BAL:

namespace Sl\_phase3project4.Models

{

public class School

{

private int \_marks;

public int Marks

{

get { return \_marks; }

set { \_marks = value; }

}

private int \_studentid;

public int Studentid

{

get { return \_studentid; }

set { \_studentid = value; }

}

private int \_subjectid;

public int Subjectid

{

get { return \_subjectid; }

set { \_subjectid = value; }

}

}

}

DAL:

namespace ClassLibrary2

{

public class DAL

{

public bool InsertMarks(BAL book1)

{

SqlConnection cn = new SqlConnection(ConfigurationManager.ConnectionStrings["Schooldb"].ConnectionString);

SqlCommand cmd = new SqlCommand("insert into Marks values(@marks,@subjectid,@studentid)", cn);

cmd.Parameters.AddWithValue("@marks", book1.Marks);

cmd.Parameters.AddWithValue("@subjectid", book1.Subjectid);

cmd.Parameters.AddWithValue("@studentid", book1.Studentid);

cn.Open();

int i = cmd.ExecuteNonQuery();

bool status = false;

if (i == 1)

{

status = true;

}

cn.Close();

cn.Dispose();

Console.WriteLine(status);

return status;

}

public List<BAL> MarkList()

{

SqlConnection cn = new SqlConnection(ConfigurationManager.ConnectionStrings["Schooldb"].ConnectionString);

SqlCommand cmdlist = new SqlCommand("select \* from Marks", cn);

cn.Open();

SqlDataReader dr = cmdlist.ExecuteReader();

List<BAL> emplist = new List<BAL>();

if (dr.HasRows)

{

while (dr.Read())

{

BAL bal = new BAL();

bal.Marks = Convert.ToInt32(dr["marks"]);

bal.Subjectid = Convert.ToInt32(dr["subjectid"].ToString());

bal.Studentid = Convert.ToInt32(dr["studentid"].ToString());

emplist.Add(bal);

}

}

cn.Close();

cn.Dispose();

return emplist;

}

public bool DeleteMarks(int employee\_id)

{

SqlConnection cn = new SqlConnection(ConfigurationManager.ConnectionStrings["Schooldb"].ConnectionString);

SqlCommand cmdDelete = new SqlCommand($"delete from Marks where marks={employee\_id}", cn);

cn.Open();

int i = cmdDelete.ExecuteNonQuery();

bool status = false;

if (i == 1)

{

status = true;

}

cn.Close();//finally

cn.Dispose();//finally

return status;

}

public BAL FindMark(int empid)

{

SqlConnection cn = new SqlConnection(ConfigurationManager.ConnectionStrings["Schooldb"].ConnectionString);

SqlCommand cmdSelect = new SqlCommand($"select \* from marks where marks={empid}", cn);

cn.Open();

SqlDataReader dr = cmdSelect.ExecuteReader();

BAL empfound = new BAL();

while (dr.Read())

{

empfound.Marks = Convert.ToInt32(dr["marks"]);

empfound.Subjectid = Convert.ToInt32(dr["subjectid"]);

empfound.Subjectid = Convert.ToInt32(dr["studentid"]);

}

cn.Close();

cn.Dispose();

return empfound;

}

public bool UpdateMarks(BAL book1)

{

SqlConnection cn = new SqlConnection(ConfigurationManager.ConnectionStrings["Schooldb"].ConnectionString);

SqlCommand cmdUpdate = new SqlCommand($" update marks set marks = @p\_marks,subjectid=@p\_subjectid,studentid = @p\_studentid where marks={book1.Marks} "

, cn);

cmdUpdate.Parameters.AddWithValue("@p\_marks", book1.Marks);

cmdUpdate.Parameters.AddWithValue("@p\_subjectid", book1.Subjectid);

cmdUpdate.Parameters.AddWithValue("@p\_studentid", book1.Studentid);

cn.Open();

int i = cmdUpdate.ExecuteNonQuery();

bool status = false;

if (i == 1)

{

status = true;

}

cn.Close();

cn.Dispose();

Console.WriteLine(status);

return status;

}

public List<BAL> MarksList()

{

SqlConnection cn = new SqlConnection(ConfigurationManager.ConnectionStrings["Schooldb"].ConnectionString);

SqlCommand cmdlist = new SqlCommand("select \* from marks", cn);

cn.Open();

SqlDataReader dr = cmdlist.ExecuteReader();

List<BAL> emplist = new List<BAL>();

if (dr.HasRows)

{

while (dr.Read())

{

BAL bal = new BAL();

bal.Marks = Convert.ToInt32(dr["marks"]);

bal.Subjectid = Convert.ToInt32(dr["subjectid"]);

bal.Studentid = Convert.ToInt32(dr["studentid"]);

emplist.Add(bal);

}

}

cn.Close();

cn.Dispose();

return emplist;

}

}

}

Helper:

namespace ClassLibrary3

{

public class Helper

{

DAL dl = null;

public Helper()

{

dl = new DAL();

}

public bool addmarks(BAL book1)

{

bool status = dl.InsertMarks(book1);

Console.WriteLine(status);

return status;

//return

}

public bool editmarks(BAL book1)

{

bool status = dl.UpdateMarks(book1);

Console.WriteLine(status);

return status;

//return

}

public List<BAL> ShowMarkList()

{

return dl.MarksList();

}

public BAL SearchMark(int empid)

{

return dl.FindMark(empid);

}

public bool RemoveMark(int employee\_id)

{

return dl.DeleteMarks(employee\_id);

}

}

}

School – Model Class

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

namespace Sl\_phase3project4.Models

{

public class School

{

private int \_marks;

public int Marks

{

get { return \_marks; }

set { \_marks = value; }

}

private int \_studentid;

public int Studentid

{

get { return \_studentid; }

set { \_studentid = value; }

}

private int \_subjectid;

public int Subjectid

{

get { return \_subjectid; }

set { \_subjectid = value; }

}

}

}

School Controller:

using ClassLibrary1;

using ClassLibrary3;

using Sl\_phase3project4.Models;

using System;

using System.Collections.Generic;

using System.Linq;

using System.Net;

using System.Net.Http;

using System.Runtime.CompilerServices;

using System.Web.Http;

namespace Sl\_phase3project4.Controllers

{

public class SchoolController : ApiController

{

Helper helper = null;

public SchoolController()

{

helper = new Helper();

}

[Route("GetAllMarks")]

public List<School> GetBookList()

{

//return new string[] { "value1", "value2" };

List<BAL> empbal = new List<BAL>(); empbal = helper.ShowMarkList();

List<School> emps = new List<School>();

foreach (var item in empbal)

{

//Employees emp = new Employees();

emps.Add(new School { Marks = item.Marks, Subjectid = item.Subjectid, Studentid = item.Studentid });

}

return emps;

}

[Route("FindMarks/{id}")]

public School GetBookByID(int id)

{

BAL empbal = new BAL();

empbal = helper.SearchMark(id);

School emp = new School();

emp.Marks = empbal.Marks;

emp.Subjectid = empbal.Subjectid;

emp.Studentid = empbal.Studentid;

return emp;

}

[Route("AddMark")]

// POST api/<controller>

public HttpResponseMessage Post([FromBody] School empdata)

{

BAL empbal = new BAL();

empbal.Marks = empdata.Marks;

empbal.Subjectid = empdata.Subjectid;

empbal.Studentid = empdata.Studentid;

bool ans = helper.addmarks(empbal);

if (ans)

{

return Request.CreateResponse(HttpStatusCode.OK);

}

else

{

return Request.CreateResponse(HttpStatusCode.NotAcceptable);

}

}

[Route("UpdateMark/{id}")]

// PUT api/<controller>/5

public HttpResponseMessage Put(int id, [FromBody] School empdata)

{

BAL empbal = new BAL();

empbal.Marks = empdata.Marks;

empbal.Subjectid = empdata.Subjectid;

empbal.Studentid = empdata.Studentid;

bool ans = helper.editmarks(empbal);

if (ans)

{

return Request.CreateResponse(HttpStatusCode.OK);

}

else

{

return Request.CreateResponse(HttpStatusCode.NotAcceptable);

}

}

// DELETE api/<controller>/5

[Route("DeleteMark/{id}")]

public HttpResponseMessage Delete(int id)

{

bool ans = helper.RemoveMark(id);

if (ans)

{

return Request.CreateResponse(HttpStatusCode.OK);

}

else

{

return Request.CreateResponse(HttpStatusCode.NotAcceptable);

}

}

}

}

Web.config:

<connectionStrings>

<add connectionString="Data Source=LAPTOP-04NNP7B7\SQLEXPRESS;Initial Catalog = School;Integrated Security= True" name ="Schooldb" providerName ="System.Data.SqlClient"></add>

</connectionStrings>