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Database connectivity –

1. Database is generally use to backend concept.
2. Connect Sql server to .NET framework using SQL server library.

How to connect database to aspx page?

Step 1 – Include database library

SQL Server – SQLClient

XML – XML

Excel – OLEDB

MS access – OLEDB

Step 2 – create database object (build in object).

1. Connection object – SQLConnection – Read database location(path / connection string)
2. Command object - SQLCommand – read all query(insert, update, delete, select, etc)
3. Data reader object – SQLDataReader – Only use select Query

Note – all object is to create before the page load event.

Step 3 – break the page refreshment.

If (! isPOSTBACK){

}

Note – this condition is use inside the page load

Database management using C#

There are following method is use to managing database entity.

1. Parameterise method
2. Class and object method
3. Store procedure method
4. 3 tire architecture method

Parameterise Method

Coding steps

Variable = value;

Object (variable)

String k = “insert”;

Com = new SqlCommand (k)

String d = “Delete”;

Com = new sqlCommand(d);

String u = “update”;

Com = new sqlcommand(u);

String s = “Select”;

Com = new sqlcommand(s);

String p = “Path”;

Con = new sqlconnection(p);

Coding steps –

Step 1.

College

Student

Open your database.

Step 2. Apply Command

Step 3. Execute Command

Parametrise Method

1. In this method is use to parameter variable.
2. All parameter variable is represent @ operator.
3. Parameter variable depend on database column.

Roll - @Roll1

Name - @Name1

City - @City1

1. How to pass data in a parameter variable?

commandObject.parameter.addWithValue(“variable\_name”, Control\_name);

Com.parameter.addWithValue(“Roll1”, TextBox1.Text);

Com.parameter.addWithValue(“Name1”, TextBox2.Text)

Com.parameter.addWithValue(“City1”, TextBox3.Text);

Command Object Parameter

Sqlcommand(variable,ConnectionObject);

Data base location finder - @

Update query – update student set Name = @Name1 Where Roll = @Roll1

Com = new sqlcommand(k, cn);

Com.parameter.addWithValue(“Roll1”, TextBox1.Text)

Com.parameter.addWithValue(“Name@”, TextBox2.Text)

Com.executeNonQuery()

How to use select query in C#?

1. Select query is use to DataReader Object.
2. Data reader returning to specific condition (True/ False).

Data reader is close after end of the program

Task 1

Create a web form regiratation.aspx

Roll – tb button find

Name – tb

Email – tb

Mibile – tb

City – drop down (fix city Nagpur pune mumbai)

Subject – drop down list (CSE, IT, Civil)

Mark1 – tb ….. mark5 tb

Total tb

Grade tb

Button Submit update delete

Logic

1. Create a table student with all column.
2. Generate total if all mark > 40.
3. Insert record in a table in following condition.
4. All mark > 40
5. Display grade

Total > 250 – Grade A

Total > 150 and total < 250 – Grade B

Otherwise fail

1. Total and grade insert in a database if all subject mark > 40.
2. Duplicate roll no cannot insert in a database (exclude primary key).
3. Update all record on the bases of specific roll no (do not change subject, mark, total, grade).
4. Delete record as per specific roll no.
5. Use validation (email, mobile)
6. Accept only string data value (Name Text Box find on google).
7. After submit complete information in a database open message.aspx where display conjugational message and print all specific information using database.
8. Form design using CSS (message also).
9. Message – page load inside !ispostback event.