Sarvajanik Education Society

Shree Ramkrishna Institute of Computer Education and Applied Sciences

Behind P.T Science College, M.T.B. College Campus, Athwalines, Surat-395 001.

A Software Engineering Project On

E-Learning Website

as the partial fulfillment of

Semester -VI study

for the degree of

Bachelor of Science (Computer Science)
(Affiliated to Veer Narmad South Gujarat University)

during the academic year 2022-2023.

Developed By:

Dharmi Italiya

Guided By:

Jayesh Pushtiwala

Sarvajanik Education Society

Shree Ramkrishna Institute of Computer Education and Applied Sciences

Behind P.T. Science College, M.T.B College Campus, Athwalines, Surat-395 001.

CERTIFICATE

DEPARTMENT OF COMPUTER SCIENCE

This is to certify that

Student name — Dharmi Italiya

Exam no — 20163

has / have successfully completed his / her / their software engineering project work entitled

E-Learning Website

as the partial fulfillment of

Semester -VI study

for the degree of

Bachelor of Science (Computer Science)

(Affiliated to Veer Narmad South Gujarat University)

during the academic year 2022-2023.

jayesh

Internal Project Guide

jayesh

HOD

Dept. of Computer Science

Date: 23/05/2023

Place: Surat

University Examination:

Examination No. : 20163

Signature of External Examiners: G.G.Badbasla

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1. Introduction System Profile

- Project Title =======> E-Resource System
- Organization =======> Shree Ramakrishna Institut Of Education and Applied Sciences.
- Front -End tool =======> Visual Studio 2019(ASP.NET)
- Back -End tool =======> SQL Server Database
- Project Category =======> Source System
- Operating System =======> Windows 10 or above
- Project Duration =======> 10 Month
- Project Guided By =======> Jayesh Pushtiwala
- Developed By =======> Dharmi Italiya

2. System Introduction

2.1 System Definition, Objective and scope

2.1.1 System Information: -

- Our project E-Learning system is develop for all who want learn something new. they can watch them and whenever they required, they Can Retrieve them. i.e. some useful websites links (for tutorial purpose) for both of them.

- This system is most useful for the colleges, schools or any university's students .

- At the present time, the manage video link and some important online compailer its much Complicated.

- We have two modules in this system. First is the admin and second is the uaer.

- Here admin add some important website related some courses they add this Website Link according subject.

- In this system admin have rights to add/update/delete courses,categorys,details,MCQ Questions.

- In this application student can register in system and after the login they can view the videos related selected courses. We use the SQL server database for the This application

2.1.2 PROJECT OBJECTIVE: -

- Admin can add/update /delete courses,categorys,details of video,MCQ Questin.
- User view the video of selected courses.
- User also search the videos.

2.1.3 System Scope: -

- Login function accessed by only admin.
- Admin not allow to delete any user.

• 2.2 Hardware & Software Requirements: -

Hardware:-

- Processor : Intel core i3 or above
- Ram : 2 GB or above
- Hard-Disk : 100 GB or above

Software:-

- Backend : SQLserver Database.
- Frontend : Visual Studio 2019.
- Operating System : Windows 8 or above.

3. REQUIREMENT ANALYSIS

3.1 Expected working of System

• Admin Module:

- Admin can login with userid and password which is already store in System database. Admin can view list of users .Admin also add/delete courses , category and details about videos.

- View Users
- Manage Course
- Manage Category
- Manage Course Details

- Manage MCQ Questions

•User Module:

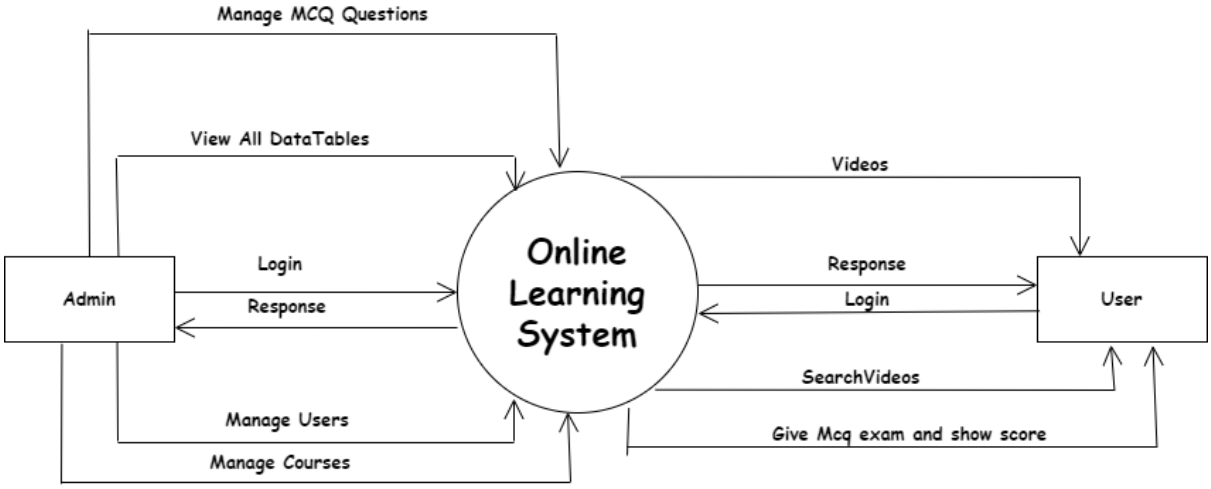
- User can register it self with only userid and password after that user can login with same userid and password. User also view the videos related to courses which they selected.

- View Course
- View Category
- View Course Details And Videos
- Search Videos With Help Of Category

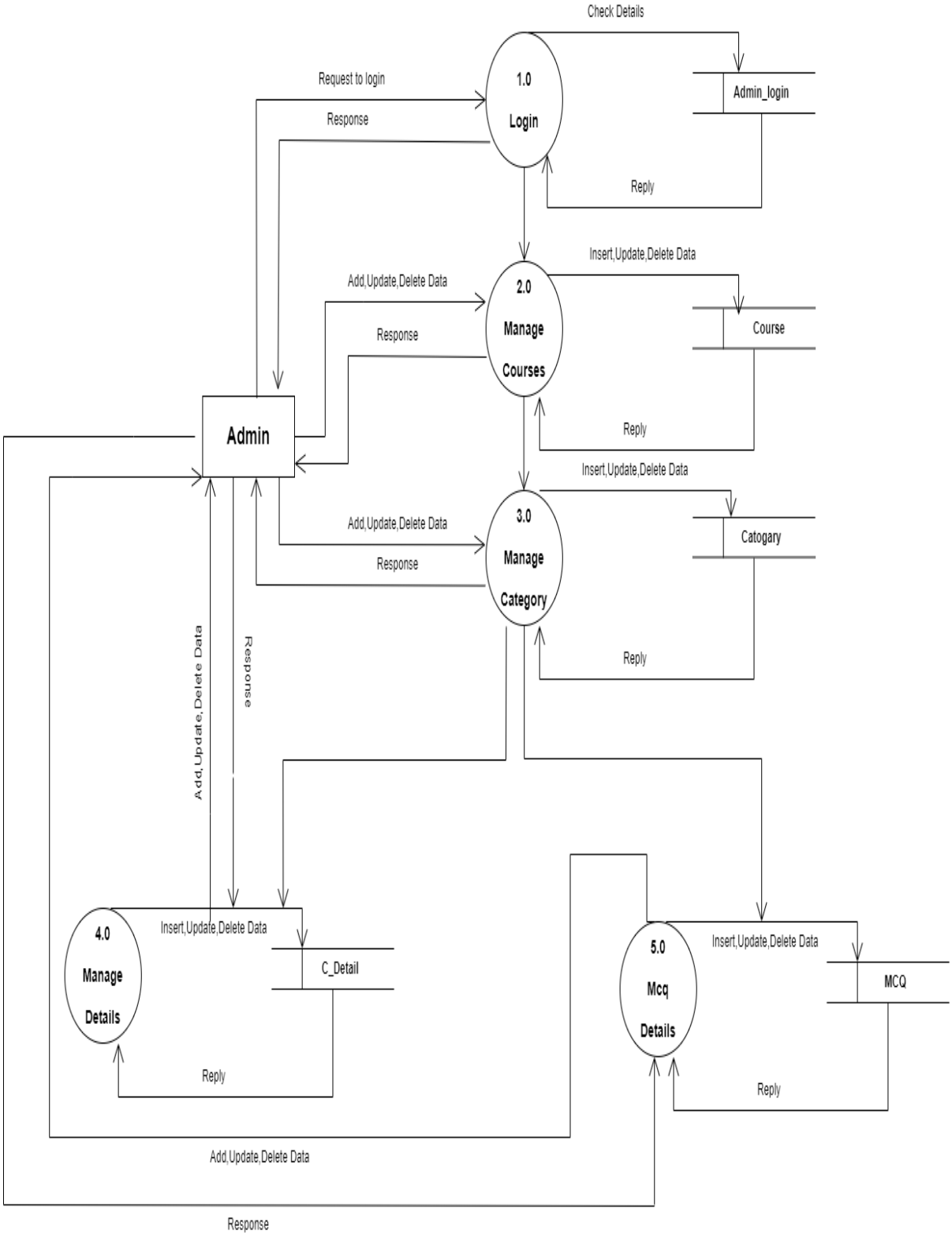
•Login Module: Admin and User Login in this System.

3.2 Data Flow Diagrams (DFD)

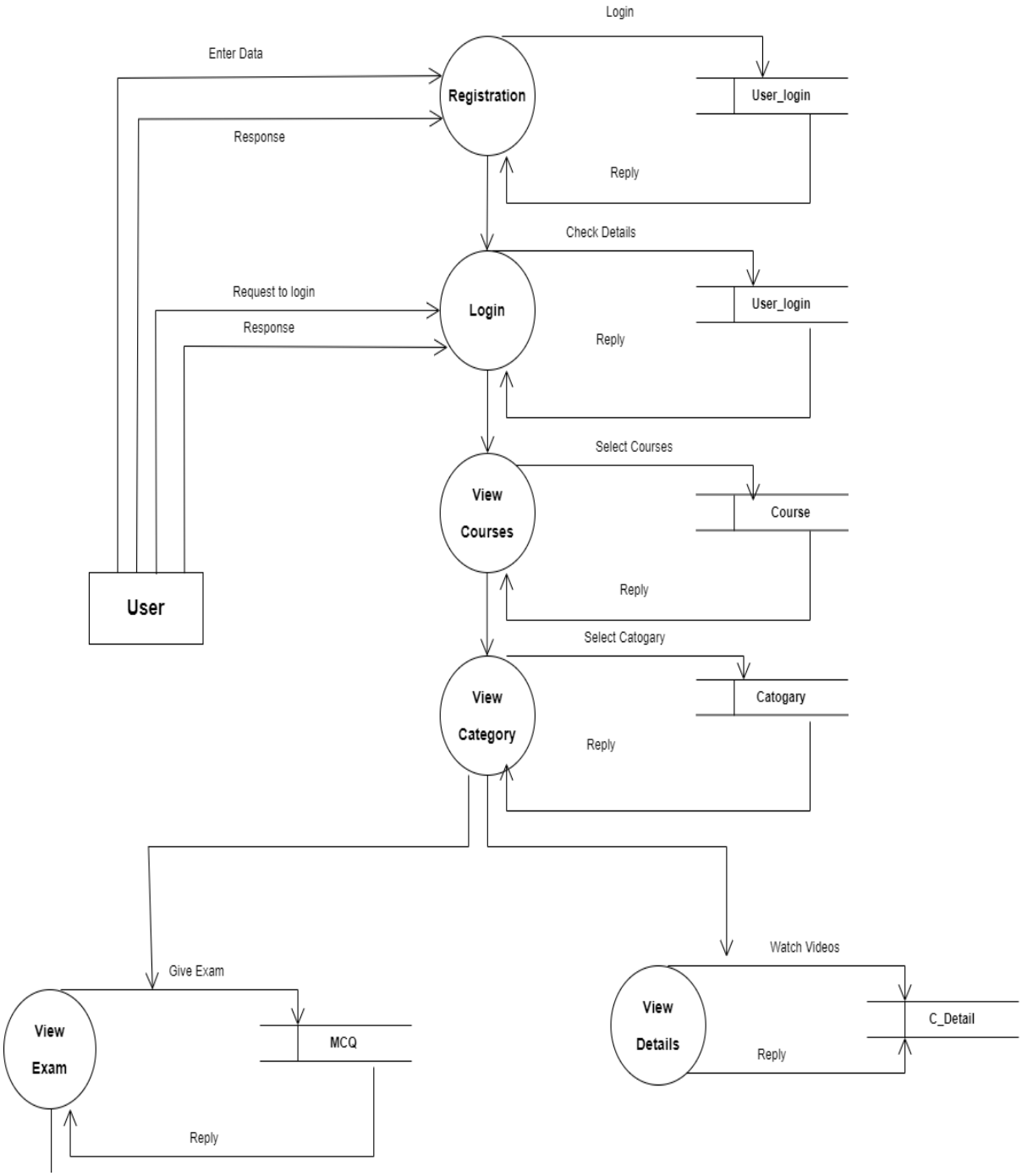
• CONTEXT LEVEL DFD:-



• 1 ST LEVEL DFD FOR ADMIN:-



• 1 ST LEVEL DFD FOR USER:-



3.3 Process Specification

• PROCESS 1.0 FOR ADMIN:

Name:	Login
Description:	This process is save all the information of the Admin like id And Password.

• PROCESS 1.0 FOR USER:

Name:	Registration
Description:	This process is save all the information of the User like Userid And Password.

• PROCESS 2.0 FOR ADMIN:

Name:	Manage Courses
Description:	Admin Can Insert , Update And Delete Courses

• PROCESS 2.0 FOR USER:

Name:	Login
Description:	This process is Use information of Registration Process For Login

• PROCESS 3.0 FOR ADMIN:

Name:	Manage Category
Description:	Admin Can Insert , Update And Delete Category Based On Courses

• PROCESS 3.0 FOR User:

Name:	View Courses
Description:	Users Can Select The Courses Which They Want.

• PROCESS 4.0 FOR ADMIN:

Name:	Manage Details
Description:	Admin Can Insert , Update And Delete Details Based On Courses And Category

• PROCESS 4.0 FOR User:

Name:	View Category
Description:	Users Can Select The Category Which They Want.

• PROCESS 5.0 FOR ADMIN:

Name:	Manage MCQ
Description:	Admin Can Insert , Update And Delete MCQ Based On Courses And Category

• PROCESS 5.0 FOR User:

Name:	View Details
Description:	User Can Watch The Videos Related To The Selected Courses And Category

• PROCESS 6.0 FOR User:

Name:	View Mcq For Exam
Description:	User Can give exam of Related To The Selected Courses And Category

• PROCESS 7.0 FOR User:

Name:	View Result of Given Exam
Description:	User can view score

3.4 Data Dictionary:

• Admin Table:

Name:	Admin Details
Alias:	Admin_login
Where used/How used:	Data use for particular login For Admin
Content Description:	Email_id+Password

• User Table:

Name:	User Details
Alias:	User_login
Where used/How used:	Data use for particular login For Uaser
Content Description:	Email_id+Password

• Course Table:

Name:	Select Course
Alias:	COURSE
Where used/How used:	Select Course use for selection of Course
Content Description:	C_ID+C_NAME

• Category Table:

Name:	Select Category
Alias:	Category
Where used/How used:	Select Category use for selection of Category
Content Description:	CAT_ID+CAT_NAME+C_ID

• Details Table:

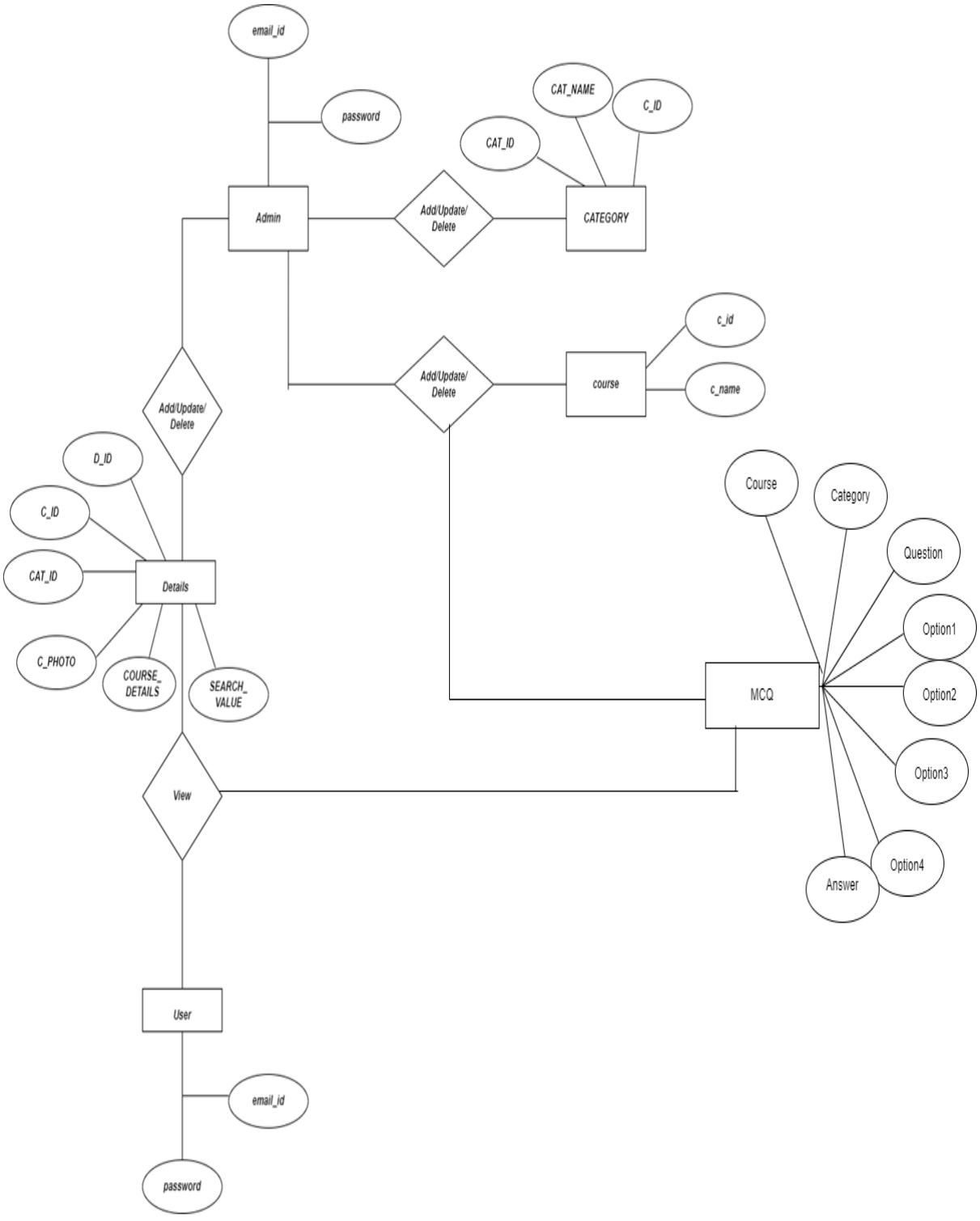
Name:	Watch Videos
Alias:	Details
Where used/How used:	Watch Videos use for watch videos with selected course and category
Content Description:	D_ID+C_ID+CAT_ID+C_LINK+C_PHOTO +COURSE_DETAILS+search_value

• MCQ Table:

Name:	Show Mcq
Alias:	MCQ
Where used/How used:	Can give exam of Related To The Selected Courses And Category
Content Description:	Id + C_ID +CAT_ID+ QUESTION +O1 +O2 +O3+O4+ANSWER

4. Design

4.1 ER Diagram :



4.1 Database Design

➢ Table Name: Admin_login

Field Name	Data Type	Constraints	Field Size	Description
Email_id	NVARCHAR	Primary Key	50	Contains ID of Admin
Password	NVARCHAR		50	Contains Password of admin

➢ Table Name: Course

Field Name	Data Type	Constraints	Field Size	Description
C_ID	Int(Auto Number)	Primary Key		Contains ID of Course
C_NAME	nvarchar		50	Contains name of Course

➢ Table Name: Category

Field Name	Data Type	Constraints	Field Size	Description
CAT_ID	Int(Auto Number)	Primary Key		Contains ID of Category
CAT_NAME	nvarchar		50	Contains name of Category
C_ID	Int	Foreign Key		Contains ID of resources data Course

➢ Table Name: User_login

Field Name	Data Type	Constraints	Field Size	Description
Email_id	NVARCHAR	Primary Key	50	Contains ID of User
Password	NVARCHAR		50	Contains Password of User

➢ **Table Name: C_DETAILS**

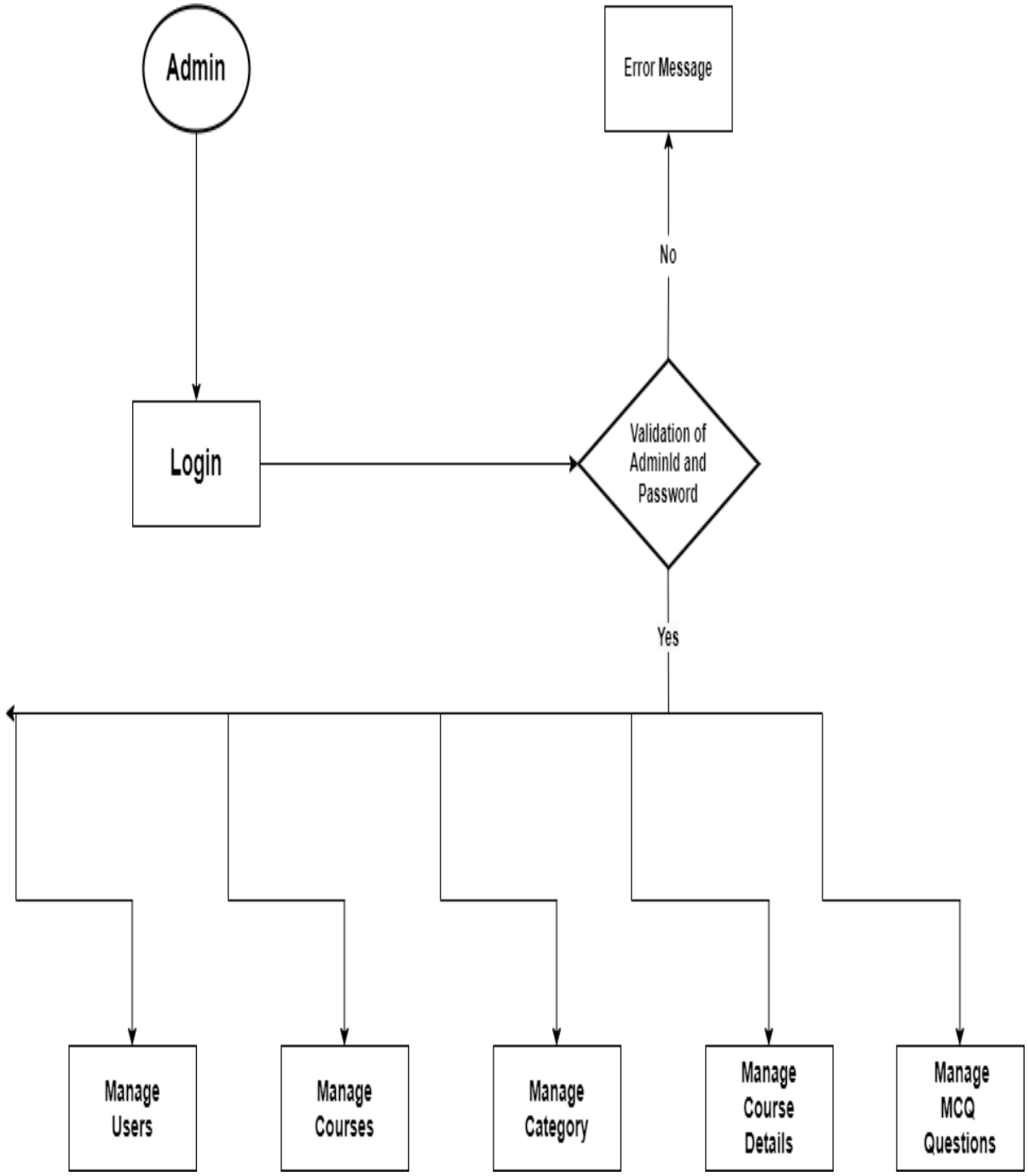
Field Name	Data Type	Constraints	Field Size	Description
D_ID	int	Primary Key		Contains ID of DETAILS
C_ID	int	Foreign Key		Contains ID of resources data Course
CAT_ID	int	Foreign Key		Contains ID of resources data Category
C_LINK	nvarchar		50	Contains link of DETAILS
C_PHOTO	nvarchar		50	Contains photo of DETAILS
COUSE_DETAILS	nvarchar		50	Contains description of DETAILS

➢ Table Name: MCQ

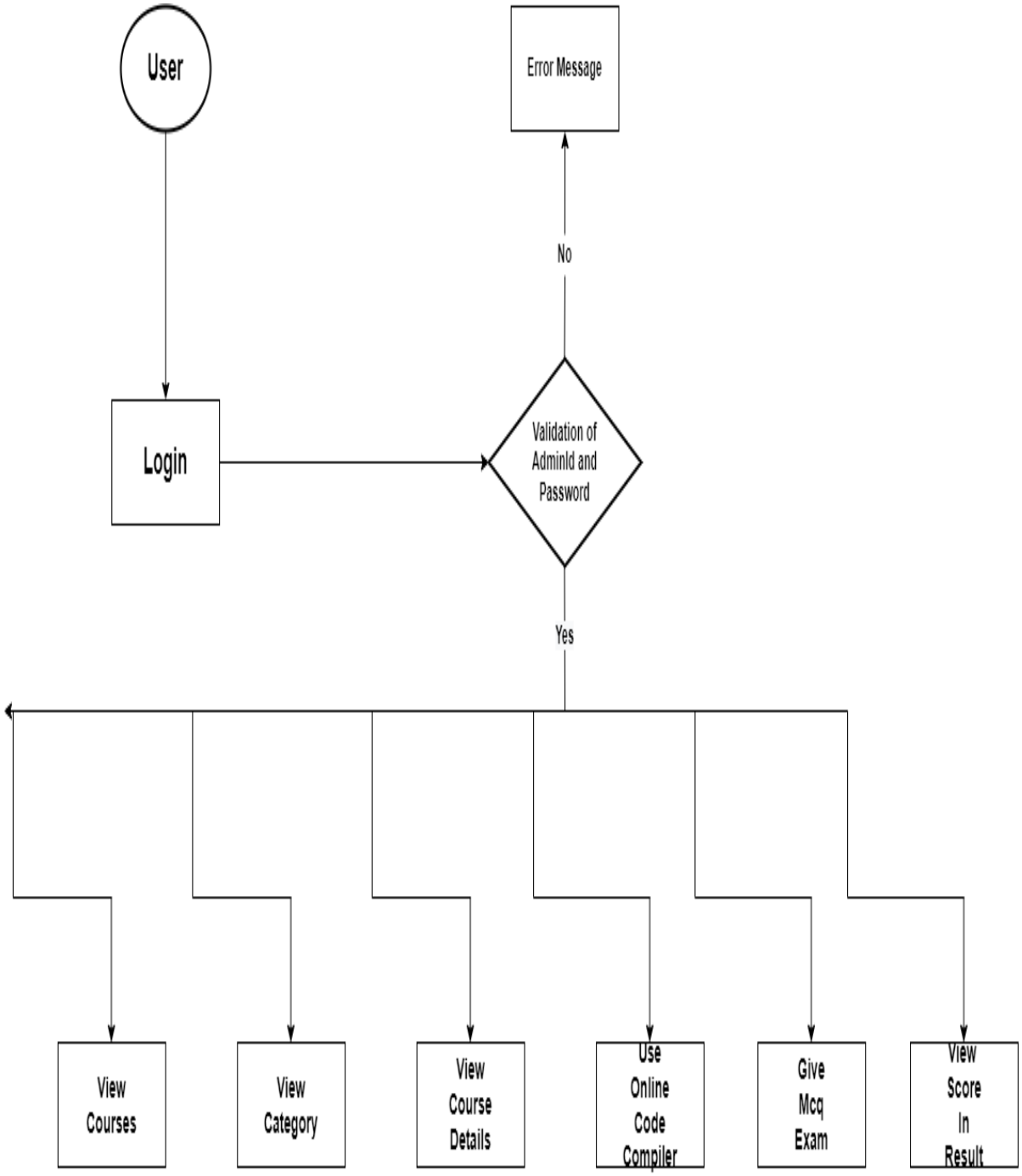
Field Name	Data Type	Constraints	Field Size	Description
Id	int	Primary Key		Contains ID of MCQ
Course	int	Foreign Key		Contains ID of resources data Course
Category	int	Foreign Key		Contains ID of resources data Category
Question	int	Foreign Key		Contains Question of MCQ
Option1	nvarchar		50	Contains 1st Option of MCQ
Option2	nvarchar		50	Contains 2nd Option of MCQ
Option3	nvarchar		50	Contains 3rd Option of MCQ
Option4	Nvarchar		50	Contains 4th Option of MCQ
Answer	nvarchar		50	Contains First Answer of MCQ

4.3 System Flowchart

Admin Side:



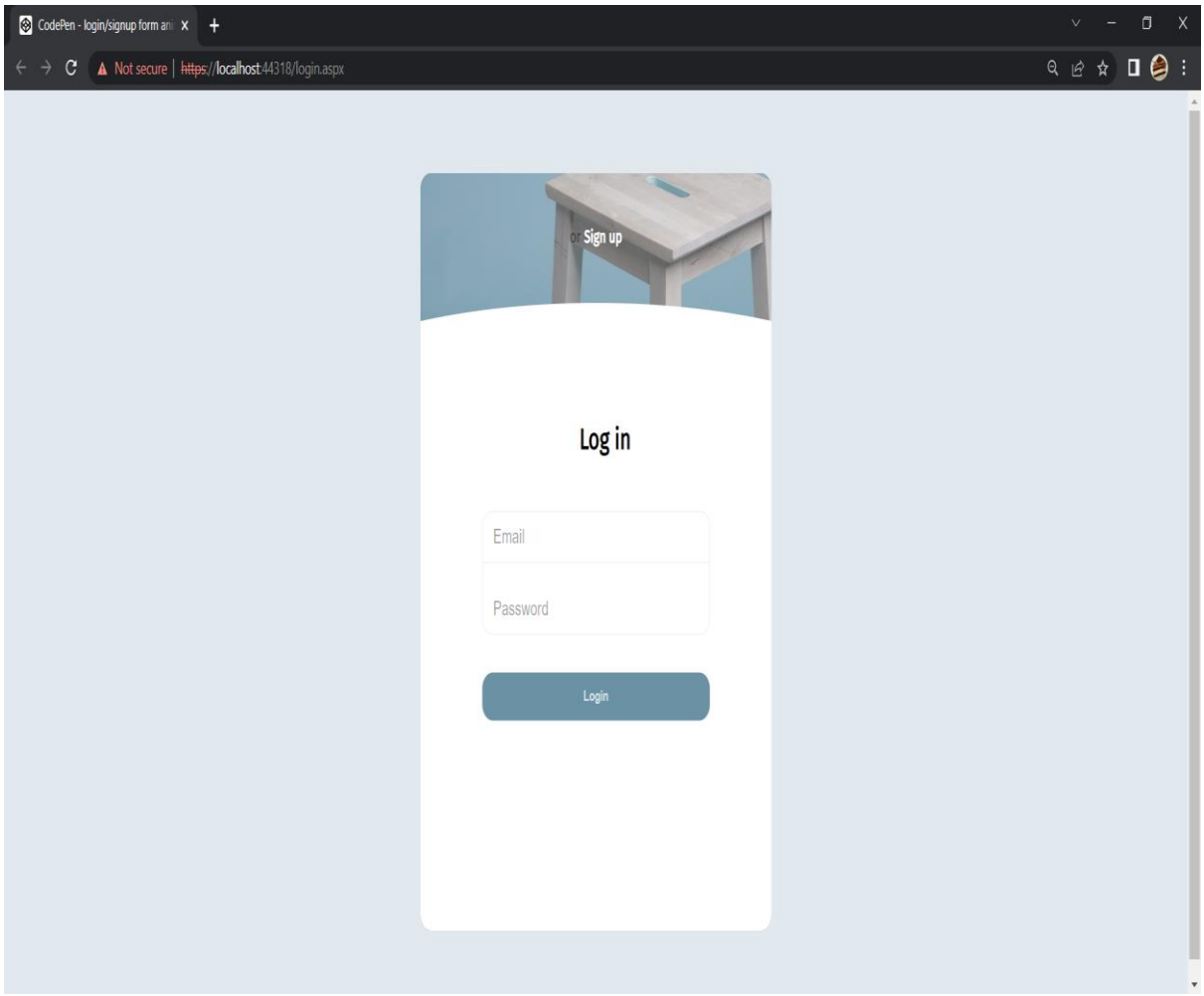
User Side:


User
Error Message
No
Login
Validation of AdminId and Password
Yes
View Courses
View Category
View Course Details
Use Online Code Compiler
Give Mcq Exam
View Score In Result

4.4 Form & Report Designs (Screenshots) Layouts

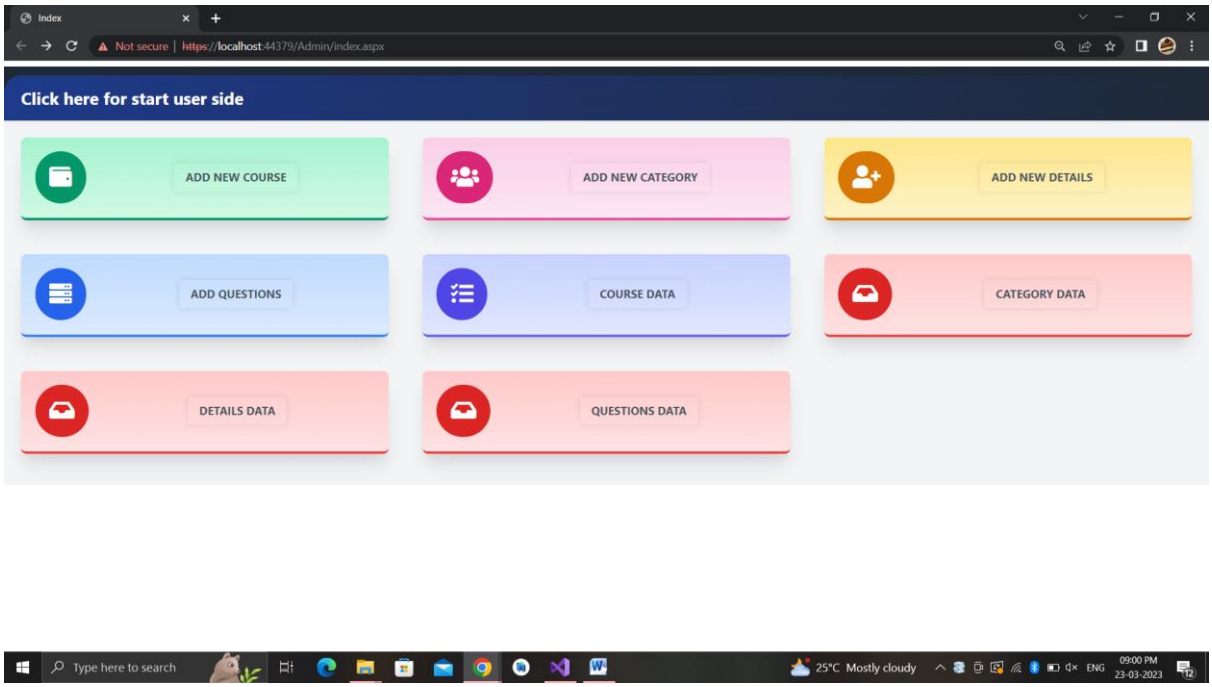
• Login Page For User And Admin

- Login page used by admin and user to login in e-learning system.
- Login done with email and password of admin And user.



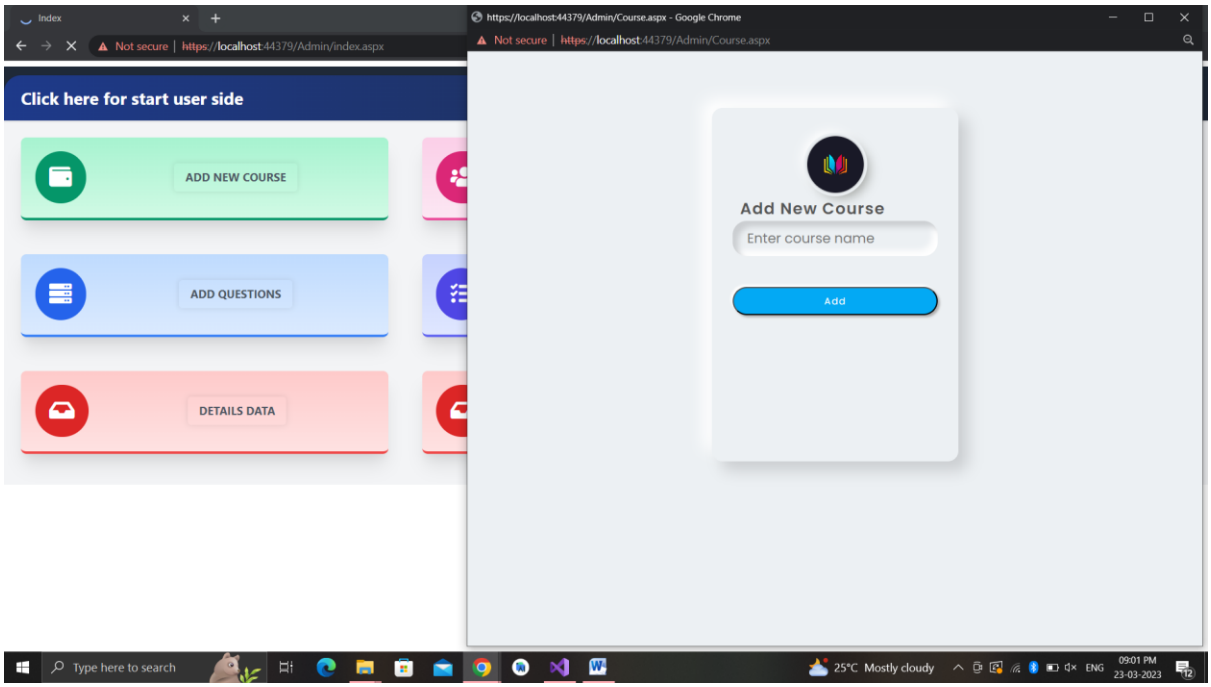
• Admin Home Page

- Home page is same for both user and admin but if login peocess was done with admin data than admin can different nav-bar



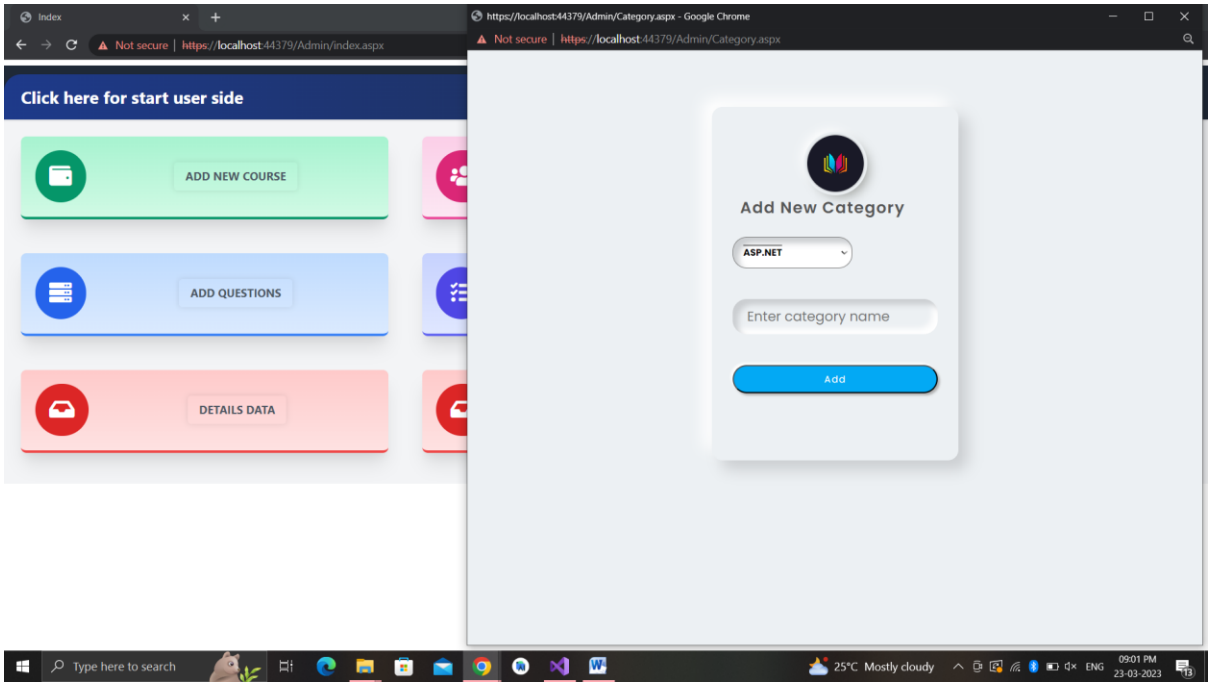
• Add Courses

- Admin can add new course with this page.



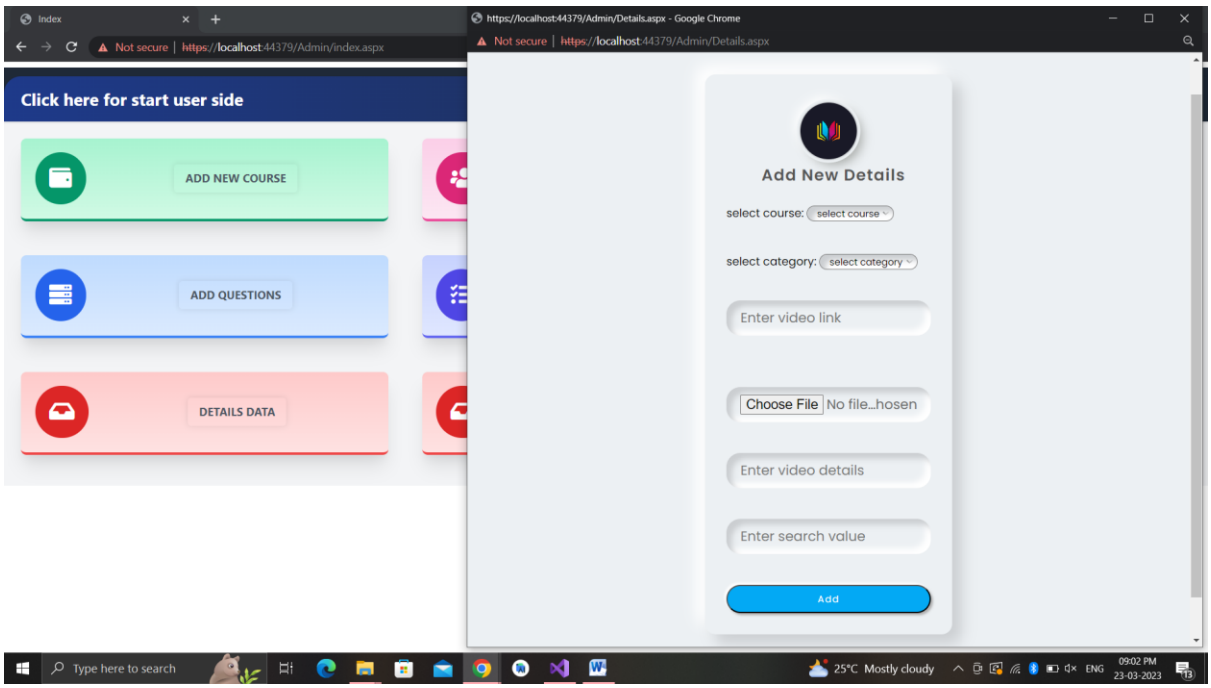
• Add Category

- Admin can add new category for different course.



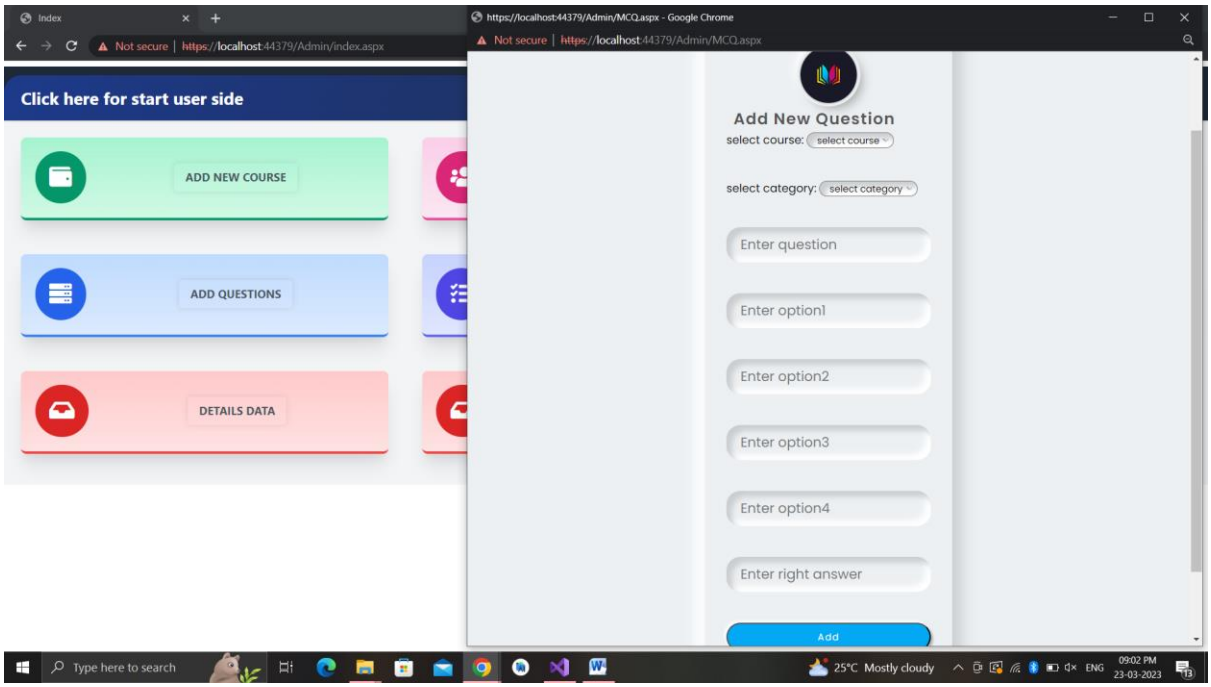
• **Add Details**

Admin can add details with selected course and category.



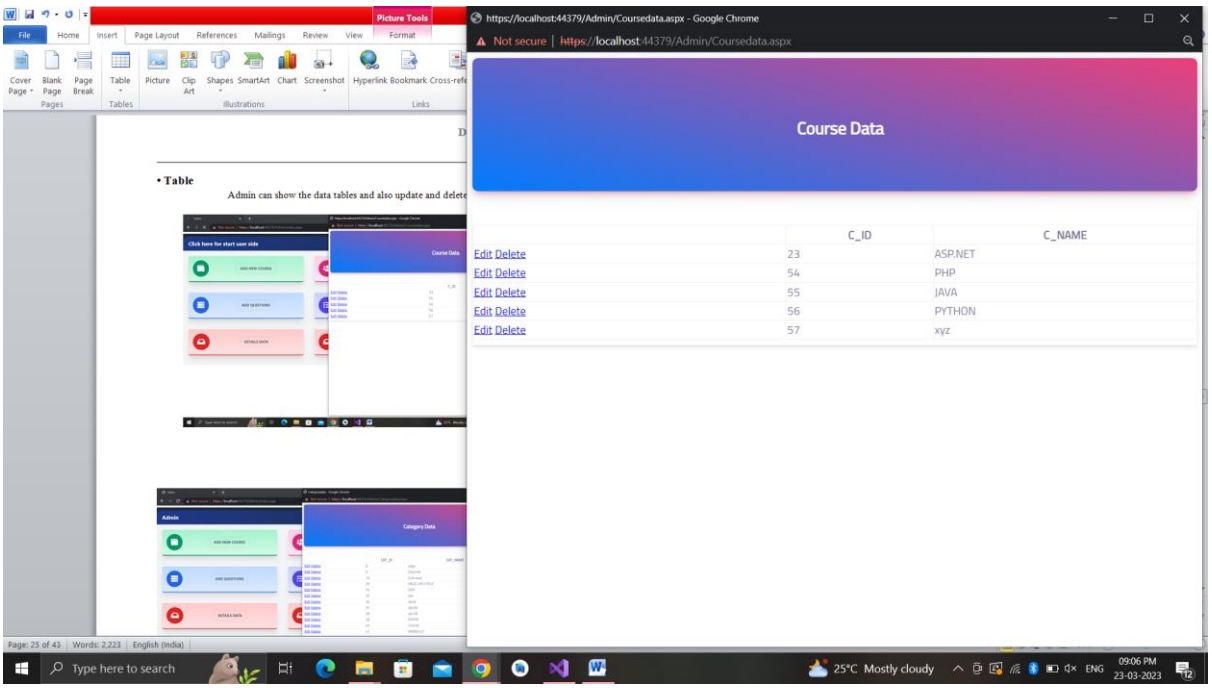
• **Add MCQ Question**

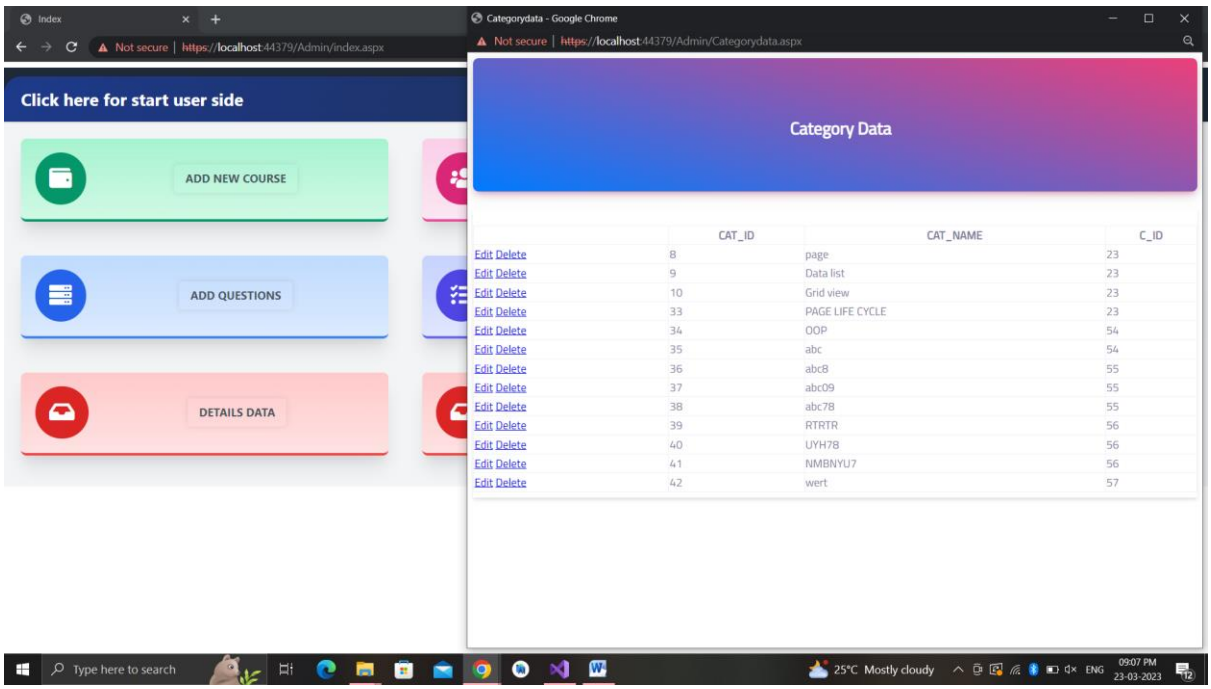
Admin can add MCQ Question with selected course and category.

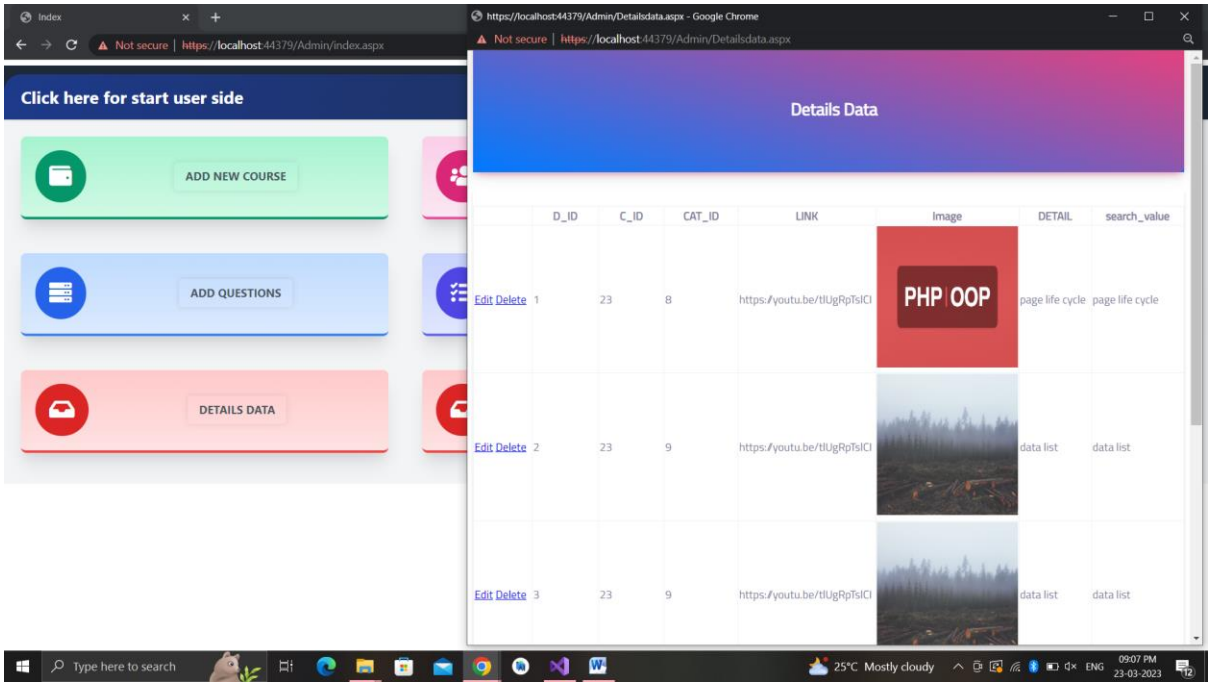


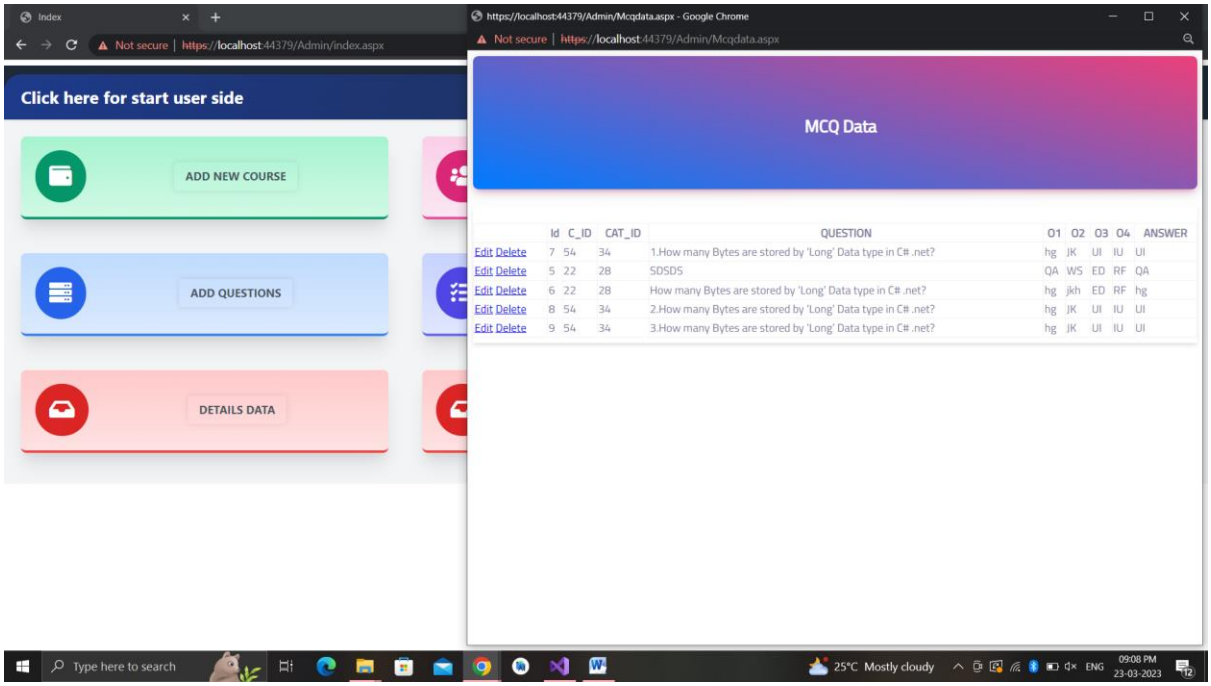
• Table

Admin can show the data tables and also update and delete data.



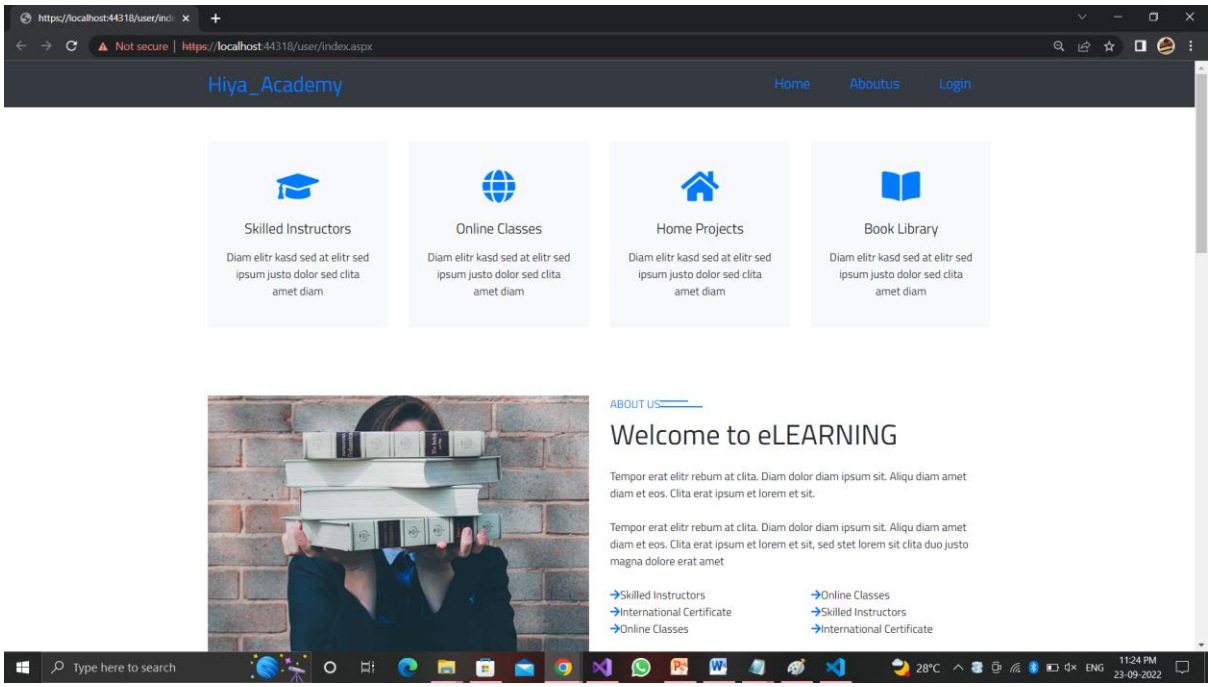



Index
Not secure | https://localhost:44379/Admin/index.aspx
Click here for start user side
ADD NEW COURSE
ADD QUESTIONS
DETAILS DATA
https://localhost:44379/Admin/Detailsdata.aspx - Google Chrome
Not secure | https://localhost:44379/Admin/Detailsdata.aspx
Details Data
D_ID C_ID CAT_ID LINK Image DETAIL search_value
Edit Delete 1 23 8 https://youtu.be/tlUgRpTsICI PHP OOP page life cycle page life cycle
Edit Delete 2 23 9 https://youtu.be/tlUgRpTsICI data list data list
Edit Delete 3 23 9 https://youtu.be/tlUgRpTsICI data list data list
Type here to search
25°C Mostly cloudy
ENG
09:07 PM
23-03-2023


Index
Not secure | https://localhost:44379/Admin/index.aspx
Click here for start user side
ADD NEW COURSE
ADD QUESTIONS
DETAILS DATA
https://localhost:44379/Admin/Mcqdata.aspx - Google Chrome
Not secure | https://localhost:44379/Admin/Mcqdata.aspx
MCQ Data
Id C_ID CAT_ID QUESTION O1 O2 O3 O4 ANSWER
Edit Delete 7 54 34 1.How many Bytes are stored by 'Long' Data type in C# .net? hg JK UI IU UI
Edit Delete 5 22 28 SDSDS QA WS ED RF QA
Edit Delete 6 22 28 How many Bytes are stored by 'Long' Data type in C# .net? hg jkh ED RF hg
Edit Delete 8 54 34 2.How many Bytes are stored by 'Long' Data type in C# .net? hg JK UI IU UI
Edit Delete 9 54 34 3.How many Bytes are stored by 'Long' Data type in C# .net? hg JK UI IU UI
Type here to search
25°C Mostly cloudy
ENG
09:08 PM
23-03-2023

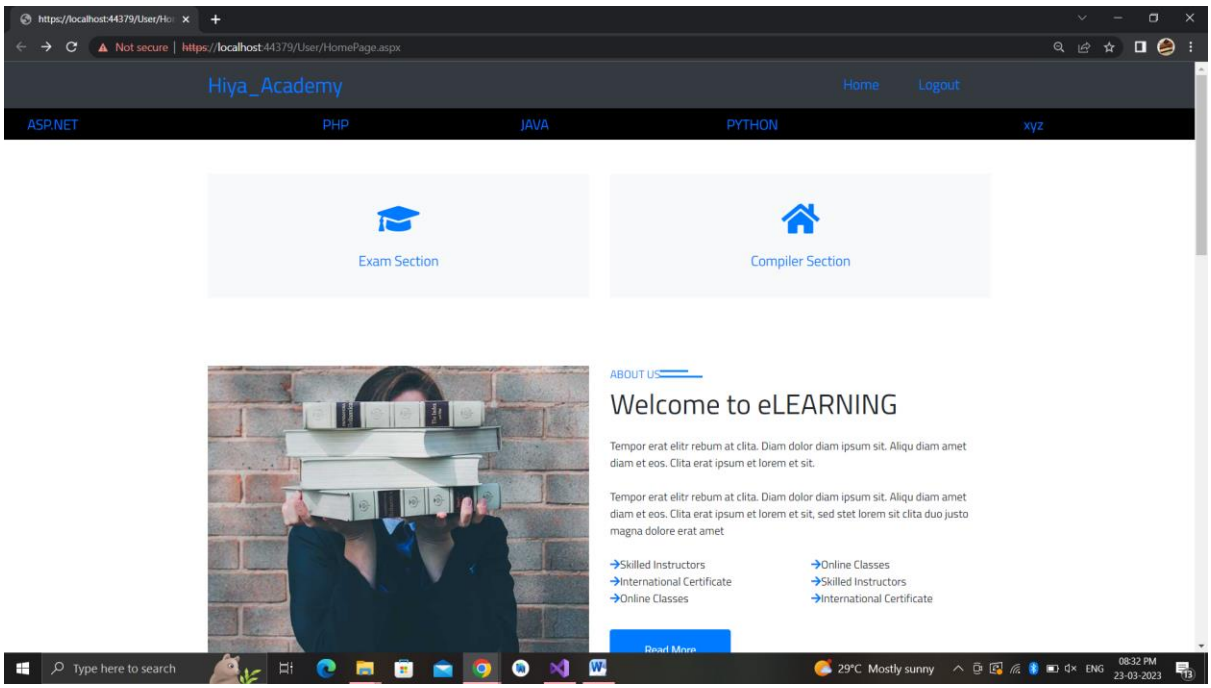
• Home page of User Without Login

- Home page of user is looks like given screen shot without login.



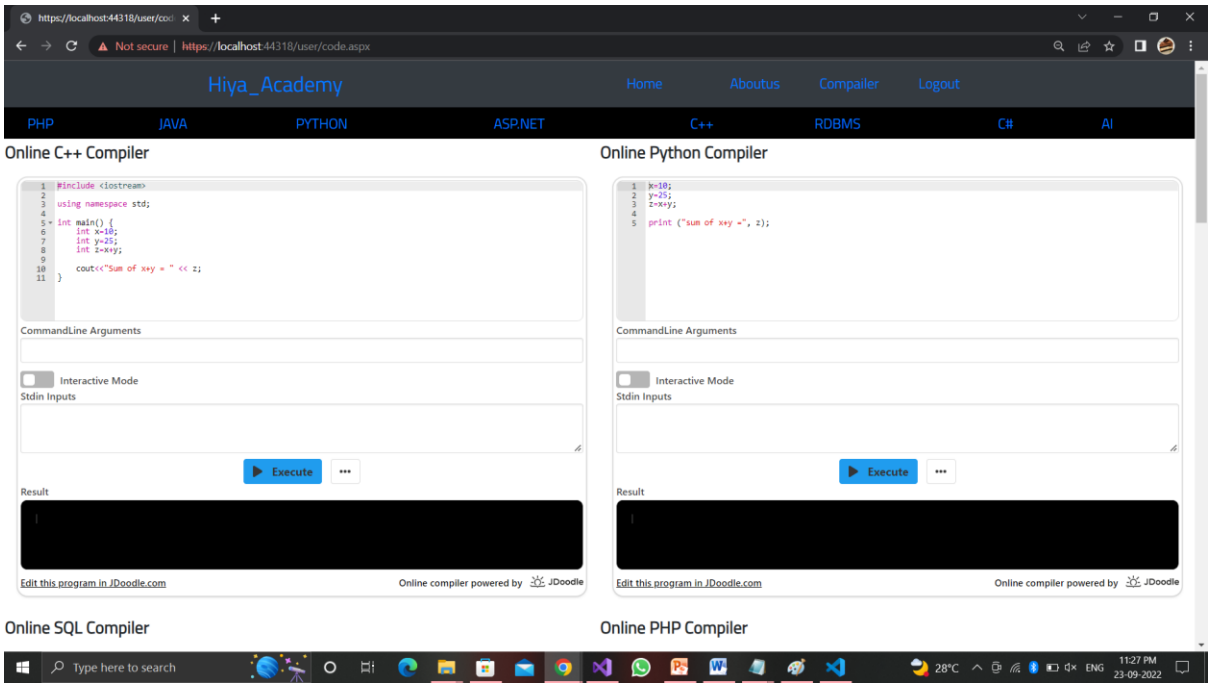
• Home page of User With Login

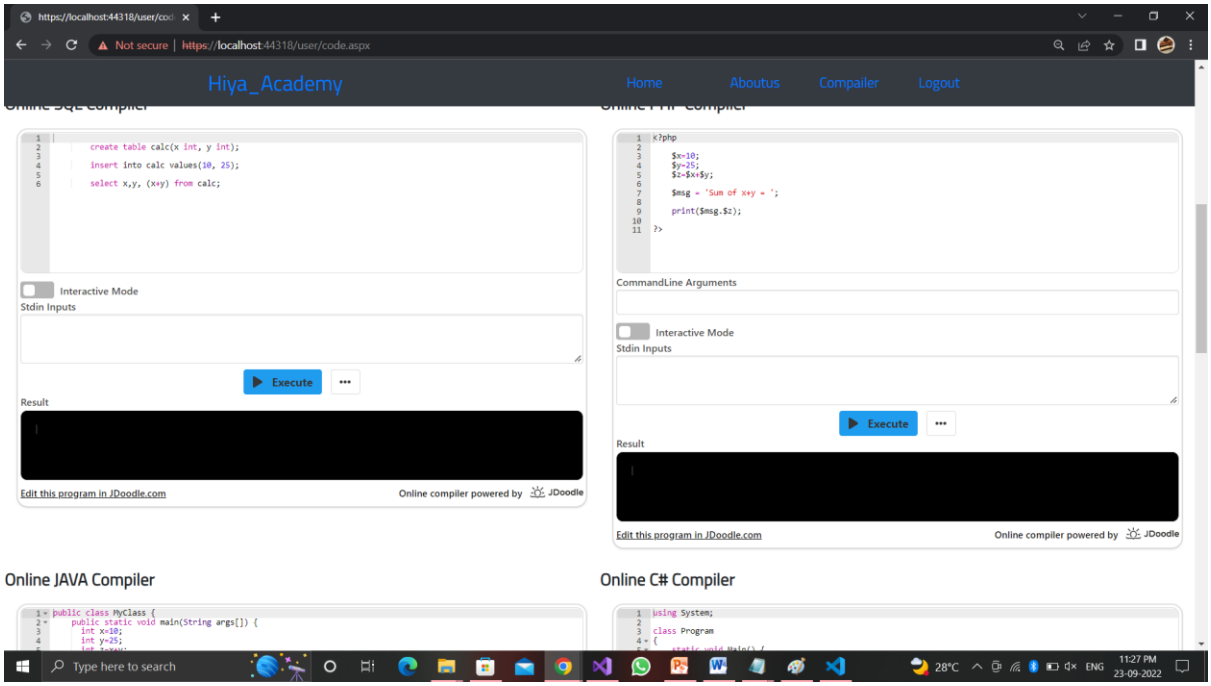
- Home page of user is looks like given screen shot with login.



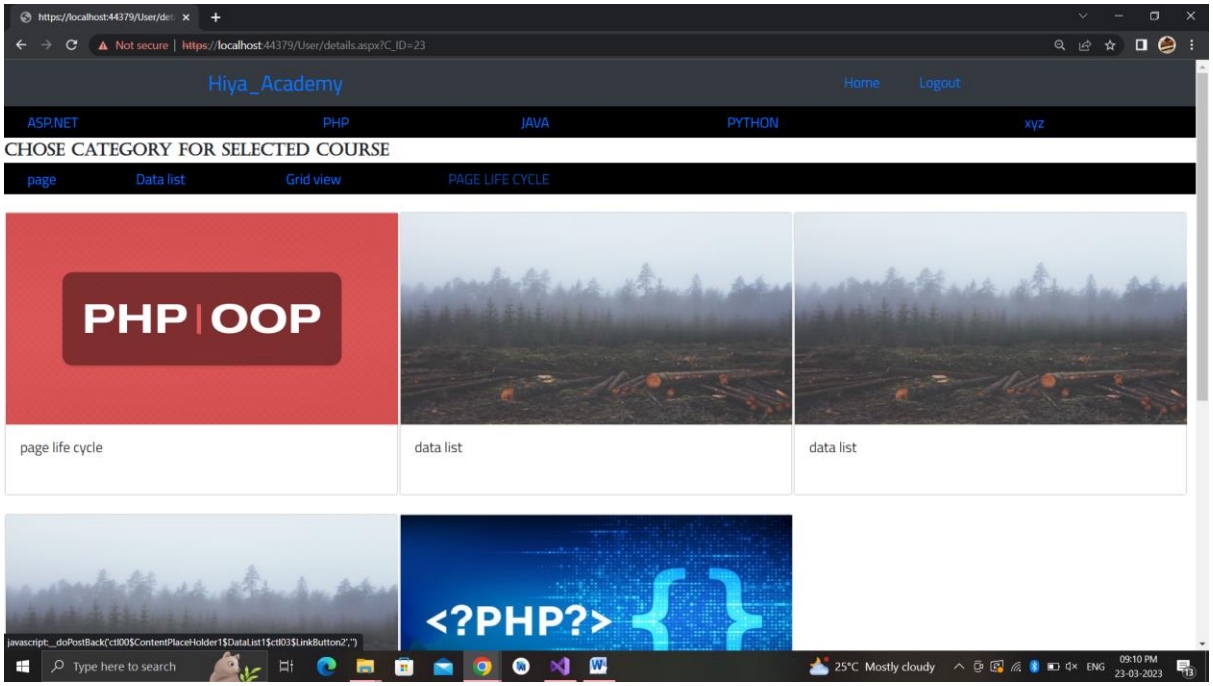
• Compiler Page

- User can use code compiler for free.

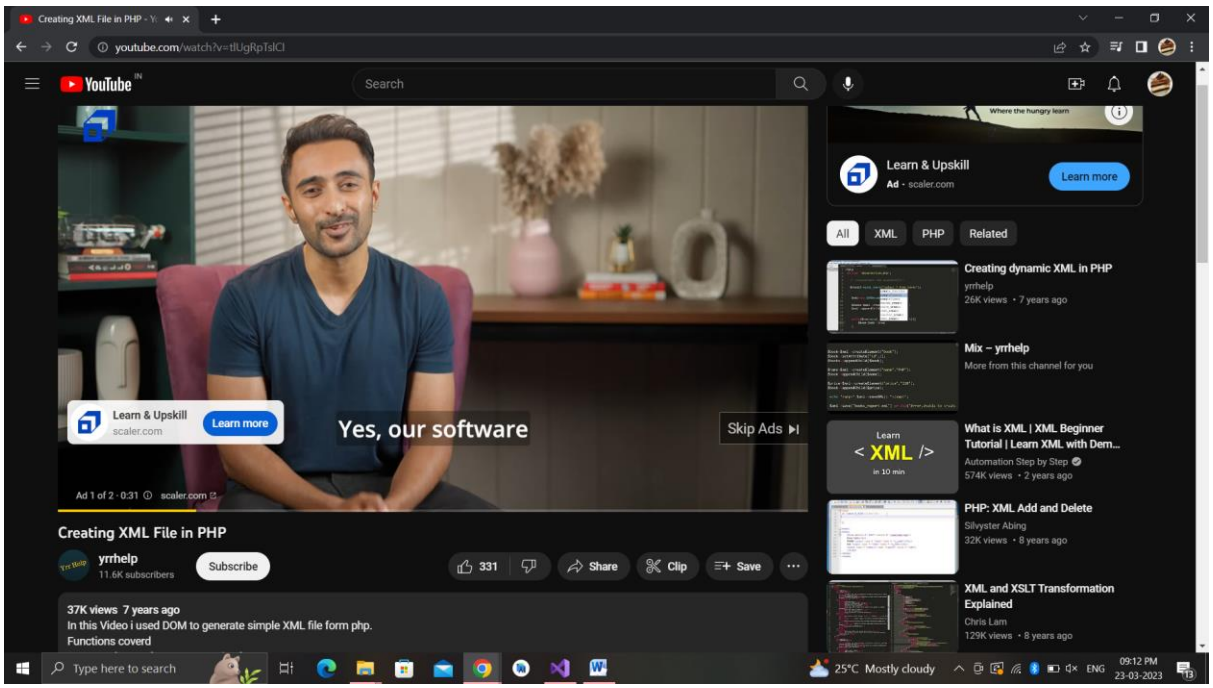




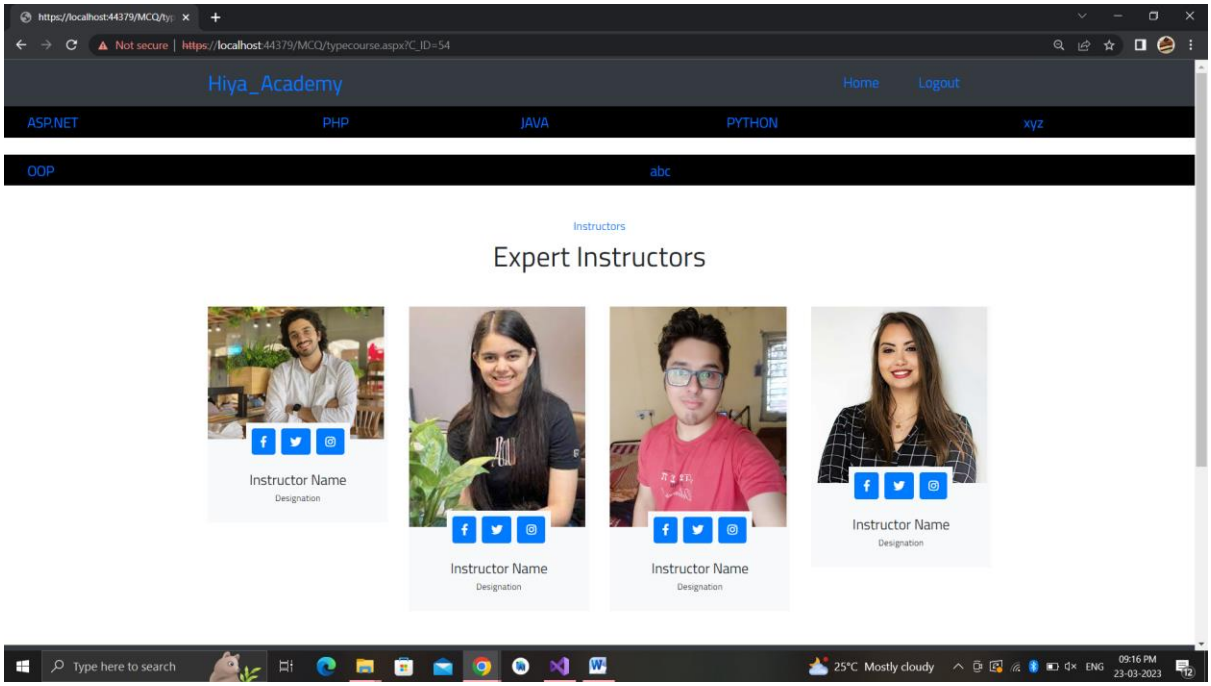
- User can select course which they want
- User can select category which they want



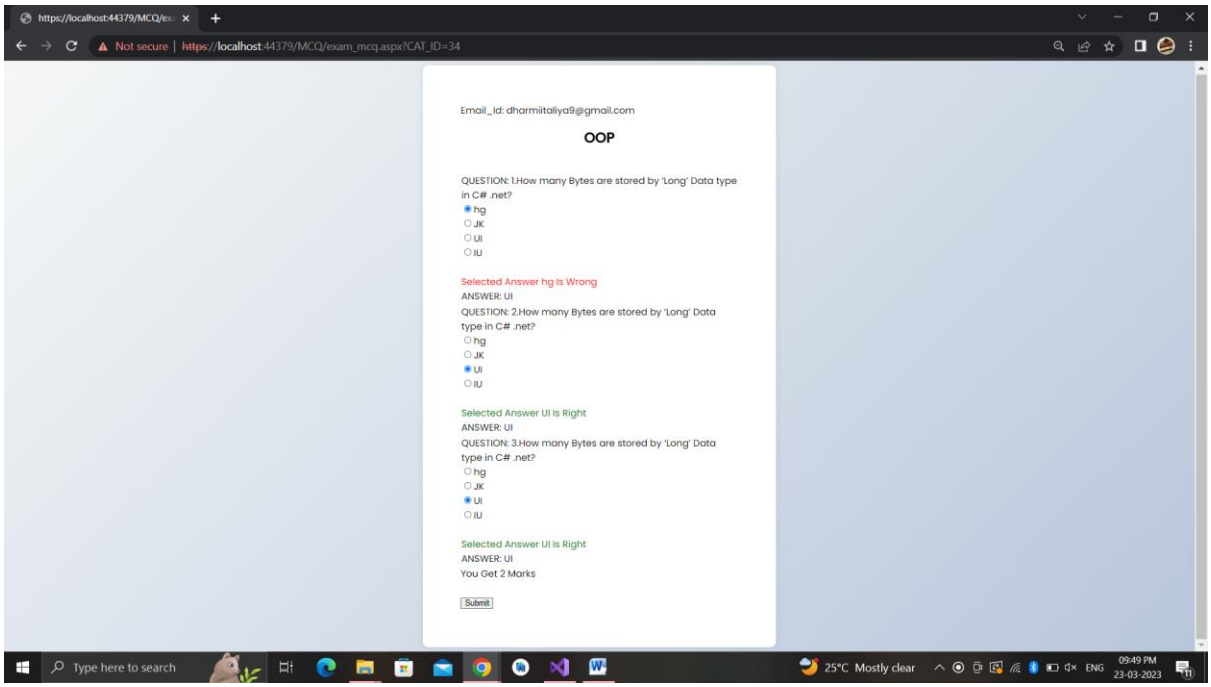
- Watch selected video



- User can select course for give exam
- User can select category for exam



- User can give exam



CODE:

• Login

```
protected void login12_Click(object sender, EventArgs e)
    {
        string constr =
ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;

        SqlConnection con = new SqlConnection(constr);
        con.Open();
        SqlCommand cmd5 = new SqlCommand("select count(*) from User_login where
login_id='" + user1.Text + "' and password='" + password.Text + "' ", con);
        SqlCommand cmd = new SqlCommand("select count(*) from Admin_login where
Email_id='" + user1.Text + "' and Password='" + password.Text + "' ", con);

        int i = Convert.ToInt16(cmd5.ExecuteScalar());
        int j = Convert.ToInt16(cmd.ExecuteScalar());
        if (i == 1)
        {

            Session["role"] = "user";
            Response.Redirect("user/homepage.aspx?login_id=" + user1.Text);


        }
        else if (j == 1)
        {

            Session["role"] = "admin";
            Response.Redirect("admin/adcourse.aspx?Email_id=" + user1.Text);
        }
        else if(i==0 && j==0)
        {
            string message = "Please Enter Valid Value";
            string script = "window.onload = function(){ alert('";
            script += message;
            script += "')};";
            ClientScript.RegisterStartupScript(this.GetType(), "SuccessMessage", script, true);
        }
        else
        {

            Session["role"] = "";
        }
        con.Close();
    }
```

• Signup

```
protected void signup12_Click(object sender, EventArgs e)
      {
         string constr =
ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
         SqlConnection con = new SqlConnection(constr);
         SqlCommand cmd = new SqlCommand("insert into User_login (login_id,password)
values('" + user.Text + "','" + pass1.Text + "')", con);
         con.Open();
         cmd.ExecuteNonQuery();
         Response.Redirect("user/homepage.aspx");
         con.Close();
      }
```

• Check Availability For Email_Id

```
protected void check_Click(object sender, EventArgs e)
      {
         string constr =
ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
         SqlConnection con = new SqlConnection(constr);
         SqlCommand cmd = new SqlCommand("select count(*) from User_login where
login_id='" + user.Text + "'", con);
         con.Open();
         cmd.ExecuteNonQuery();
         int i = Convert.ToInt16(cmd.ExecuteScalar());
         if (i == 1)
         {
            id1.Text = "not available";
         }
         else
         {
            id1.Text = "available";
         }
         con.Close();
      }
```

• Insert Course

```
protected void Button1_Click(object sender, EventArgs e)
    {
        string constr =
ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
        SqlConnection con = new SqlConnection(constr);
        SqlCommand cmd = new SqlCommand("insert into COURSE (C_NAME) values('" +
c_name.Text + "')", con);
        con.Open();
        cmd.ExecuteNonQuery();

        string message = "Your Record Have Been Saved Successfully.";
        string script = "window.onload = function(){ alert('";
        script += message;
        script += "')};";
        ClientScript.RegisterStartupScript(this.GetType(), "SuccessMessage", script, true);
        con.Close();
    }
```

• Insert Category

```
  protected void Button1_Click(object sender, EventArgs e)
    {
        string constr =
ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
        SqlConnection con = new SqlConnection(constr);
        SqlCommand cmd = new SqlCommand("insert into category (CAT_NAME,C_ID)
values('" + TextBox1.Text + "','" + cat.SelectedValue + "')", con);
        con.Open();
        cmd.ExecuteNonQuery();
        string message = "Your Record Have Been Saved Successfully.";
        string script = "window.onload = function(){ alert('";
        script += message;
        script += "')};";
        ClientScript.RegisterStartupScript(this.GetType(), "SuccessMessage", script, true);
        con.Close();
    }
```

• Insert Details

```
protected void Button1_Click(object sender, EventArgs e)
      {
         string strname1 = @"~\photos\" + Path.GetFileName(photo.FileName);
         photo.SaveAs(Server.MapPath(strname1));

         SqlConnection con = new SqlConnection(constr);
         SqlCommand cmd = new SqlCommand("insert into
C_DETAIL(CAT_ID,C_ID,C_LINK,C_PHOTO,COUSE_DETAILS,search_value)
values('"+ddl_cat.SelectedValue+ "','" + ddl_course.SelectedValue + "','" + link.Text + "','" +
strname1 + "','" + detail.Text + "','"+search.Text+"')", con);
         con.Open();
         cmd.ExecuteNonQuery();
         string message = "Your Record Have Been Saved Successfully.";
         string script = "window.onload = function(){ alert('";
         script += message;
         script += "')};";
         ClientScript.RegisterStartupScript(this.GetType(), "SuccessMessage", script, true);
         con.Close();
      }
```

- ## Insert MCQ Questions

```
SqlConnection con = new SqlConnection(constr);
         SqlCommand cmd = new SqlCommand("insert into
MCQ(C_ID,CAT_ID,QUESTION,O1,O2,O3,O4,ANSWER) values('" +
ddl_course.SelectedValue + "','" + ddl_cat.SelectedValue + "','" + question.Text + "','" +
o1.Text + "','" + o2.Text + "','" + o3.Text + "','" + o4.Text + "','" + answer.Text + "')", con);
         con.Open();
         cmd.ExecuteNonQuery();
         string message = "Your Record Have Been Saved Successfully.";
         string script = "window.onload = function(){ alert('";
         script += message;
         script += "')};";
         ClientScript.RegisterStartupScript(this.GetType(), "SuccessMessage", script, true);
                  con.Close();
```

- **Count score of given exam**

```
protected void Button1_Click1(object sender, EventArgs e)
    {
        int Correct = 0;
        int NotAnser = 0;
        foreach (GridViewRow row in GridView1.Rows)
        {
            Label A1 = row.FindControl("Label3") as Label;

            Label ANSWER1 = row.FindControl("ANSWER") as Label;
            RadioButton r1 = row.FindControl("RadioButton1") as RadioButton;
            ANSWER1.Visible = true;
            A1.Visible = true;
            if (r1.Checked == true)
            {
                if (r1.Text.Equals(ANSWER1.Text))
                {
                    Label SA = row.FindControl("Label2") as Label;
                    SA.Text = "Selected Answer " + r1.Text.ToString() + " Is Right";
                    Correct += 1;
                    SA.ForeColor = System.Drawing.Color.Green;
                }
                else
                {
                    Label wrongans = row.FindControl("Label2") as Label;
                    wrongans.Text = "Selected Answer " + r1.Text.ToString() + " Is Wrong";
                }
            }
            else
            {
                NotAnser += 1;
            }
        }

        foreach (GridViewRow row in GridView1.Rows)
        {
            Label ANSWER1 = row.FindControl("ANSWER") as Label;
            RadioButton r2 = row.FindControl("RadioButton2") as RadioButton;
            ANSWER1.Visible = true;
            if (r2.Checked == true)
            {
                if (r2.Text.Equals(ANSWER1.Text))
                {
                    Label SA = row.FindControl("Label2") as Label;
                    SA.Text = "Selected Answer " + r2.Text.ToString() + " Is Right";
                    Correct += 1;
                    SA.ForeColor = System.Drawing.Color.Green;
```

```
        }
        else
        {
            Label wrongans = row.FindControl("Label2") as Label;
            wrongans.Text = "Selected Answer " + r2.Text.ToString() + " Is Wrong";
        }
    }
}
foreach (GridViewRow row in GridView1.Rows)
{
    Label ANSWER1 = row.FindControl("ANSWER") as Label;
    RadioButton r3 = row.FindControl("RadioButton3") as RadioButton;
    ANSWER1.Visible = true;
    if (r3.Checked == true)
    {
        if (r3.Text.Equals(ANSWER1.Text))
        {
            Label SA = row.FindControl("Label2") as Label;
            SA.Text = "Selected Answer " + r3.Text.ToString() + " Is Right";
            Correct += 1;
            SA.ForeColor = System.Drawing.Color.Green;

        }
        else
        {
            Label wrongans = row.FindControl("Label2") as Label;
            wrongans.Text = "Selected Answer " + r3.Text.ToString() + " Is Wrong";
        }
    }
}
foreach (   GridViewRow row in GridView1.Rows)
{
    Label ANSWER1 = row.FindControl("ANSWER") as Label;
    RadioButton r4 = row.FindControl("RadioButton4") as RadioButton;
    ANSWER1.Visible = true;
    if (r4.Checked==true)
    {
        if (r4.Text.Equals(ANSWER1.Text))
        {
            Label SA = row.FindControl("Label2") as Label;
            SA.Text = "Selected Answer " + r4.Text.ToString()+ " Is Right";
            Correct += 1;
            SA.ForeColor = System.Drawing.Color.Green;

        }
        else
        {
```

```
                Label wrongans = row.FindControl("Label2") as Label;
                wrongans.Text = "Selected Answer " + r4.Text.ToString() + " Is Wrong";
            }
        }
    }

    l1.Text = "You Get " + Correct+ " Marks";

}
```

• View Course

```
protected void cat_ItemCommand(object source, DataListCommandEventArgs e)
    {
        if (e.CommandName == "video")
        {
            Response.Redirect("video.aspx?CAT_ID=" + e.CommandArgument.ToString());
        }
    }
```

➢ **Aspx code**

```
<asp:DataList ID="DataList2" runat="server" DataKeyField="D_ID"
DataSourceID="SqlDataSource2" RepeatColumns="3" RepeatDirection="Horizontal">
    <ItemTemplate>
        <div class="card mb-3">
            <div class="row no-gutters">
                <div class="col-md-4">
                    <asp:HyperLink ID="HyperLink1" runat="server" ImageUrl='<%#
Eval("C_PHOTO") %>' NavigateUrl='<%# Eval("C_LINK") %>' ImageHeight="200px"
ImageWidth="200px">HyperLink</asp:HyperLink>
                </div>
                <div class="col-md-8">
                    <div class="card-body">
                        <br />
                        <asp:Label ID="Label2" runat="server" Text='<%#
Eval("COUSE_DETAILS") %>'></asp:Label>
                    </div>
                </div>
            </div>
        </div>
    </ItemTemplate>
        </asp:DataList>
```

6. Testing

6.1 Testing Data Inputs (Data Validations)

❖ Login Page:

NO.	Input	Expected Output	Actual Output	Result
1	Empty Email_id	Error	Error	Login Fail
2	Empty /Wrong password	Error	Error	Login Fail

❖ Add Course:

NO.	Input	Expected Output	Actual Output	Result
1	Empty Course	Error	Error	Added Fail

❖ Add Category:

NO.	Input	Expected Output	Actual Output	Result
1	Empty Course	Error	Error	Added Fail
2	Empty Category	Error	Error	Added Fail

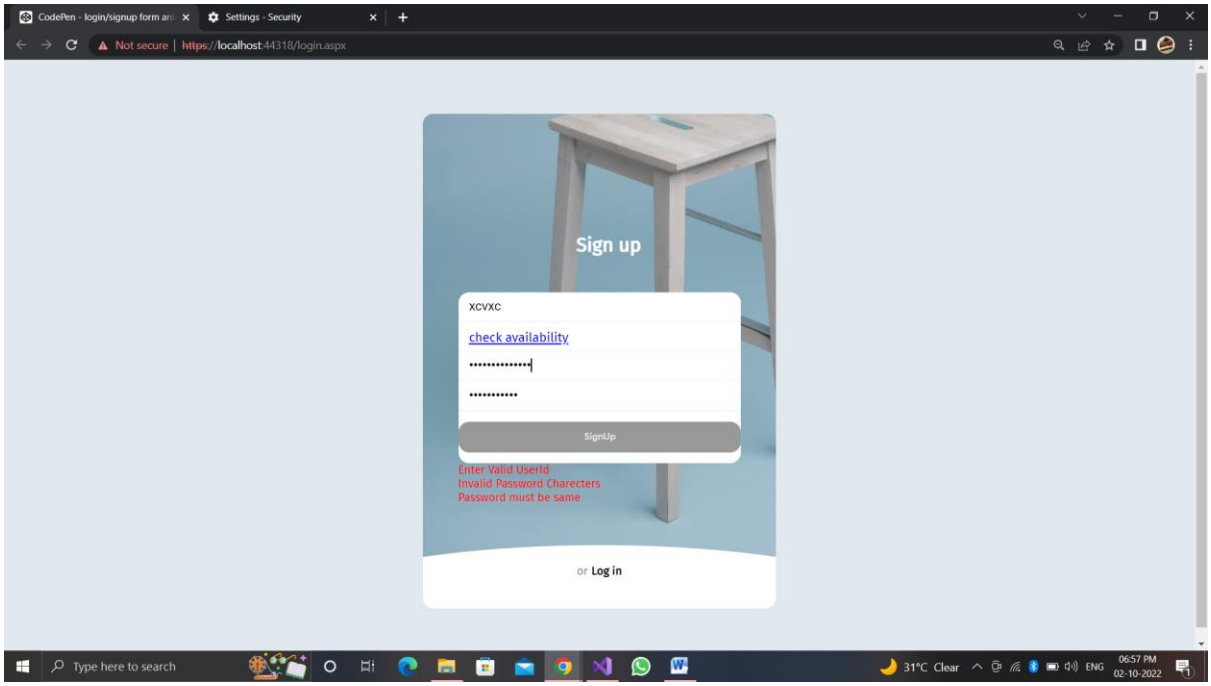
❖ **Add Details:**

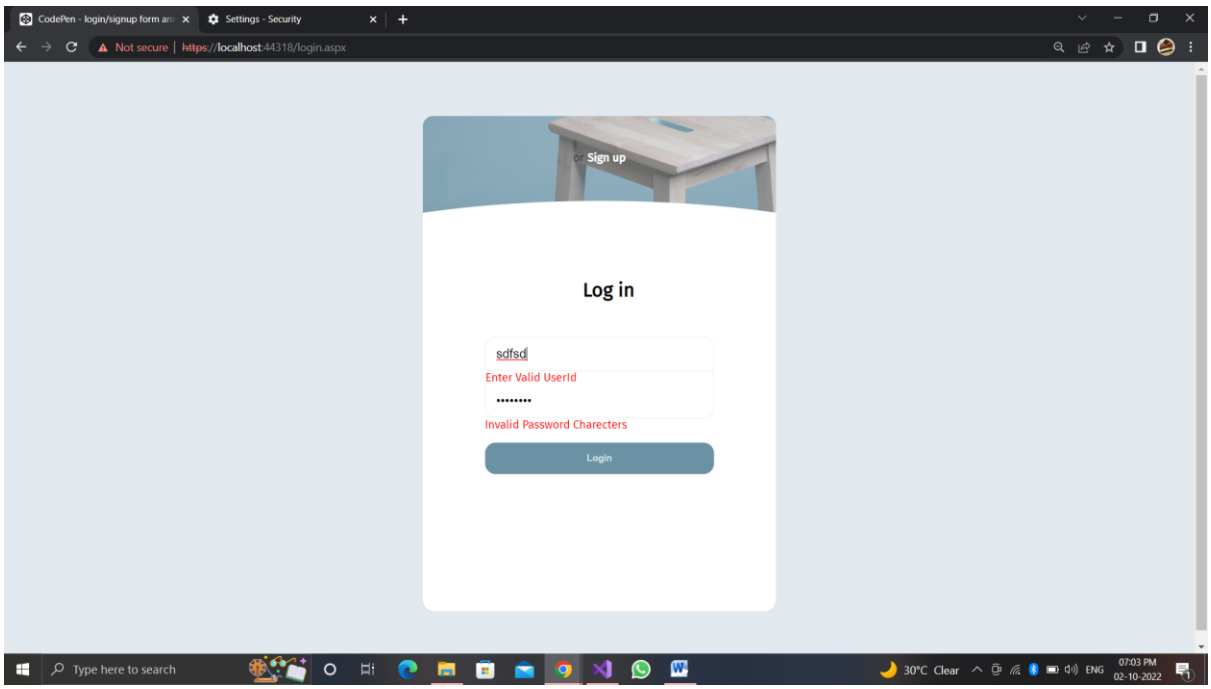
NO.	Input	Expected Output	Actual Output	Result
1	Empty Course	Error	Error	Added Fail
2	Empty Category	Error	Error	Added Fail
3	Empty Link	Error	Error	Added Fail
4	Empty Photo	Error	Error	Added Fail
5	Empty Course Details	Error	Error	Added Fail

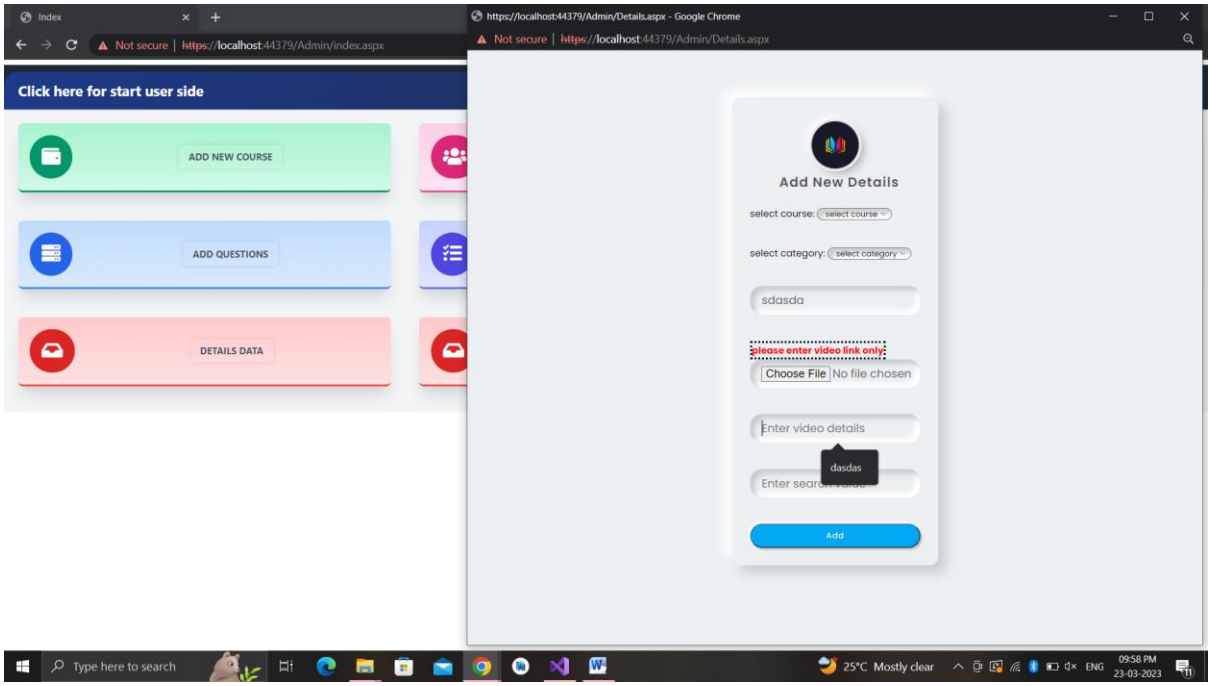
- **Add MCQ Questions**

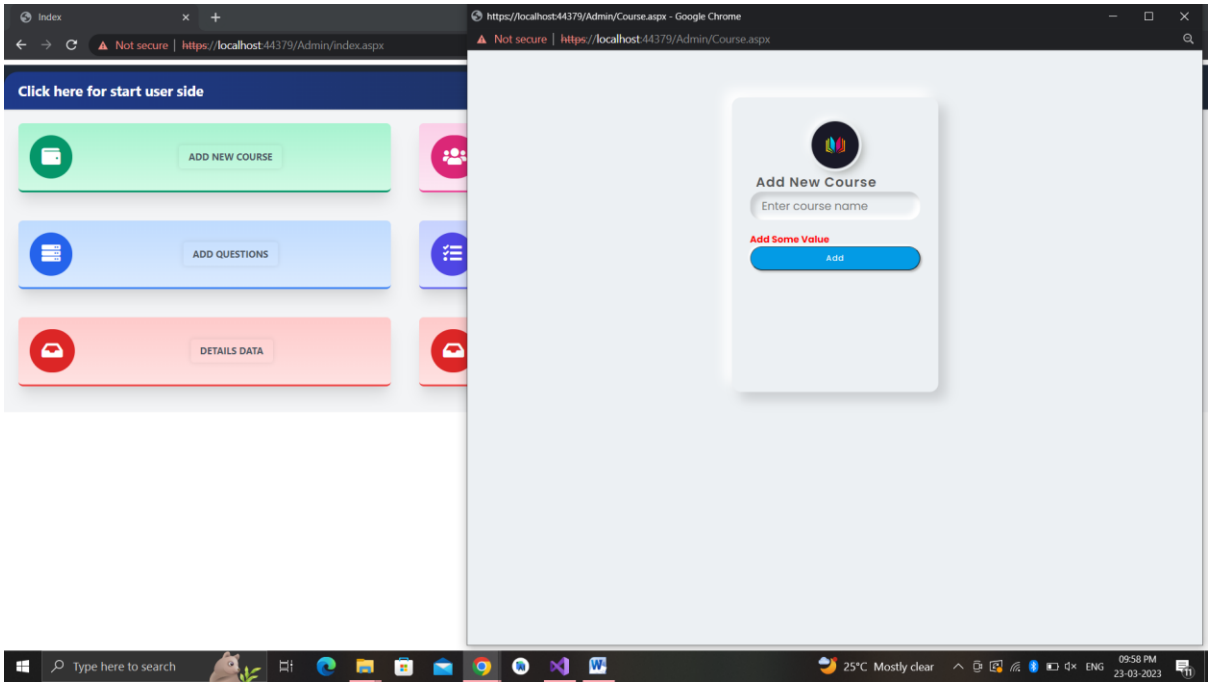
NO.	Input	Expected Output	Actual Output	Result
1	Empty Course	Error	Error	Added Fail
2	Empty Category	Error	Error	Added Fail
3	Empty Question	Error	Error	Added Fail
4	Empty Option1	Error	Error	Added Fail
5	Empty Option2	Error	Error	Added Fail
6	Empty Option3	Error	Error	Added Fail
7	Empty Option4	Error	Error	Added Fail
8	Empty Answer	Error	Error	Added Fail

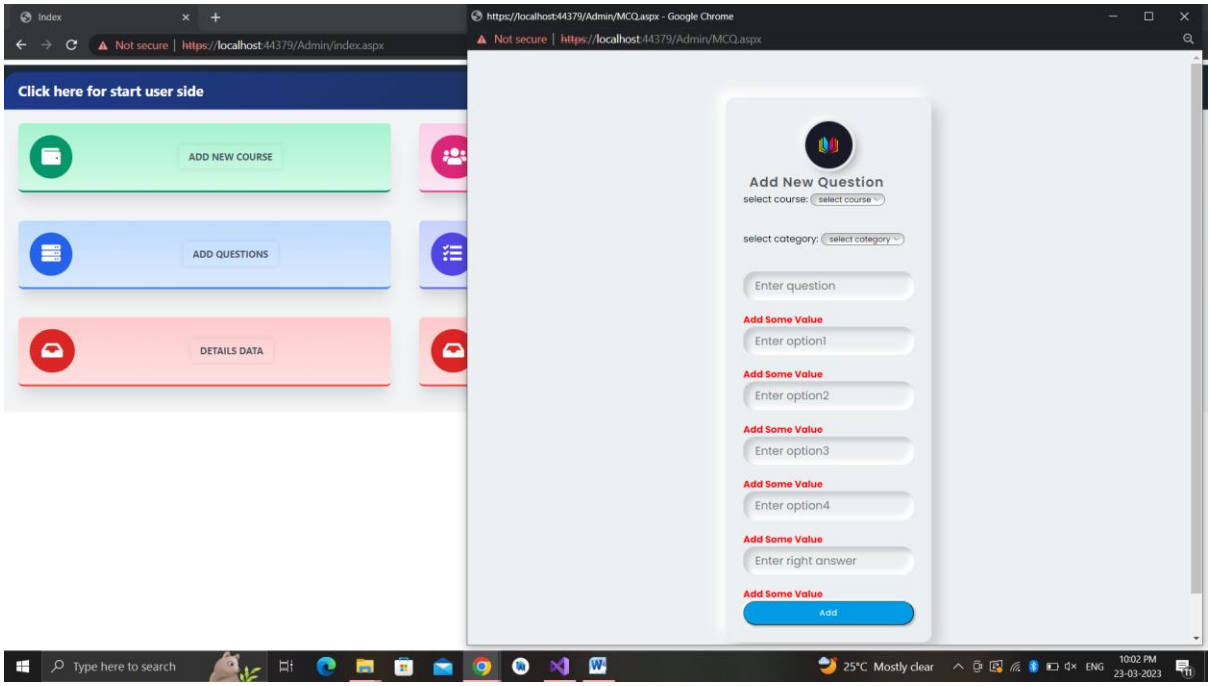
6.2 Testing Operations (Actions on each screen)






Index
Not secure | https://localhost:44379/Admin/index.aspx
Click here for start user side
ADD NEW COURSE
ADD QUESTIONS
DETAILS DATA
https://localhost:44379/Admin/Details.aspx - Google Chrome
Not secure | https://localhost:44379/Admin/Details.aspx
Add New Details
select course:
select category:
sdasda
please enter video link only:
Choose File No file chosen
Enter video details
dasdas
Add
Type here to search
25°C Mostly clear
ENG
09:58 PM
23-03-2023


Index
Not secure | https://localhost:44379/Admin/index.aspx
Click here for start user side
ADD NEW COURSE
ADD QUESTIONS
DETAILS DATA
https://localhost:44379/Admin/Course.aspx - Google Chrome
Not secure | https://localhost:44379/Admin/Course.aspx
Add New Course
Enter course name
Add Some Value
Add
Type here to search
25°C Mostly clear
ENG
09:58 PM
23-03-2023


Index
Not secure | https://localhost:44379/Admin/index.aspx
Click here for start user side
ADD NEW COURSE
ADD QUESTIONS
DETAILS DATA
https://localhost:44379/Admin/MCQ.aspx - Google Chrome
Not secure | https://localhost:44379/Admin/MCQ.aspx
Add New Question
select course:
select course
select category:
select category
Enter question
Add Some Value
Enter option1
Add Some Value
Enter option2
Add Some Value
Enter option3
Add Some Value
Enter option4
Add Some Value
Enter right answer
Add Some Value
Add
Type here to search
25°C Mostly clear
ENG
10:02 PM
23-03-2023

7 .New Tools/ Technologies learned/used

- Visual Studio 2019:- It is the main development environment in which we will Code.
- Some CSS for page design
- Template field for passing value
- Microsoft Access 2019: It integrates with Visual Studio 2019.
- .NET Framework 4.8 :-It has two phases for compile process.
  FCL: Frame work Class Library
  CLR: Common Language Runtime

8.System Limitations

- Link will be uploaded when you are connected with internet.
- User only able to see their own Resources they do not able to see other user data.
- admin add by only developer of website .

9.Bibliography & References

Website

- www.stackoverflow.com
- www.aspsnippets.com
- **www.codeproject.com**
- **www.geeksforgeeks.org**