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3 tier architecture example in asp.net with C#

By: Suresh Dasari May 17, 2010

Categories: [3-TierArchitecture](#) , [ASP.net](#)

Introduction

Here I will explain about uses of 3-Tier architecture and how to create or implement 3-tier architecture for our project in asp.net

Description

1. What is the use of 3-tier architecture and why we go for that architecture?
2. First we need to know what 3-Tier architecture is.
3. How to create 3-Tier architecture for our project?

Uses of 3-Tier Architecture

1. To make application more understandable.
2. Easy to maintain, easy to modify application and we can maintain good look of architecture.

If we use this 3-Tier application we can maintain our application in consistency manner.

Basically 3-Tier architecture contains 3 layers

1. Application Layer or Presentation Layer
2. Business Access Layer(BAL) or Business Logic Layer(BLL)
3. Data Access Layer(DAL)

Here I will explain each layer with simple example that is User Registration

Application Layer or Presentation Layer

Presentation layer contains UI part of our application i.e., our **aspx** pages or input is taken from the user. This layer mainly used for design purpose and get or set the data back and forth. Here I have designed my registration aspx page like this

Registration Form

Username	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
FirstName	<input type="text"/>
LastName	<input type="text"/>
Email	<input type="text"/>
Phone No	<input type="text"/>
Location	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Reset"/>	

This is Presentation Layer for our project Design your page like this and double click on button save now in code behind we need to write statements to insert data into database this entire process related to Business Logic Layer and Data Access Layer.

Now we will discuss about Business Access Layer or Business Logic Layer

Business Access Layer (BAL) or Business Logic Layer (BLL)

This layer contains our business logic, calculations related with the data like insert data, retrieve data and validating the data. This acts as a interface between Application layer and Data Access Layer

Now I will explain this business logic layer with my sample

I have already finished form design (Application Layer) now I need to insert user details into database if user click on button save. Here user entering details regarding Username, password, Firstname, Lastname, Email, phone no, Location. I need to insert all these 7 parameters to database. Here we are placing all of our database actions into data access layer (DAL) in this case we need to pass all these 7 parameters to data access layers. In this situation we will write one function and we will pass these 7 parameters to function like this
 String Username= **InsertDetails** (string Username, string Password, string Email, string Firstname, string Lastname, string phnno, string Location)

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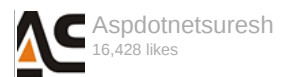
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If we need this functionality in another button click there also we need to declare the parameters like **string Username**, **string Password** like this rite. If we place all these parameters into one place and use these parameters to pass values from application layer to data access layer by using single object to whenever we require how much coding will reduce think about it for this reason we will create **entity layer** or **property layer** this layer comes under sub of group of our Business Logic layer

Don't get confuse just follow my instructions enough
How we have to create entity layer it is very simple

Right click on your project web application----> select add new item ----> select class file in wizard ----> give name as **BEL.CS** because here I am using this name click ok

Open the **BEL.CS** class file declare the parameters like this in entity layer

Don't worry about code it's very simple for looking it's very big nothing is there just parameters declaration that's all check I have declared whatever the parameters I need to pass to data access layer I have declared those parameters only

BEL.CS

```
#region Variables
/// <summary>
/// User Registration Variables
/// </summary>
private string _UserName;
private string _Password;
private string _FirstName;
private string _LastName;
private string _Email;
private string _Phoneno;
private string _Location;
private string _Created_By;
#endregion

/// <summary>
/// Gets or sets the <b>_UserName</b> attribute value.
/// </summary>
/// <value>The <b>_UserName</b> attribute value.</value>
public string UserName
{
    get
    {
        return _UserName;
    }
    set
    {
        _UserName = value;
    }
}

/// <summary>
/// Gets or sets the <b>_Password</b> attribute value.
/// </summary>
/// <value>The <b>_Password</b> attribute value.</value>
public string Password
{
    get
    {
        return _Password;
    }
    set
    {
        _Password = value;
    }
}

/// <summary>
/// Gets or sets the <b>_FirstName</b> attribute value.
/// </summary>
/// <value>The <b>_FirstName</b> attribute value.</value>
public string FirstName
{
    get
    {
        return _FirstName;
    }
    set
    {
        _FirstName = value;
    }
}

/// <summary>
/// Gets or sets the <b>_LastName</b> attribute value.
/// </summary>
/// <value>The <b>_LastName</b> attribute value.</value>
public string LastName
{
    get
    {
        return _LastName;
    }
    set
    {
        _LastName = value;
    }
}
```

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AjaxAccordionControl			AjaxCalenda	
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page	create	generate	script	jQuery
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jQuery	Video	Plugins	jqGridview	scroll
top/bottom	of	div	s	
folder	tree	view		

```

}

/// <summary>
/// Gets or sets the <b>_Email</b> attribute value.
/// </summary>
/// <value>The <b>_Email</b> attribute value.</value>
public string Email
{
    get
    {
        return _Email;
    }
    set
    {
        _Email = value;
    }
}

/// <summary>
/// Gets or sets the <b>_Phoneno</b> attribute value.
/// </summary>
/// <value>The <b>_Phoneno</b> attribute value.</value>
public string Phoneno
{
    get
    {
        return _Phoneno;
    }
    set
    {
        _Phoneno = value;
    }
}

/// <summary>
/// Gets or sets the <b>_Location</b> attribute value.
/// </summary>
/// <value>The <b>_Location</b> attribute value.</value>
public string Location
{
    get
    {
        return _Location;
    }
    set
    {
        _Location = value;
    }
}

/// <summary>
/// Gets or sets the <b>_Created_By</b> attribute value.
/// </summary>
/// <value>The <b>_Created_By</b> attribute value.</value>
public string Created_By
{
    get
    {
        return _Created_By;
    }
    set
    {
        _Created_By = value;
    }
}

```

Our parameters declaration is finished now I need to create Business logic layer how I have create it follow same process for add one class file now give name called **BLL.CS**. Here one point don't forget this layer will act as only mediator between application layer and data access layer based on this assume what this layer contains. Now I am writing the following **BLL.CS**(Business Logic layer)

```

#region Insert UserInformationDetails
/// <summary>
/// Insert UserDetails
/// </summary>
/// <param name="objUserBEL"></param>
/// <returns></returns>
public string InsertUserDetails(BEL objUserDetails)
{
    DAL objUserDAL = new DAL();
    try
    {
        return objUserDAL.InsertUserInformation(objUserDetails);
    }
    catch (Exception ex)
    {
        throw ex;
    }
    finally
    {
        objUserDAL = null;
    }
}
#endregion
Here if you observe above code you will get doubt regarding these

```

```

what is
BEL objUserDetails
DAL objUserDAL = new DAL();

```

and how this method comes

```
return objUserDAL.InsertUserInformation(objUserDetails);
```

Here BEL objUserDetails means we already created one class file called BEL.CS with some parameters have you got it now I am passing all these parameters to Data access Layer by simply create one object for our BEL class file

What is about these statements I will explain about it in data access layer

```

DAL objUserDAL = new DAL();
return objUserDAL.InsertUserInformation(objUserDetails);

```

this DAL related our Data access layer. Check below information to know about that function and Data access layer

Data Access Layer(DAL)

Data Access Layer contains methods to connect with database and to perform insert,update,delete,get data from database based on our input data

I think it's too much data now directly I will enter into DAL

Create one more class file like same as above process and give name as **DAL.CS**

Write the following code in DAL class file

```

//SQL Connection string
string ConnectionString = ConfigurationManager.AppSettings["LocalConnection"].ToString();

#region Insert User Details
/// <summary>
/// Insert Job Details
/// </summary>
/// <param name="objBELJobs"></param>
/// <returns></returns>
public string InsertUserInformation(BEL objBELUserDetails)
{
    SqlConnection con = new SqlConnection(ConnectionString);
    con.Open();
    SqlCommand cmd = new SqlCommand("sp_userinformation", con);
    cmd.CommandType = CommandType.StoredProcedure;
    try
    {
        cmd.Parameters.AddWithValue("@UserName", objBELUserDetails.UserName);
        cmd.Parameters.AddWithValue("@Password", objBELUserDetails.Password);
        cmd.Parameters.AddWithValue("@FirstName", objBELUserDetails.FirstName);
        cmd.Parameters.AddWithValue("@LastName", objBELUserDetails.LastName);
        cmd.Parameters.AddWithValue("@Email", objBELUserDetails.Email);
        cmd.Parameters.AddWithValue("@PhoneNo", objBELUserDetails.Phoneno);
        cmd.Parameters.AddWithValue("@Location", objBELUserDetails.Location);
        cmd.Parameters.AddWithValue("@Created_By", objBELUserDetails.Created_By);
        cmd.Parameters.Add("@ERROR", SqlDbType.Char, 500);
        cmd.Parameters["@ERROR"].Direction = ParameterDirection.Output;
        cmd.ExecuteNonQuery();
        string strMessage = (string) cmd.Parameters["@ERROR"].Value;
        con.Close();
        return strMessage;
    }
    catch (Exception ex)
    {
        throw ex;
    }
    finally
    {
        cmd.Dispose();
        con.Close();
        con.Dispose();
    }
}
#endregion

```

Here if you observe above functionality I am getting all the parameters by simply creating BEL objBELUserDetails. If we create one entity file we can access all parameters through out our project by simply creation of one object for that **entity class** based on this we can reduce redundancy of code and increase re usability

Observe above code have u seen this function before? in **BLL.CS** i said i will explain it later got it in **DAL.CS** I have created one function **InsertUserInformation** and using this one in **BLL.CS** by simply creating one object of **DAL** in **BLL.CS**.

Here you will get one doubt that is why **BLL.CS** we can use this **DAL.CS** directly into our code behind we already discuss Business logic layer provide interface between DAL and Application layer by using this we can maintain consistency to our application.

Now our **Business Logic Layer** is ready and our **Data access layer** is ready now how we can use this in our application layer write following code in your save button click like this

```

protected void btnsubmit_Click(object sender, EventArgs e)
{
    string Output = string.Empty;
}

```

```
if (txtpwd.Text == txtcnmpwd.Text)
{
    BEL objUserBEL = new BEL();

    objUserBEL.UserName = txtuser.Text;
    objUserBEL.Password = txtpwd.Text;
    objUserBEL.FirstName = txtfname.Text;
    objUserBEL.LastName = txtlname.Text;
    objUserBEL.Email = txtEmail.Text;
    objUserBEL.Phoneno = txtphone.Text;
    objUserBEL.Location = txtlocation.Text;
    objUserBEL.Created_By = txtuser.Text;
    BLL objUserBLL = new BLL();
    Output = objUserBLL.InsertUserDetails(objUserBEL);
}
else
{
    Page.RegisterStartupScript("UserMsg", "<Script language=javascript>alert('" + "Password mismatch" + "');</script>");
}
lblErrorMsg.Text = Output;
}
```

Here if you observe I am passing all parameters using this BEL(Entity Layer) and we are calling the method InsertUserDetails by using this BLL(Business Logic Layer)

Now run your application test with debugger you can get idea clearly.

I hope it helps you.

Download sample code attached



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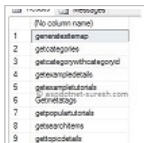
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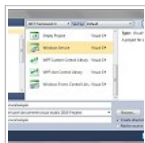
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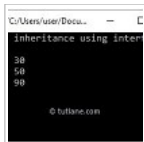
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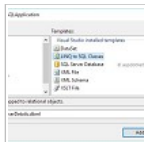
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ENGAGEYA

222 comments :



hyu said...

1

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Your All Coding in Blogspot is meaningful.Nice tutorial of 3-tiers for beginner.. I Rate 5 Star



2

December 25, 2010 at 4:09 AM



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March 28, 2011 at 9:59 AM



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March 28, 2011 at 6:03 PM

5

April 10, 2011 at 5:43 AM

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September 3, 2011 at 12:02 AM

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October 20, 2011 at 7:16 AM

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December 23, 2011 at 11:31 PM

11

December 26, 2011 at 1:59 AM

12

February 15, 2012 at 10:45 PM

13

April 13, 2012 at 3:07 AM

Mahesh said...

nice article very useful

14

[April 18, 2012 at 7:31 AM](#)



sattar342 said...

15

Thank you very much Mr. Suresh

[April 29, 2012 at 4:52 PM](#)



yashu said...

16

thanku ...

[May 1, 2012 at 11:02 PM](#)

Anonymous said...

17

Hello Sir,

Thanks ... It is very helpful for all ...Keep up your Good work. I am very impressed the way you are explaining.

[May 23, 2012 at 10:52 PM](#)

Ram said...

18

Hi Suresh,

Can you give one simple project for MVC3 application in Visual Studio 2010

[May 29, 2012 at 4:29 AM](#)

Anonymous said...

19

where is database procedure...

[July 3, 2012 at 5:17 AM](#)



Santhosh Kumar said...

20

thanks for your valuable information, it make ma to easy understand 3 tier architech. keep on rocks

[July 22, 2012 at 11:22 PM](#)

Anonymous said...

21

What is need of private variables in BEL.cs as you are using public variables everywhere in your example?

[July 24, 2012 at 12:06 AM](#)

Anonymous said...

22

Awsome...i was searching for such a good poast. thanks alot :)

[July 26, 2012 at 11:02 PM](#)



pankaj khairanar said...

23

really nice article!

[August 2, 2012 at 4:12 PM](#)



Susil singh said...

24

Sir, how to create database for this project? i m new in this field so please explain for creating database and how to connect.

[August 2, 2012 at 7:47 PM](#)



Susil singh said...

25

Hi! Brothers, please tell me how to create database for this project.

[August 2, 2012 at 7:51 PM](#)



ALOK NAYAK said...

26

Its really easy way to understand 3-tire Arch.
I have already done but confused abt 3-tire.

Thanks Suresh...

[August 17, 2012 at 7:48 AM](#)



SHANKAR said...

27

Hello suresh p-lease save me...i have lots of confusion when i writting SP for this article...i am requested to you...please tell me key points to create proc for this app..thanks

[August 18, 2012 at 9:42 AM](#)

Anonymous said...

28

Hi Suresh, While launching the applicaton, after entering the user details its giving me an error "Procedure or function sp_userinformation has too many arguments specified."

[August 18, 2012 at 8:33 PM](#)



Harshu said...

29

Hi Suresh, While launching the applicaton, after entering the user details its giving me an error "Procedure or function sp_userinformation has too many arguments specified."

[August 18, 2012 at 8:34 PM](#)



SHANKAR said...

30

Hello Anonymous for fixing that Bug we need to pass prameter for oput...here is the Proc for that app...after writing the code once test in sqlserver only then after write sp in DAL class..

```
CREATE TABLE tbl_tier
(
  UserName VARCHAR(30),
  Password VARCHAR(30),
  FirstName VARCHAR(30),
  LastName VARCHAR(30),
  Email VARCHAR(30),
  Phoneno VARCHAR(30),
  Location VARCHAR(30),
  Created_By VARCHAR(30)
)
ALTER PROC sp_userinformation
(
  @UserName VARCHAR(30),
  @Password VARCHAR(30),
  @FirstName VARCHAR(30),
  @LastName VARCHAR(30),
  @Email VARCHAR(30),
  @Phoneno VARCHAR(30),
  @Location VARCHAR(30),
  @Created_By VARCHAR(30),
  @ERROR VARCHAR(30) OUTPUT
)
AS
BEGIN
  INSERT INTO tbl_tier
  VALUES(@UserName,@Password,@FirstName,@LastName,@Email,@Phoneno,@Location,@Created_By)
END

DECLARE @HN VARCHAR(30)
EXEC sp_userinformation
'SHANKAR','12345','SHANKAR','PARSHIMONI','PARSHI@GMAIL.COM','9966385883','HYDERABAD','SHANKAR',
@ERROR=@HN OUTPUT
SELECT @HN
```

[August 18, 2012 at 9:15 PM](#)



SHANKAR said...

31

hello suresh pls visit this site,i am getting one bug in BLL.cs file i,e Unable to cast object of type 'System.DBNull' to type 'System.String'...i have been fixing this bug but i couldn't do...so please drop you answer ...tanq

[August 18, 2012 at 9:21 PM](#)



SHANKAR said...

32

Hello friends finally i got final result in 3 tier architectur app.but i have taken only 3 controls.i have posted entire code including proc in my blogspot...so please click this link for further details <http://www.shankar-mydotnetsite.blogspot.in/>

[August 19, 2012 at 1:49 AM](#)

Anonymous said...

33

Hi this post was very nice & 200% useful for 3Tier freshers including me. This shows your technical stuff as well as reputation.

I am expecting similar like this post for basic or freshers who are willing to learn mvc, because we & our blog fans need to update with current trend & technology.

So, Please post mvc example.

Thank you!

[August 24, 2012 at 12:08 AM](#)

Sagar said...

34

Hi this post was very nice & 200% useful for 3Tier freshers including me. This shows your technical stuff as well as reputation.

I am expecting similar like this post for basic or freshers who are willing to learn mvc, because we & our blog fans need to update with current trend & technology.

So, Please post mvc example.

Thank you!

[August 24, 2012 at 12:09 AM](#)

Uddhav Garkal said...

35

nice web site.... keep it up

[August 28, 2012 at 12:45 AM](#)

Munavvar Patel said...

36**NOTICE**

BEL works just for calling method of DLL(really overhead of coding and need one extra class).

why can't we write(call dll method)in codebehind file(directly in button "Click event")?

[September 2, 2012 at 10:20 PM](#)

Anonymous said...

37

@Shankar - Kindly add the below line after the insert statement

SET @ERROR ='success' to avoid casting error.

[September 9, 2012 at 9:25 AM](#)

Anonymous said...

38

For a fresher like me it will be very helpful if you publish the entire code (ie), with stored procedures and database tables.

[September 9, 2012 at 11:33 PM](#)

Anonymous said...

39

```
CREATE TABLE tbl_tier
(
  UserName VARCHAR(30),
  Password VARCHAR(30),
  FirstName VARCHAR(30),
  LastName VARCHAR(30),
  Email VARCHAR(30),
  Phoneno VARCHAR(30),
  Location VARCHAR(30),
  Created_By VARCHAR(30)
)
ALTER PROC sp_userinformation
(
  @UserName VARCHAR(30),
  @Password VARCHAR(30),
  @FirstName VARCHAR(30),
  @LastName VARCHAR(30),
  @Email VARCHAR(30),
  @Phoneno VARCHAR(30),
  @Location VARCHAR(30),
  @Created_By VARCHAR(30),
  @ERROR VARCHAR(30) OUTPUT
)
AS
BEGIN
  INSERT INTO tbl_tier
```

```
VALUES(@UserName,@Password,@FirstName,@LastName,@Email,@Phoneno,@Location,@Created_By)
SET @ERROR='Success'
END
```

the stored procedure should look like above. You need to pass the out parameter.

[September 11, 2012 at 10:10 AM](#)

Anonymous said...

40

do i have to create a class for each table?
i mean BEL class.

[September 17, 2012 at 2:26 AM](#)

Sneha said...

41

Hey..dats a very easiest way you explained..
really helpfull..

[September 20, 2012 at 10:39 AM](#)

Anonymous said...

42

Very good artical sir

[September 27, 2012 at 1:05 PM](#)

 chothani punita said...

43

Awesome post..I got idea about the 3 tier architecture...thank u so much sir.

I am going to develop a website---Online Examination System in asp.net with 3 tier architecture. Plz help me how
can I do it as I new in asp.net, plz explain me in detail..
Thanking u.

[October 2, 2012 at 6:24 AM](#)

Anonymous said...

44

No need to add entity layer.....
BAL and DAL are enough...

[October 8, 2012 at 10:51 PM](#)

Anonymous said...

45

where is the code for reset button?
it is just to clear all the fields.....

[October 8, 2012 at 10:57 PM](#)

Poonam said...

46

Vry nice description of 3 tier architecture for begginer.. Thank u!!

[October 10, 2012 at 6:11 AM](#)

Anonymous said...

47

GUD POST

[October 16, 2012 at 4:47 AM](#)

Anonymous said...

48

gr8

[October 16, 2012 at 6:11 AM](#)







vipin pandey said...

49

hi! suresh
it'S very helpful
but, please write the stored procdure of it.

that'S awesome
thank you sir

[October 22, 2012 at 1:37 AM](#)

	Ameerpy said...	50
	good information thank you	
	October 22, 2012 at 11:03 AM	
	Anonymous said...	51
	fabulous article . Got a clear picture regarding entity/property layer. Regards Raj	
	October 24, 2012 at 11:54 PM	
	Anonymous said...	52
	Nicceeeeeee bro.... easiest and best one from all	
	November 1, 2012 at 4:22 AM	
	Anonymous said...	53
	realy a nice tutorial i ever seen about three tier architecture.....	
	November 3, 2012 at 1:01 AM	
	JPEdwards said...	54
	its very nice sir to understand easily i am thankful to u for that	
	November 11, 2012 at 10:08 AM	
	ANOOP said...	55
	haii... this post is very helpful... i want to learn more and i have some doubts.. pls give me your mailid	
	November 15, 2012 at 9:31 PM	
	Anonymous said...	56
	Hi, I like your example of three tier example .It is very easy to understand . I have a request for you can you please tell me about stored Procedure ,So i can get best explanation. THANKS A LOT..And keep it up	
	November 22, 2012 at 3:01 AM	
	Anonymous said...	57
	HAI	
	in .aspx it show error at InsertUserDetails(objUserBEL); shos that 'BEL does not contain a definition for 'InsertUserDetails'and no extension method 'InsertUserDetails' accepting a first argument of type 'BEL' could be found	
	November 24, 2012 at 3:05 AM	
	Anonymous said...	58
	what is problem in this	
	November 24, 2012 at 3:06 AM	
	chanti said...	59
	suresh bhayya awesome simply code bhayya	
	November 28, 2012 at 12:18 AM	
	sagar said...	60
	Exactly good working by you guys.... keep it continues Thanks to understand 3 tier arch...	
	November 28, 2012 at 1:32 AM	
	Anonymous said...	61

very nice Mr Suresh...
i like ur demo and code too..

[November 29, 2012 at 5:05 AM](#)

Anonymous said...

62

Mr Harshu..pls check parameter which u passed...
so u can solve ur error...

[November 29, 2012 at 5:07 AM](#)

Anonymous said...

63

Very good article I understood it given step by step...very useful

[November 29, 2012 at 5:21 AM](#)

Anonymous said...

64

only the thing is can u provide this article without using out parameter it is difficult to understand fresher how the value is returned? to the BLL can you brief it?

Thank in advance..

[November 29, 2012 at 5:42 AM](#)

Anonymous said...

65

Thank u sir.....)

[December 5, 2012 at 9:17 PM](#)

Anonymous said...

66

Nice article .Will you pls explain how to make 3-tier architecture?

[December 6, 2012 at 10:48 PM](#)

Anonymous said...

67

can u please upload image to folder using this same method.... please

[December 9, 2012 at 8:09 PM](#)

Anonymous said...

68

gud one...

[December 10, 2012 at 11:34 PM](#)

Anonymous said...

69

nice..

[December 11, 2012 at 4:50 AM](#)

Anonymous said...

70

[December 13, 2012 at 5:20 AM](#)



Venkatesan K said...

71

hi Mr.suresh.....
Its very helpful to me and i have a doubt?
how can i insert the values in more than tables from windows form to database via DAL and BAL concept...Please
Tell me and i am waiting for your ans

[December 16, 2012 at 9:01 PM](#)

hima said...

72

thank u for sharing the articles.....

[December 20, 2012 at 8:26 AM](#)



Sandhya Reddy said...

73

Very clear for freshers.....

[December 21, 2012 at 10:40 PM](#)

 [Sandhya Reddy](#) said...

Very clear for freshers.....

74

[December 21, 2012 at 10:43 PM](#)



[Ranga Rao](#) said...

Hi suresh its a perfect 3 tier architecture code and very easy to understand. please mention connection string in web.config file.

please send me how to update dropdownlist inside gridview inn rowupdating event includind database back up. My mail is rangarao58@gmail.com

75

[December 28, 2012 at 10:46 PM](#)



[Ranga Rao](#) said...

Hi suresh its a perfect 3 tier architecture code and very easy to understand. please mention connection string in web.config file.

please send me how to update dropdownlist inside gridview inn rowupdating event includind database back up. My mail is rangarao58@gmail.com

76

[December 28, 2012 at 10:48 PM](#)

Anonymous said...

Hi Suresh this is a good example for but not for 3 tier

77

[December 30, 2012 at 9:43 PM](#)

Anonymous said...

Hi Suresh this is a good example for 3 layer but not for 3 tier

78

[December 30, 2012 at 9:46 PM](#)



[Jatin](#) said...

This comment has been removed by the author.

79

[January 3, 2013 at 2:15 AM](#)



[Jatin](#) said...

Suresh, u r really doing a nice job..

80

[January 3, 2013 at 2:16 AM](#)



[Jatin](#) said...

your way of explanation is really easy and efficient.. :)

81

[January 3, 2013 at 2:18 AM](#)

Anonymous said...

Ya its good topic..
But i have one doubt on 3 tier architecture.
How to fill master and child table using 3 Tier architecture by using Transaction?
Please send me answer to this mail id frnz.jun@gmail.com

82

[January 6, 2013 at 12:00 AM](#)

Anonymous said...

Jayant :gud 1 it actually made some thoughts clear

83

[January 7, 2013 at 12:55 AM](#)

 [sureshbehera](#) said...









its very valuable for me i want mvc demo project also plz plz send me on e-mail sureshbehera12@gmail.com









84

[January 7, 2013 at 2:44 AM](#)

Anonymous said...

85

	great	
	January 9, 2013 at 1:05 AM	
	Thatiboina Prasad said...	86
	great	
	January 9, 2013 at 5:19 AM	
	Anonymous said...	87
	Really it is a very helpful artical for beginners and I got very much help from your article in our final year project.Thanks u mr.suresh and keep updating....	
	January 11, 2013 at 8:43 PM	
	Anonymous said...	88
	hai suresh.Is it mention any connectionstring in bl.i follow u r steps.when i am trying to execute "The connectionstring property has not been initialized" error showing in bl.	
	January 17, 2013 at 11:31 PM	
	Suneel Kumar said...	89
	Hai Suresh, it is much useful for me..., And It is very easy to understand your presentation.	
	January 24, 2013 at 11:00 PM	
	Ganesh Kumar said...	90
	good blog sir.. easy to understand. great job.....	
	January 31, 2013 at 9:50 AM	
	Ganesh Kumar said...	91
	good blog sir.. easy to understand. great job.....	
	January 31, 2013 at 9:50 AM	
	Anish Shaikh said...	92
	Thanks...It is Useful for me...great explanation Thank U very Much.... :)	
	February 4, 2013 at 5:52 AM	
	aspnet said...	93
	thank you sir ,this is helpful content	
	February 6, 2013 at 7:42 PM	
	Anonymous said...	94
	Nice and Very Help Full Sir	
	February 6, 2013 at 11:36 PM	
	Parthiban B said...	95
	Thank you This is very helpful	
	February 8, 2013 at 9:49 PM	
	Anonymous said...	96
	u should be a great teacher..u explains in very simple manner so newer people can also get your blogs...thanks u	
	February 12, 2013 at 3:20 AM	
	Shiva Katta said...	97
	Clearly understood what is 3-tier atchitecture . Thank you .	
	February 15, 2013 at 1:15 AM	

	edwin rajkumar said...	<u>98</u>
	i want coding for sign out in 3 tier architecture with session concept	
	February 21, 2013 at 2:10 AM	
	Anonymous said...	<u>99</u>
	Thanks Suresh, It is really helpful information for any .net developer and the way you explained is simply awesome....!!	
	February 21, 2013 at 6:11 AM	
	Jangu Phelix said...	<u>100</u>
	Hi Suresh, I must say you are great. I visit your site almost daily, and learn at least something new everyday. Keep it up.	
	February 21, 2013 at 11:06 PM	
	thinusha said...	<u>101</u>
	Your All Coding in Blogspot is meaningfull.Nice tutorial of 3-tiers for beginner..	
	February 22, 2013 at 4:03 AM	
	Megic Geeks Technology said...	<u>102</u>
	Hello Suresh. it is really helpfull.... keep it up.....	
	February 25, 2013 at 3:21 AM	
	sunil kumar said...	<u>103</u>
	VOUCHER: • VOUCHER NO (PK) (VAR 30) • DATE (VAR 10) • PAID TO (VAR 30) • AMOUNT (DOUBLE 30) • REASON (VAR 45) • AUTHORIZED SIGNATURE (TEXT) Voucher is the table and folling are the attribute now i want desining and store procedure with 3-tire architure with coding every thing Please help me out of the proble are mail me sunilkumar.subbu@gmail.com	
	February 26, 2013 at 3:00 AM	
	Vishal Jagani said...	<u>104</u>
	Bhai.. Suresh Thoda Easy Way me 3 Tire ka Coding Nahi Hai Kya ? Ye Samaj Me Nahi aa raha hai.. Thoda samj me aye esa kucchhh Likho na pls yaar I m Fresher for 3 tier... to kya aap kuchh Help Kar sakte ho	
	March 4, 2013 at 12:29 AM	
	Hardik-Patel said...	<u>105</u>
	nice sir its impressive and keep doing this type of stuff in easy manner. thanks a lot	
	March 10, 2013 at 3:54 AM	
	pramod said...	<u>106</u>
	hello my query is how to implement 3 tiers Architecture in whole asp.net project i.e if there is more than 10 form so how to implement 3 tiers architecture is there create each bal,dal for each databasse code please solve my query	
	March 10, 2013 at 11:49 PM	
	Marees said...	<u>107</u>
	Nice article .Will you pls explain how to make MVC 4 ?	
	March 13, 2013 at 6:18 AM	
	Anonymous said...	<u>108</u>
	nice	

[March 18, 2013 at 3:38 AM](#)

Anonymous said...

i got error in DAL.cs nullreference was unhandled by code in connectionstring

[109](#)

[March 20, 2013 at 12:29 AM](#)



[nandy](#) said...

ERROR***

i have initialized my dal object to null in finally block,
its showing error,
ExecuteNonQuery: Connection property has not been initialized.

[110](#)

[March 24, 2013 at 1:44 AM](#)



[nandy](#) said...

```
namespace BLclass
{
    public class BLPerson
    {
        public string RegisterUser(PersonInfo entityObj)
        {
            PersonDALclass dalObj = new PersonDALclass();
            try
            {
                return dalObj.RegisterUser(entityObj);
            }
            catch (Exception ex)
            {
                throw ex;
            }
            finally
            {
                dalObj = null;
            }
        }
    }
}
```

whats wrong in this code.

[111](#)

[March 24, 2013 at 2:36 AM](#)



[Kafil Jangra](#) said...

thanks alot dear suresh for your fruitful postings.

[112](#)

[March 31, 2013 at 10:01 PM](#)



[Rajesh Narra](#) said...

good post really it is very useful for everyone .thanks a lot .awesome work by you

[113](#)

[April 5, 2013 at 11:50 PM](#)



[Manpreet Kaur](#) said...

in our webpage to bind textbox we do as

textbox1.text

what is the correct synatx for binding drop down list
mail me on my id manpreetwinkle0@gmail.com

urgent

[114](#)

[April 15, 2013 at 5:48 AM](#)



[Jeevanandam Jpd](#) said...

Good Job Suresh.....Awesome Explanation in all your tutorials....

[115](#)

[April 16, 2013 at 3:54 AM](#)



[seema darade](#) said...

thanks.....It's good explanation.....

[116](#)

[April 16, 2013 at 8:52 AM](#)

Anonymous said...

nice

117

[April 25, 2013 at 4:44 AM](#)

Anonymous said...

nice

118

[April 25, 2013 at 4:45 AM](#)

Anonymous said...

I cannot access BEL in in DAL class... i.e . I cannot write
BEL b=new BEL() // Here BEL is not coming in intellisense ...

119

[April 27, 2013 at 5:27 AM](#)

[sundar neupane](#) said...

So good site for us..thanks this site..

120

[April 29, 2013 at 7:47 AM](#)

[Pradeep](#) said...

its very usefull to all

121

[May 7, 2013 at 12:26 AM](#)

Anonymous said...

Good one,Very Useful

122

[May 7, 2013 at 1:17 PM](#)

[Web Master](#) said...

Hi,

DO I need to create seperate classes for each table in BEL class ?

123

[May 8, 2013 at 3:17 AM](#)

[Imtiyaz Jamadar](#) said...

This is one of the best site I ever seen ..

124

[May 10, 2013 at 9:25 PM](#)

[Bhusan](#) said...

CODE FOR SAVING RADIO BUTTON (DAL,BAL & PRESENTATION LAYER)VALUE IN 3 TIER
KINDLY REPLY

125

[May 11, 2013 at 8:45 AM](#)

[jackson](#) said...

Thanks alot suresh... awesome explanation..

126

[May 15, 2013 at 9:37 AM](#)

[kirankumar B](#) said...

Really a Grate Tutorials for Freshers:)

127

[May 23, 2013 at 2:51 AM](#)

[Somdutt Pandey](#) said...

its really help full for those people who want to learn about 3-tire architectrethnak you very much sir....

128

[May 27, 2013 at 7:42 PM](#)

[praveen kumar](#) said...

129

thanks suresh.....

[May 29, 2013 at 5:18 AM](#)

Anonymous said...

130

very usefull to me

[June 6, 2013 at 2:40 AM](#)

Anonymous said...

131

Easy way to learn 3-tier arch for every programmerkeep it up suresh

[June 9, 2013 at 11:36 PM](#)



Rajesh G said...

132

Hi this post is good to understand but how to display in the gridview please help me out

[June 13, 2013 at 11:26 PM](#)

Anonymous said...

133

Marvelous example

[June 19, 2013 at 12:26 AM](#)

Anonymous said...

134

very useful....great work

[June 21, 2013 at 5:14 AM](#)



PriyaDharshini K said...

135

really nice website for dotnet developer..thanks for my career

[June 24, 2013 at 11:17 PM](#)



Saurabh said...

136

Hello Suresh,

Can you please explain, which reference is to be added to which layer.

I have added BLL reference in DLL and Application Layer. Now when am trying to add DLL reference to BLL it says A reference to DLL couldn't be added. Adding this project as a reference will cause circular dependency, and without adding DLL reference to BLL i guess we cant access the methods of DLL in BLL.

Please help.

Thanks,
Saurabh

[June 25, 2013 at 11:12 PM](#)

Anonymous said...

137

Thank you.... its really very useful...

[June 29, 2013 at 2:35 AM](#)

Vithal wadie said...

138

hi suresh you have done lots of good work,but according to my work experience this is not best example of 3 tier and also 3 layer architecture.
you have just added the three class files which can not be reused it again and again which is the primary goal of layered.
the coding flow is good but architecture is not good

[June 30, 2013 at 6:26 AM](#)

Anonymous said...

139

u are realy gr8!!!! keep it up n thnx

[July 2, 2013 at 4:09 AM](#)



surya ks said...

140

thanks...very useful...

[July 6, 2013 at 3:46 AM](#)

Anonymous said...

141

```
namespace DAL
{
    public class Employee
    {
        int employeeID;
        string lastName; // should be (20) chars only
        string firstName; // should be (10) chars only
        string title; // should be (30) chars only
        string address; // should be (60) chars only
        string city; // should be (15) chars only
        string region; // should be (15) chars only
        string postalCode; // should be (10) chars only
        string country; // should be (15) chars only
        string extension; // should be (4) chars only

        public int EmployeeID
        {
            get
            {
                return employeeID;
            }
            set
            {
                employeeID = value;
            }
        }

        public string LastName
        {
            get
            {
                return lastName;
            }
            set
            {
                lastName = value;
            }
        }

        public string FirstName
        {
            get
            {
                return firstName;
            }
            set
            {
                firstName = value;
            }
        }

        public string Title
        {
            get
            {
                return title;
            }
            set
            {
                title = value;
            }
        }

        public string Address
        {
            get
            {
                return address;
            }
            set
            {
                address = value;
            }
        }

        public string City
        {
            get
            {
```

```

return city;
}
set
{
city = value;
}
}

public string Region
{
get
{
return region;
}
set
{
region = value;
}
}

public string PostalCode
{
get
{
return postalCode;
}
set
{
postalCode = value;
}
}

public string Country
{
get
{
return country;
}
set
{
country = value;
}
}

public string Extension
{
get
{
return extension;
}
set
{
extension = value;
}
}
}

```

in this why u have used namespace DAL and how can i create in my code.

[July 23, 2013 at 4:31 AM](#)

Anonymous said...

Its really very helpful

142

[July 25, 2013 at 12:39 AM](#)

[Indrajeet Indru](#) said...

It's really very helpful. Thank you!

143










[July 28, 2013 at 11:52 PM](#)

Anonymous said...

Hello.. Its very helpful article. But, according to my understanding, Actually 3 tier architecture means it contains Application layer, Business Layer and Data Access Layer and each layer should be in separate machines. Actually the example above illustrates N-layer architecture.. Could u please elaborate the difference between n-tier and n-layer architecture in brief?

144

[July 31, 2013 at 7:36 AM](#)

	<u>suresh goud</u> said...	<u>145</u>
	thanks sir ...very useful	
	<u>August 8, 2013 at 12:42 AM</u>	
	<u>Sumit</u> said...	<u>146</u>
	One question.. As you are creating Object of DAL in BAL to get access of its method. Shouldn't we use dependency injection. Also we can Inherit BLL from BEL Please give your inputs	
	<u>August 9, 2013 at 10:21 AM</u>	
	<u>avinash kumar</u> said...	<u>147</u>
	Really very helpfull.....	
	<u>August 13, 2013 at 4:22 AM</u>	
	<u>Pulaha</u> said...	<u>148</u>
	Please help me .. i don't understand this line cmd.Parameters.Add("@Error",sqlDbType.char,500); sqlDbType can't exist in the current context. I also using namespace using System.Data; using System.Data.SqlClient; Yet error can seen..i don't understand.	
	<u>August 14, 2013 at 1:07 AM</u>	
	<u>Sajith Abraham</u> said...	<u>149</u>
	how to create a login page by giving the username and password and getting details of the registered member	
	<u>August 16, 2013 at 11:01 AM</u>	
	Anonymous said...	<u>150</u>
	Bro i understood all clearly.But my question is my web app contains more forms.so i need to connect all with DB.so Which is best method for each form one one DAL code file or one DAL code for all pages ? Please help me,,my id : pk.suhail47@gmail.com	
	<u>September 3, 2013 at 10:22 AM</u>	
	Anonymous said...	<u>151</u>
	thanks bro.....	
	<u>September 4, 2013 at 5:48 AM</u>	
	<u>Nisar Mohammed</u> said...	<u>152</u>
	Very nice thank u very much	
	<u>September 4, 2013 at 9:18 AM</u>	
	<u>mohd mazhar khan</u> said...	<u>153</u>
	Thank u...i got it. but i need login page using same 3 tier architech..	
	<u>September 6, 2013 at 1:04 AM</u>	
	<u>ACHUTA NANDA JENA</u> said...	<u>154</u>
	i will say best tute...for beginneers...	
	<u>September 11, 2013 at 3:08 AM</u>	
	<u>ketan italiya</u> said...	<u>155</u>
	very nice tutorial.....thanks..	
	<u>September 12, 2013 at 3:44 AM</u>	
	Anonymous said...	<u>156</u>

hi,
i am getting error in this bill code that "object reference set to an instance of object."NULL Reference Exception.
can anyone help in this issue...
thanks in advance

[September 19, 2013 at 3:33 AM](#)



yogeesh sp said...

157

both BEL and DTO is same?wer we BEL wether in business entity or wer?.,please execute same proj using store procedure.,,

[September 19, 2013 at 3:51 AM](#)

Anonymous said...

158

ya..i wrote code in stored procedure also...but in bill.cs its shows error near finally...while executig...

[September 19, 2013 at 9:21 PM](#)



Mothilal Aq said...

159

You are created a tightly coupled 3 tiered architecture. If you go to your deployment situation, it will be very hesitate. It mean every layer goes to separate server... you need to create a one service layer for communicate each layer, it will be change your entire architecture and the code.

If you have any other solution, just share your knowledge.

[October 5, 2013 at 11:54 PM](#)

Anonymous said...

160

Nice tutorial of 3-tier architecture for beginners.....

[October 9, 2013 at 3:20 AM](#)



Ranz Mh said...

161

which layer would JQuery fit into ? Thanks.

[October 16, 2013 at 8:59 AM](#)



Ekta Pandya said...

162

i also liked it...
Can u post similar thing for mvc (including MVC, MVC1,MVC2,MVC3 and MVC4)

[October 18, 2013 at 11:26 AM](#)



shakubar sathik said...

163

Hai ! This is awesome tutorial for us.....Thank you very boddy

[November 13, 2013 at 9:30 PM](#)



Ramesh Joshi said...

164

sir plz send ppt presentation ,how we can use web services in news website
sir send me ppt rameshjoshi375@gmail.com

[November 22, 2013 at 7:08 PM](#)



GMani said...

165

I believe, for 3tier we can host these layers in separate servers/processes. do you know how to do that?

[November 26, 2013 at 10:21 PM](#)

Anonymous said...

166

Thanks Suresh.

Look him, he has written really comprehensive article on 3 tier architecture -
<http://www.dotnetfunda.com/articles/show/2708/3-tier-architecture-in-aspnet-a-complete-article>

Thanks

[December 4, 2013 at 9:00 AM](#)



yogen chitte said...

167

excellent. but how to use a simple query instead of stored procedure. that is how to pass the query like select * from table do we need to create different methods for different entities? please reply soon.

[December 7, 2013 at 3:16 AM](#)

Niranjan 34892 said...

168

i got error like sp_userinformation has too many arguments specified....what does it mean?? can u plz tell me??

[December 24, 2013 at 3:55 AM](#)

Anonymous said...

169

one of the best sites

[January 8, 2014 at 1:55 AM](#)

Anonymous said...

170

niranjan :may be the parameters you are passing and parameters in the stored procedure is more compaired to the other one

[January 8, 2014 at 1:59 AM](#)

Abhishek Singh said...

171

```
USE [Techproperty]
GO
/***** Object: StoredProcedure [dbo].[BuilderProc] Script Date: 01/10/2014 16:49:31 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
ALTER proc [dbo].[BuilderProc]
@uid int=null,
@BuildersName varchar(100)=null,
@Phone varchar(100)=null,
@EmailId varchar(100)=null,
@City varchar(100)=null,
@Address varchar(100)=null,
@id int=null
as
begin
if(@uid=0)
Insert into Dbbuilder (BuildersName,Phone,EmailId,City,Address,CreateDate,Active)Values
(@BuildersName,@Phone,@EmailId,@City,@Address,GETDATE(),1)
end
if(@uid=1)
begin Update Dbbuilder set
BuildersName=@BuildersName,Phone=@Phone,EmailId=@EmailId,City=@City,Address=@Address,ModifiedDate=GETDATE()
where Active=1 and id=@id
end
if(@uid=2)
begin update Dbbuilder set Active=0 where id=@id
end
if(@uid=3)
begin Select id,BuildersName,Phone,EmailId,City,Address from Dbbuilder where Active=1
end
if(@uid=4)
begin Select id,BuildersName,Phone,EmailId,City,Address from Dbbuilder where Active=1 and id=@id
end

if(@uid=5)
begin select BuildersName from Dbbuilder where Active=1

end
.....this is procedure
```

[January 10, 2014 at 3:21 AM](#)



manish pardeshi said...

172

Please give back up of database also.

[January 13, 2014 at 1:45 AM](#)

Anonymous said...

173

Hi,
I have a problem with web.config file
My Connection String is stored in web.config file.Which is in UI Layer.Then How can to access my web.config file from Data Access Layer.Please tell your suggestion .Any help would be appreciated.Thanks

[January 19, 2014 at 8:14 AM](#)

Anonymous said...

174

Really very nice for freshers...

[January 19, 2014 at 11:08 PM](#)

Anonymous said...

175

it was really helpful very nice article to understand 3 tire best ... thank you so much for providing this article ... it really helped me alot

[January 23, 2014 at 3:40 AM](#)

Anonymous said...

176

Thank you Suresh...Good one

[February 3, 2014 at 11:04 PM](#)

 **Samir R. Bhogayta** said...

177

very nice explanation with example....thank you

[February 5, 2014 at 1:33 AM](#)



Veena DhanuGowda said...

178

Nlce one for beginners thank

[February 7, 2014 at 4:02 AM](#)

Anonymous said...

179

Very useful for understanding.Thank you so much.

[February 13, 2014 at 9:00 AM](#)

Anonymous said...

180

Value for time...!! Thankyou :)

[February 18, 2014 at 10:47 AM](#)

Anonymous said...

181

simply superb

[February 20, 2014 at 1:26 AM](#)

Anonymous said...

182

Nice artcel and also we expecting more interview related question and answers from you.

[February 21, 2014 at 11:18 PM](#)

Anonymous said...

183

Nice Article... i am really very thankful.

[February 23, 2014 at 3:39 AM](#)

 **Lingrai Gowda** said...

184

Hi suresh I create one website in 3 tire architecture when I publish with filesystem and upload in live it give error

Server Error in '/' Application.

Parser Error

Description: An error occurred during the parsing of a resource required to service this request. Please review the following specific parse error details and modify your source file appropriately.

Parser Error Message: Could not load type 'dbo.Admin.Index'.

Source Error:

Line 1: <%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Index.master.cs"
Inherits="dbo.Admin.Index" %>

[February 27, 2014 at 9:21 PM](#)

Anonymous said...

thanks a lot...

185

[March 17, 2014 at 8:21 PM](#)



Sumit Bura said...

I want to insert image using 3 layer Arch. but there is a err. saying that
Operand type clash: nvarchar is incompatible with image
wha is the reason

186

[March 19, 2014 at 11:30 PM](#)



Mahender Oddepalli said...

its very useful for beginners sir.....thank you

187

[April 28, 2014 at 11:55 PM](#)



zivad s.v said...

Thanks very much anonymous.... god bless you

188

[May 1, 2014 at 1:52 AM](#)

Anonymous said...

hello....sorry to say this is three layer not three tier application.....

189

[May 3, 2014 at 3:28 AM](#)



myselfankitha said...

Nice tutorial....

190

[May 7, 2014 at 11:06 PM](#)

Anonymous said...

Hivery gud work....very useful for beginner

191

[May 22, 2014 at 11:28 PM](#)



Bhuva Bhavesh said...

Thank you.....

192

[May 23, 2014 at 10:50 PM](#)



Reddappa Chinthamani said...

Very useful for me ---- Thank's a lot bro

193

[May 29, 2014 at 10:31 AM](#)



Chathilla Vikram said...

Helooooo...i want to know about the .Net for the interview perpose only..not programming totally.

194

[June 18, 2014 at 4:40 AM](#)

Anonymous said...

Thanks for stepwise explanation....Well designed...Great Article!!!

195

[August 26, 2014 at 5:00 AM](#)



kuldeep kumar said...

nice article...!!

196

[September 2, 2014 at 9:58 AM](#)

Anonymous said...

very useful.....

197

[October 7, 2014 at 2:54 AM](#)

Anonymous said...

its great for 3 layer

[198](#)

[November 17, 2014 at 8:56 PM](#)



[Bhagawat007](#) said...

Now understanding what exactly 3 tier concepts..Thank You...

[199](#)

[November 25, 2014 at 9:54 PM](#)

Anonymous said...

nice concept which is easy to understand

[200](#)

[December 15, 2014 at 6:51 AM](#)

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