ASP - 3

web.config file

web.config

- Configuration information about a web site is kept in an xml file named web.config found in each web site.
- machine.config sets policy for all web sites.

c:\windows\Microsoft.Net\Framework\v2\config

- web.config files alter/tweak policies set by machine.config.

web.config

- All information contained between

<configuration>   ← root tag

</configuration>

- Well formed XML
- Tags, sub-tags, attribute names use camelCasing
- Attribute values use PascalCasing

web.config

- Get a default web.config in your web site by running your web app in debug mode.
- Most common sections we work with:
- <appSettings>
- <connectionStrings>
- <authentication>

<appSettings>

- Contains custom application settings.
  – File paths
  – Web Service URLs
  – User Preferences
- Information stored as key / value pairs
- Use the ConfigurationManager class to fetch values.

<appSettings>

<appSettings>
<add key="mainfont" value="Verdana" />
<add key="Service" value="Serv1.asmx" />
</appSettings>

NameValueCollection

NameValueCollection appSettings =
ConfigurationManager.AppSettings;

- Fetches all key / value pairs as strings into NameValueCollection class.
- Each entry is a key/value pair
- System.Collections.Specialized namespace

NameValueCollection

- As elements are added to a **NameValueCollection**, the capacity is automatically increased as required through reallocation.
- Fetch using index

```
string value = appSettings[0]
```

- Fetch using Key

```
string value = appSettings["mainfont"]
```

NameValueCollection

- Iterate through a collection

```
foreach (string s in appSettings.AllKeys)
{
    here s is the key
    appSettings[s]  is the value
}
```

NameValueCollection

- Iterate through a collection

```
for (int i = 0; i < appSettings.Count; i++)
{
    string key = appSettings.GetKey(i);  // gets the key
    string value = appSettings.Get(i);  // gets the value
}
```

<connectionStrings>

- The **connectionStrings** element specifies a collection of database connection strings, as name/value pairs, for ASP.NET applications and features.

```
<connectionStrings>
    <add name="LocalSqlServer"
connectionString="server=localhost;uid=JoeR;
pwd=letmein;database=NorthWind"
providerName="System.Data.SqlClient"   />
</connectionStrings>
```

<connectionStrings>

```
ConnectionStringSettingsCollection connections =
ConfigurationManager.ConnectionStrings;

foreach (ConnectionStringSettings connection in
  connections)
{
  string name = connection.Name;
  string provider = connection.ProviderName;
  string connectionString = connection.ConnectionString;
}
```

\<connectionStrings\>

- Get connection string of your choice:

```
ConnectionStringSettingsCollections connections =
ConfigurationManager.ConnectionStrings;
ConnectionStringSettings settings =
    connections["LocalSqlServer"];
string connstr = settings.ConnectionString;
```