

Example : Queues

- In an MVC application(cloud service)

-- goto models

|

add a class

|

public class Msg

{

public int MsgId { get; set; }

public string Message { get; set; }

// other props

}

-
- Right click on BL folder and add a class called "BLQueue"

inside this class create methods to perform various queue operations.

public CloudQueue GetQueue()

{

CloudStorageAccount storageAccount =

CloudStorageAccount.Parse(

CloudConfigurationManager.GetSetting("scn"));

CloudQueueClient queueClient =

storageAccount.CreateCloudQueueClient();

CloudQueue queue = queueClient.GetQueueReference("NEFTQ");

queue.CreateIfNotExists();

return queue;

```
}
```

```
public void AddMessageToQueue(string msg)
{
    CloudQueue q = GetQueue();
    CloudQueueMessage m = new CloudQueueMessage(msg);
    q.AddMessage(m);
}
```

```
public IEnumerable<CloudQueueMessage> GetMessagesInQueue()
{
    CloudQueue q = GetQueue();
    var m = q.GetMessages(10);
    return m;
}
```

- Creating a Controller

right click on Controllers --> add controller say

"MesgController"

implements methods for read/writing

```
BLQueue q = new BLQueue();
```

```
// GET: Mesg
```

```
public ActionResult Index()
{
    var x = q.GetMessagesInQueue();
    return View(x);
}
```

```

public ActionResult PostMessage()
{
    return View();
}

public ContentResult UpdateMessage(Msg msg)
{
    JavaScriptSerializer ser =
        new JavaScriptSerializer();
    var res = ser.Serialize(msg);
    q.AddMessageToQueue(res);
    return Content("<h2>Message Added to Queue Successfully</h2>");
}

```

Views Code :

Index.cshtml

@model

IEnumerable<Microsoft.WindowsAzure.Storage.Queue.CloudQueueMessage>

@{

 ViewBag.Title = "Index";

}

<h2>Index</h2>

@foreach (var item in Model)

```

{
    System.Web.Script.Serialization.JavaScriptSerializer s = new
    System.Web.Script.Serialization.JavaScriptSerializer();

    var x=s.Deserialize<MVCBLOBS.Models.Msg>(item.AsString);

    <li>@x.MsgId - @x.Message</li>
}

```

PostMessage.cshtml

@model MVCBLOBS.Models.Msg

```

@{
    ViewBag.Title = "PostMessage";
}

```

<h2>PostMessage</h2>

@using (Html.BeginForm("UpdateMessage","Mesg"))

```

{
    @Html.AntiForgeryToken()

    <div class="form-horizontal">
        <h4>Msg</h4>
        <hr />
        @Html.ValidationSummary(true, "", new { @class = "text-danger" })
        <div class="form-group">
            @Html.LabelFor(model => model.Message, htmlAttributes: new {
                @class = "control-label col-md-2" })
            <div class="col-md-10">

```

```
@Html.EditorFor(model => model.Message, new { htmlAttributes =
new { @class = "form-control" } })

@Html.ValidationMessageFor(model => model.Message, "", new {

@class = "text-danger" })

</div>

</div>

<div class="form-group">
    <div class="col-md-offset-2 col-md-10">
        <input type="submit" value="Create" class="btn btn-default" />
    </div>
</div>
</div>
}

<div>
    @Html.ActionLink("Back to List", "Index")
</div>
```

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