

Common reasons of Object Reference not set to an instance of an object

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I have faced this exception several times and spent lot of time to solve this problem, Basically when I was beginner in programming.

I think this error comes in different conditions, but i would like to discuss the common reasons which i have faced during my programming life.

Scope Declaration:

When we used a variable which scope defined locally and used like global. Suppose we define a variable of type string in a event and use at different event. for eg.

```
public partial class Class1
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void Button1_Onclick(object sender, EventArgs e)
    {
        string strName=string.empty; //variable scope is local
    }

    protected void Button2_Onclick(object sender, EventArgs e)
    {
        strName="ABC"; //assigned the value in variable which scope does not exist here
    }
}
```

Adding the key value in web.config:

When we used a key value on the aspx page and value not defined at web.config, then it gives above error.

so that i would like to suggest programmers to when it gives error like that, then **make sure whether the key value which has used at aspx page is define in web.config.**

eg.

```
public partial class Class1
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void Button1_Onclick(object sender, EventArgs e)
    {
        string fromEmail = ConfigurationManager.AppSettings["fromEmail"].ToString(); //using key value but not added in web.configso it gives error
    }
}
```

so avoid this, you have to defined the key value in web.config like :

```
<appSettings>
<add key="fromEmail" value="abc@abc.com"/>
</appSettings>
```

Hope this will help...