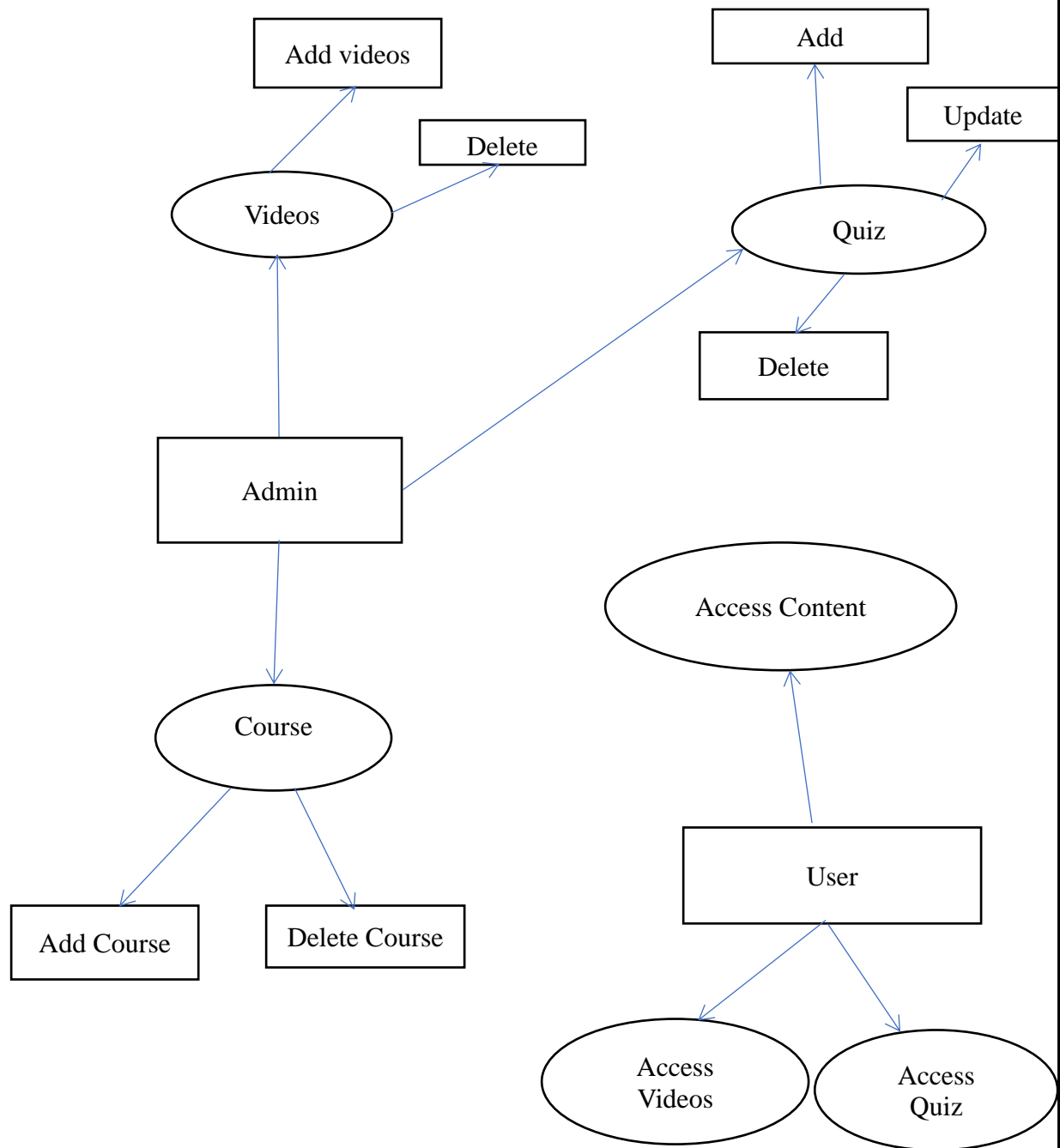
- Processor – Core i5
- Hard Disk – 160 GB
- Memory – 2GB
- Internet Connection

WORKING MODEL

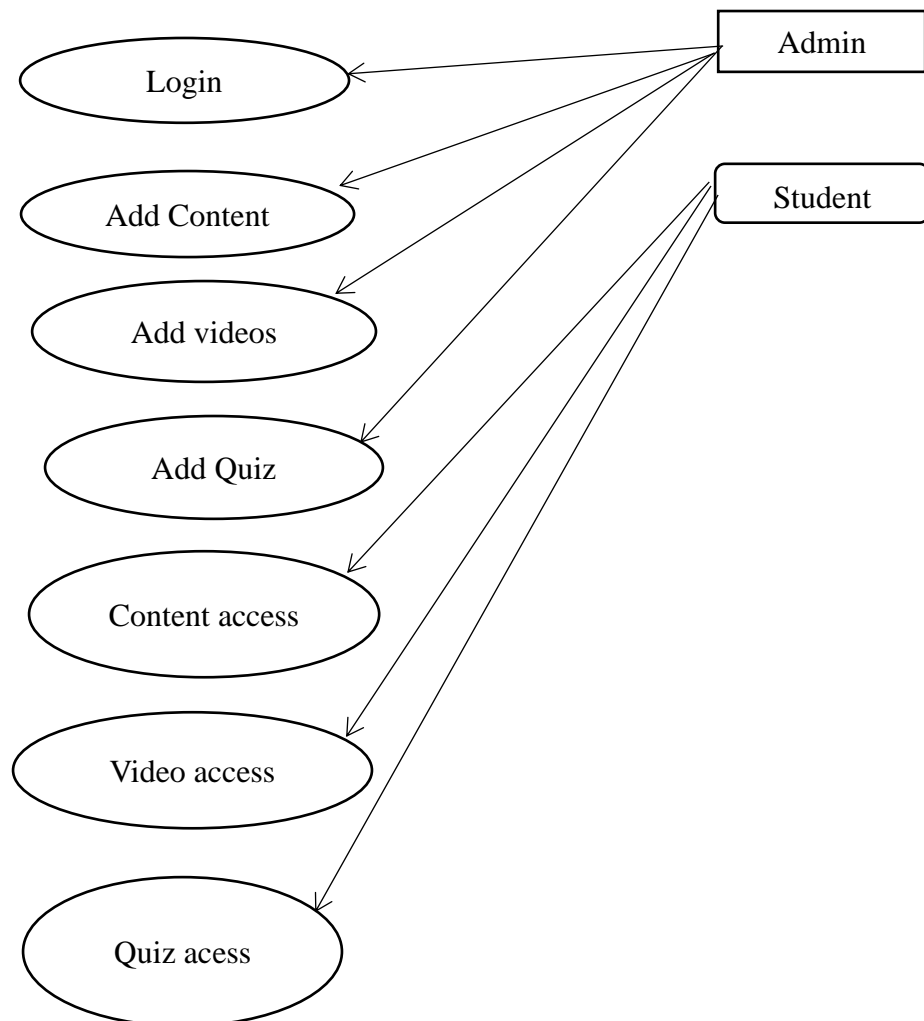
- **E-R DIAGRAM**



- **2 Level Diagram**



- **USE CASE DIAGRAM:**



Code

```
<?php

session_start();

?>

<!DOCTYPE html>
<html>
<head>
    <link href="https://fonts.googleapis.com/css?family=Aleo"
rel="stylesheet">

    <link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro"
rel="stylesheet">
    <title>Unique Developer</title>
    <!--Linking google fonts-->
    <link href="https://fonts.googleapis.com/css?family=Lobster"
rel="stylesheet">

    <!--font-awesome start-->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

    <!--font-awesome ends-->

    <!--css file link-->

    <link rel="stylesheet" type="text/css" href="css/login.css">

    <!--favicon setting-->
    <link rel="shortcut icon" type="text/css" href="img/mylogo.png">

    <!-- Latest compiled and minified CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

    <!-- jQuery library -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

    <!-- Latest compiled JavaScript -->
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

    <!-- Google Client id to integrate google signin-->
```

```

    <meta name="google-signin-client_id" content="808976312783-
k901nr0n50did222qa275k0umvn4rpi1.apps.googleusercontent.com">

    <!-- Google JavaScript file to integrate google signin-->
    <script src="https://apis.google.com/js/platform.js" async de-
fer></script>

    <!-- Google custom JavaScript file to integrate google signin-->
    <script type="text/javascript" src="js/google_signin.js"></script>

    <!-------email notification----->

<script type="text/css">

</script>

</head>
<body>

    <!---Navigation Starts  ----->

    <nav class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <!-------Responsive Button---->
                <button type="button" class="navbar-toggle" data-tog-
gle="collapse" data-target="#navi">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>

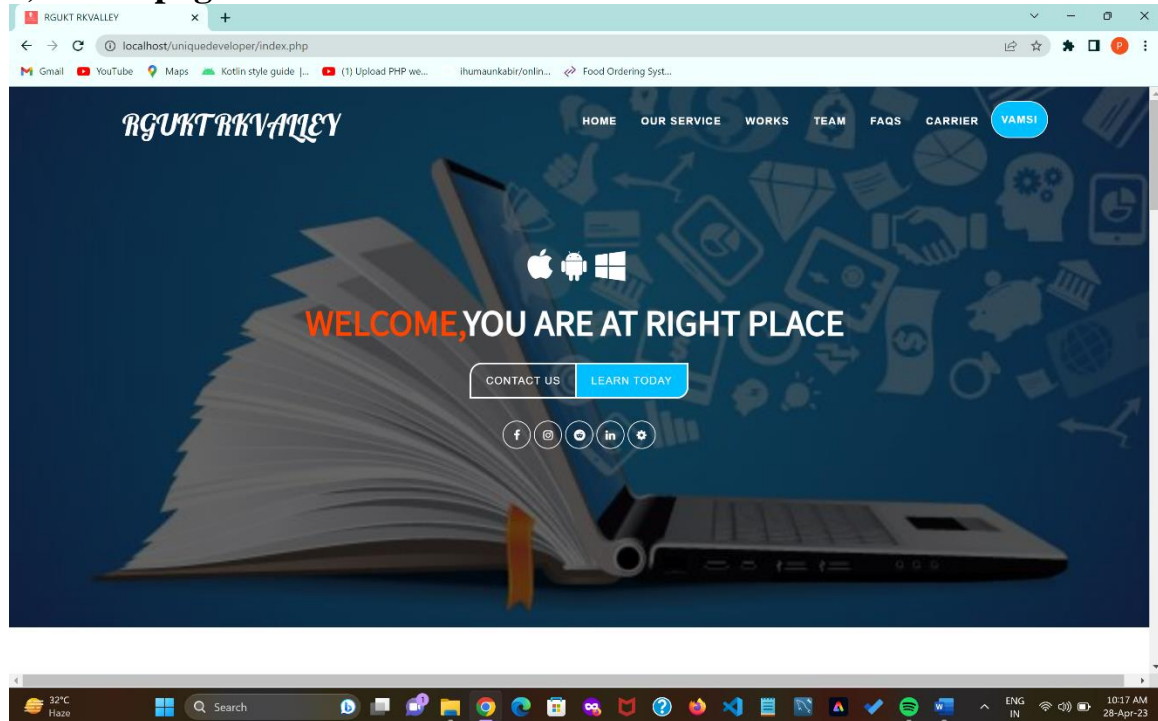
                </button>

                <h1 style="color: white;margin-top: 10px;"
id="myhead">Unique Developer</h1>
            </div>
            <div class="collapse navbar-collapse" id="navi">
                <!-------Navigation menus starts----->
                <ul class="nav navbar-nav navbar-right">
                    <li> <a href="">Home</a></li>
                    <li> <a href="">Our Service</a></li>
                    <li> <a href="">Works</a></li>
                    <li> <a href="">Team</a></li>

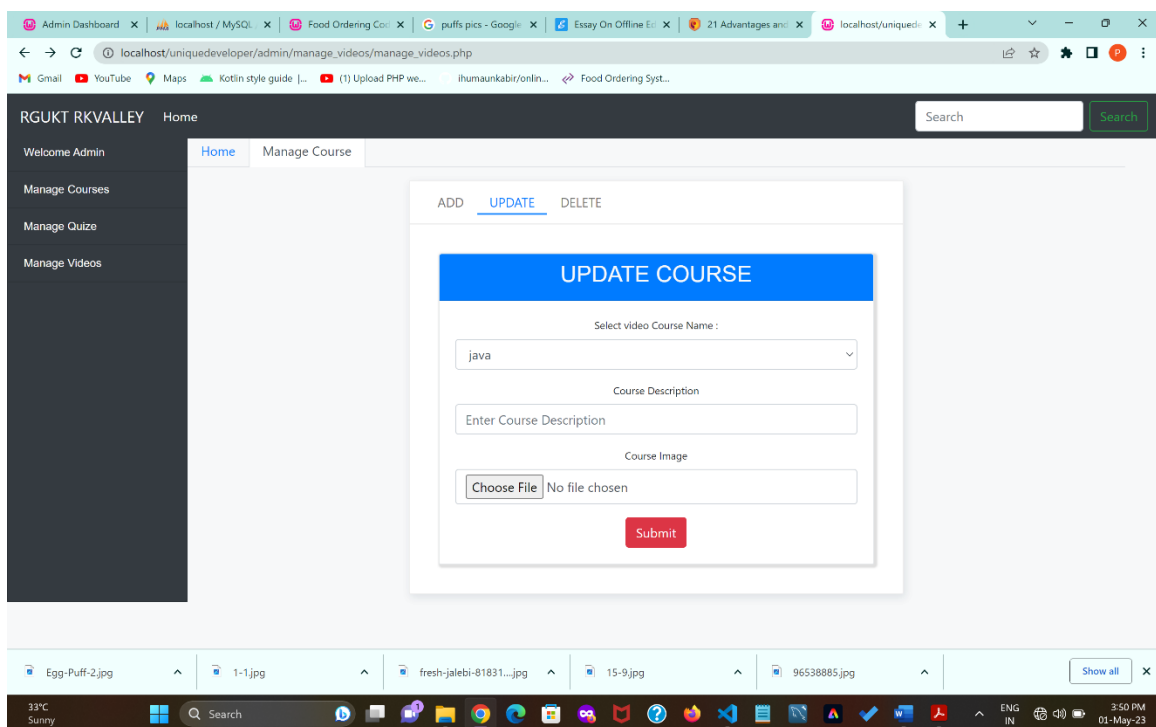
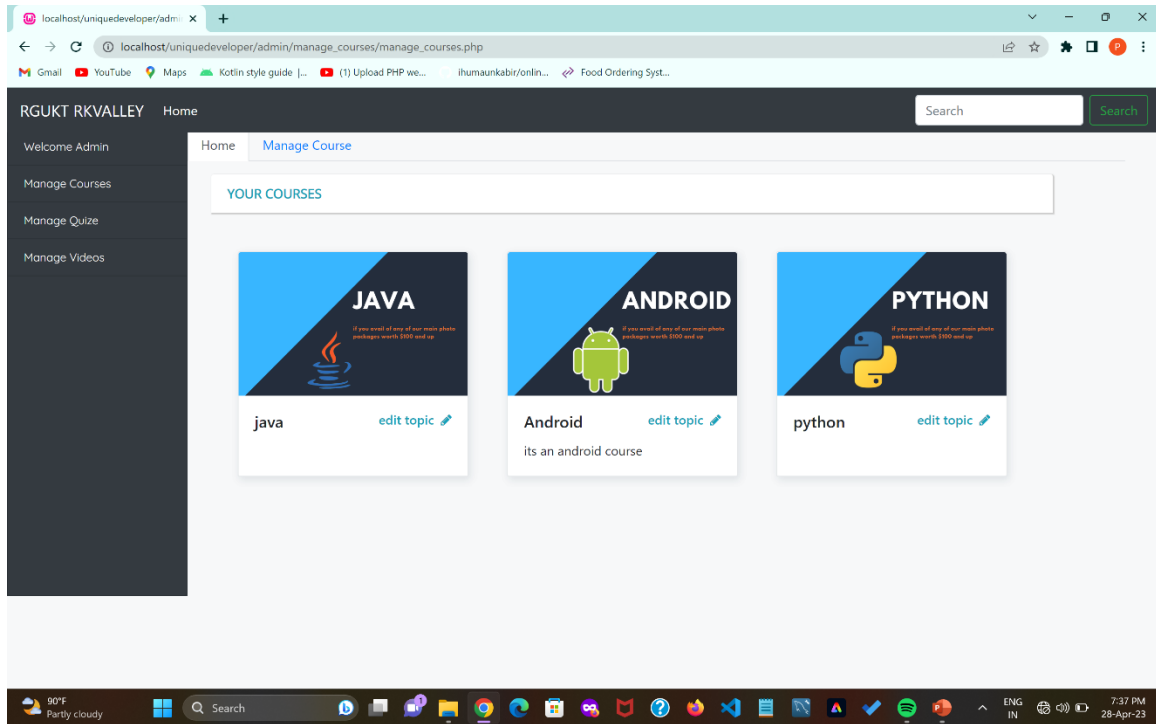
```

OUTPUT

1) Home page



2) Admin Page



FUNCTIONAL TESTING

Implementation and System Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing, 1. Unit testing 2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses .A procedure to call the functions of the unit under test with appropriate parameters.

1. Test for the admin module

Testing admin login form: This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details

2.Testing user login form: This form is used for log in of user of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details

Integration Testing:

In the Integration testing we test various combination of the project module by providing the input.The objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes other module.

CONCLUSION

- This project helps to access the data via web browser through the internet.
- The system can be used for schools, college, or universities for Online Learning.
- Data will be highly secured, it saves user time, cost and institute resources.
- Maintaining the all secured and database on the public server which will be accessible anytime, anywhere.
- It is very efficient as compared to storing all the data in the physically in the record books.

REFERENCES

1. <https://www.w3schools.com/php/default.asp>
2. <https://www.w3schools.com/MySQL/default.asp>
3. <https://www.w3schools.com/bootstrap4/default.asp>

-----THANK YOU-----