public class Course

{

public string Name { get; set; }

}

public class Student

{

public int Student\_id { get; set; }

public int Advisor\_id { get; set; }

public string Student\_Name { get; set; }

public int Major\_id { get; set; }

}

[WebMethod]

public void CreateCard(int courseid, string coursecode, string coursetime, string coursetype, string

title, string description, int credits, string coursesubtype)

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "SoftwareEngineeringDB";

uid = "elizabeth";

password = "^guesswhoSE420$";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to select from the database.

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

cmd.CommandText = "CreateCard";

cmd.CommandType = CommandType.StoredProcedure;

//The following adds my parameters

//the string is the column name and the second part is either the explicit SqlDbType

// or the variable of the value to be used int the query.

cmd.Parameters.AddWithValue("courseid", SqlDbType.Int).Value = courseid;

//The next section of code does not use explicit conversion

//It uses implicit conversion because I kept getting errors otherwise.

//The errors were about utilizing the wrong data type which the implicit conversion takes care

//of.

cmd.Parameters.AddWithValue("coursecode", coursecode);

cmd.Parameters.AddWithValue("coursetime", coursetime);

cmd.Parameters.AddWithValue("coursetype", coursetype);

cmd.Parameters.AddWithValue("title", title);

cmd.Parameters.AddWithValue("description", description);

//The following line is the only line in this section that uses explicit conversion

cmd.Parameters.AddWithValue("credits", SqlDbType.Int).Value = credits;

cmd.Parameters.AddWithValue("coursesubtype", coursesubtype);

//Execute command

cmd.ExecuteNonQuery();

}

[WebMethod]

public void DeleteCard(int courseid)

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "2-15-2016-software-enginerring";

uid = "root";

password = "jacob";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to select from the database.

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

//Used remove to test my procedure

cmd.CommandText = "DeleteCard";

cmd.CommandType = CommandType.StoredProcedure;

//The following lines is used to utilize user input inside the stored procedure

cmd.Parameters.AddWithValue("courseid", SqlDbType.Int).Value = courseid;

//Execute command

cmd.ExecuteNonQuery();

}

[WebMethod]

public List<Student> ListTest()

//int choice

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "2-15-2016-software-enginerring";

uid = "root";

password = "jacob";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to select from the database.

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

//Used remove to test my procedure

cmd.CommandText = "ListTestProcedure";

cmd.CommandType = CommandType.StoredProcedure;

//The following line is used to utilize user input inside the stored procedure

// cmd.Parameters.AddWithValue("studentid", SqlDbType.Int).Value = choice;

//List to hold student objects. Is necessary to return the object which

// then lets us return multiple data types inside the object

List<Student> Test = new List<Student>();

//Create a reader for my cmd

MySqlDataReader myReader = cmd.ExecuteReader();

while (myReader.Read())

{

//Create student object

//Have the object creation inside the loop otherwise the prior objects that

// were inserted into the list will be overwritten by the very last record.

Student Baxter = new Student();

//Each part will grab only one cell of data

// Baxter.Student\_id = Convert.ToInt32(MyReader.Read);

Baxter.Student\_id = myReader.GetInt32(0);

Baxter.Advisor\_id = myReader.GetInt32(1);

Baxter.Student\_Name = myReader.GetString(2);

Baxter.Major\_id = myReader.GetInt32(3);

Test.Add(Baxter);

// Convert.GetInt32().MyReader

// myReader.GetInt32(2);

// Test.Add(myReader.GetString(0) + " " + myReader.GetString(1) +

// " " + myReader.GetString(2) + " " + myReader.GetString(3));

}

//Return String Value

return Test;

/\*

The following code is used to return the value in the first row and first column

object o = cmd.ExecuteScalar();

string re = o.ToString();

return re;\*/

//close connection

//connection.Close();

}

[WebMethod]

public string Select(int choice)

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "2-15-2016-software-enginerring";

uid = "root";

password = "jacob";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to select from the database.

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

//Used remove to test my procedure

cmd.CommandText = "Select";

cmd.CommandType = CommandType.StoredProcedure;

//The following line is used to utilize user input inside the stored procedure

cmd.Parameters.AddWithValue("studentid", SqlDbType.Int).Value = choice;

//String variable to store the values being read by my data reader

// also so data can be returned.

string res = "";

//Create a reader for my cmd

MySqlDataReader myReader = cmd.ExecuteReader();

while (myReader.Read())

{

//Each part will grab only one cell of data

res = res + myReader.GetString(0) + " " + myReader.GetString(1) +

" " + myReader.GetString(2) + " " + myReader.GetString(3);

}

//Return String Value

return res;

/\*

The following code is used to return the value in the first row and first column

object o = cmd.ExecuteScalar();

string re = o.ToString();

return re;\*/

//close connection

//connection.Close();

}

/\*

commented out from here to end of add method

[WebMethod]

public void remove()

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "2-15-2016-software-enginerring";

uid = "root";

password = "jacob";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to insert into the database.

// string query = "INSERT INTO tableinfo (name, age) VALUES('John Smith', '33')";

//string query = "INSERT INTO student(Student\_id, Advisor\_id, Student\_Name, Major\_ID) VALUES('3013', '1', 'Test', '1')";

//This part assigns the connection and string query to cmd

// MySqlCommand cmd = new MySqlCommand(query, connection);

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

//Assign connection info to MySqlCommand Object

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

//Used remove to test my procedure

cmd.CommandText = "Remove";

cmd.CommandType = CommandType.StoredProcedure;

//Execute command

cmd.ExecuteNonQuery();

//close connection

connection.Close();

}

[WebMethod]

public void Update()

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "2-15-2016-software-enginerring";

uid = "root";

password = "jacob";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to insert into the database.

// string query = "INSERT INTO tableinfo (name, age) VALUES('John Smith', '33')";

//string query = "INSERT INTO student(Student\_id, Advisor\_id, Student\_Name, Major\_ID) VALUES('3013', '1', 'Test', '1')";

//This part assigns the connection and string query to cmd

// MySqlCommand cmd = new MySqlCommand(query, connection);

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

//Assign connection info to MySqlCommand Object

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

//Used remove to test my procedure

cmd.CommandText = "Update";

cmd.CommandType = CommandType.StoredProcedure;

//Execute command

cmd.ExecuteNonQuery();

//close connection

connection.Close();

}

[WebMethod]

public void Add()

{

MySqlConnection connection;

string server;

string database;

string uid;

string password;

server = "localhost";

database = "2-15-2016-software-enginerring";

uid = "root";

password = "jacob";

string connectionString;

connectionString = "SERVER=" + server + ";" + "DATABASE=" +

database + ";" + "UID=" + uid + ";" + "PASSWORD=" + password + ";";

connection = new MySqlConnection(connectionString);

connection.Open();

//The following is used to insert into the database.

// string query = "INSERT INTO tableinfo (name, age) VALUES('John Smith', '33')";

//string query = "INSERT INTO student(Student\_id, Advisor\_id, Student\_Name, Major\_ID) VALUES('3013', '1', 'Test', '1')";

//This part assigns the connection and string query to cmd

// MySqlCommand cmd = new MySqlCommand(query, connection);

//Open up a new object of MySqlCommand

MySqlCommand cmd = new MySqlCommand();

//Assign connection info to MySqlCommand Object

cmd.Connection = connection;

//The following two lines of actual code are the part where I enter my stored procedure name

//Then specify in the object that it is a stored procedure

//Used remove to test my procedure

cmd.CommandText = "Add";

cmd.CommandType = CommandType.StoredProcedure;

//Execute command

cmd.ExecuteNonQuery();

//close connection

connection.Close();

}

\*/

}