

MASTER DETAILS

S.1=> Database Create & Model Binding

```
create database Nur
use Nur
create table Student
(
    Stu_id int Primary key identity(1,1),
    Stu_name varchar(50),
    Age int,
    DateOfBirth date,
    MorningShift bit,
    Picture varchar(max)
)
create table Subject
(
    Sub_id int Primary key identity(1,1),
    Sub_name varchar(50)
)
create table Admission
(
    Admi_id int Primary key identity(1,1),
    Stu_id int references Student(Stu_id),
    Sub_id int references Subject(Sub_id)
)
```

S.2=> Create Student Controller

```
using System.Data.Entity;

NurEntities db=new NurEntities();
// GET: Student
public ActionResult Index()
{
    return View();
}
```

S.3=> Create Index View Page

```
@model IEnumerable<WebApplication3.Models.Student>
@{
    ViewBag.Title = "Index";
}
```

```

}

<h2>Index</h2>
<section>
    @Html.ActionLink("Create", "Create")
    <table>
        <thead>
            <tr>
                <th>@Html.DisplayNameFor(a => a.Stu_name)</th>
                <th>@Html.DisplayNameFor(a => a.Age)</th>
                <th>@Html.DisplayNameFor(a => a.DateOfBirth)</th>
                <th>@Html.DisplayNameFor(a => a.MorningShift)</th>
                <th>@Html.DisplayNameFor(a => a.Picture)</th>
            </tr>
        </thead>
        @foreach (var s in Model)
        {
            <tr>
                <td>@Html.DisplayFor(m => s.Stu_name)</td>
                <td>@Html.DisplayFor(m => s.Age)</td>
                <td>@Html.DisplayFor(m => s.DateOfBirth)</td>
                <td>@Html.DisplayFor(m => s.MorningShift)</td>
                <td></td>
            </tr>
            <tr>
                <td colspan="6">
                    <table>
                        <thead>
                            <tr>
                                <th>@Html.Label("Student id")</th>
                                <th>@Html.Label("Student name")</th>
                            </tr>
                        </thead>
                        <tbody>
                            @foreach (var sub in s.Admissions)
                            {
                                <tr>
                                    <td>@Html.DisplayFor(m =>
sub.Subject.Sub_id)</td>
                                    <td>@Html.DisplayFor(m =>
sub.Subject.Sub_name)</td>
                                </tr>
                            }
                        </tbody>
                    </table>
                </td>
            </tr>
            <tr>
                <td colspan="12">
                    @Html.ActionLink("Edit", "Edit", new { id = s.Stu_id })
                    @Html.ActionLink("Delete", "Delete", new { id = s.Stu_id })
                </td>
            </tr>
        }
    </table>

```

</section>

S.4=> Write Student Controller Code

```
var stu=db.Students.  
    Include(a=>a.Admissions.  
        Select(s=>s.Subject)).  
    OrderByDescending(si=>si.Stu_id).ToList();  
return View(stu);
```

S.5=> Create View Model Folder and ViewModel Class & Code

this code copy from Student.cs

Studentvm

```
public Student()  
{  
    this.Admissions = new HashSet<Admission>();  
}  
  
public int Stu_id { get; set; }  
public string Stu_name { get; set; }  
public Nullable<int> Age { get; set; }  
public Nullable<System.DateTime> DateOfBirth { get; set; }  
public Nullable<bool> MorningShift { get; set; }  
public string Picture { get; set; }  
public HttpPostedFileBase PictureFile { get; set; }  
  
[System.Diagnostics.CodeAnalysis.SuppressMessage("Microsoft.Usage",  
    "CA2227:CollectionPropertiesShouldBeReadOnly")]  
public virtual ICollection<Admission> Admissions { get; set; }
```

S.6=> Create Action

```
[HttpGet]  
public ActionResult Create()  
{  
    return View();  
}
```

S.6=> CreatePage Code

```
@model WebApplication3.VM.Studentvm  
@{  
    ViewBag.Title = "Create";
```

```
}
```

```
<h2>Create</h2>
```

```
@using (Html.BeginForm("Create", "Student", FormMethod.Post, new  
{ enctype="multipart/form-data" }))
```

```
{
```

```
    <div>
```

```
        <div>
```

```
            @Html.LabelFor(a => a.Stu_name)
```

```
            <div>@Html.TextBoxFor(b => b.Stu_name, new
```

```
{ type = "text" })</div>
```

```
        </div>
```

```
        <div>
```

```
            @Html.LabelFor(a => a.Age)
```

```
            <div>@Html.TextBoxFor(b => b.Age, new {
```

```
type = "number" })</div>
```

```
        </div>
```

```
        <div>
```

```
            @Html.LabelFor(a => a.DateOfBirth)
```

```
            <div>@Html.TextBoxFor(b => b.DateOfBirth,
```

```
new { type = "date" })</div>
```

```
        </div>
```

```
        <div>
```

```
            @Html.LabelFor(a => a.MorningShift)
```

```
            <div>@Html.CheckBox("MorningShift")</div>
```

```
        </div>
```

```
        <div>
```

```
            @Html.LabelFor(a => a.Picture)
```

```
            <div>@Html.TextBoxFor(b => b.PictureFile,
```

```
new { type = "file" })</div>
```

```
        </div>
```

```
        <div>
```

```
            <div>@Html.ActionLink("Add More", "",
```

```
null, new { id = "addmore" })</div>
```

```
        </div>
```

```
        <div id="con">@Html.Action("AddNewSubject",
```

```
"Student")</div>
```

```
        <div><input type="submit"
```

```
value="Create"/></div>
```

```
    </div>
```

```
}
```

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

```
"Index")</div>
```

S.7=> CreateAction Code

```

public ActionResult Create(Student Studentvm, int[] sub_id)
{
    if (ModelState.IsValid)
    {
        var student = new Student()
        {
            Stu_name = Studentvm.Stu_name,
            Age = Studentvm.Age,
            DateOfBirth = Studentvm.DateOfBirth,
            MorningShift = Studentvm.MorningShift
        };
        HttpPostedFileBase file = Studentvm.PictureFile;
        if (file != null)
        {
            string filename = Path.Combine("/Images/" +
file.FileName);
            file.SaveAs(Server.MapPath(filename));
            student.Picture = filename;
        }
        foreach (var s_id in sub_id)
        {
            var id = db.Subjects.FirstOrDefault(a => a.Sub_id ==
s_id);
            if (id != null)
            {
                var admission = new Admission()
                {
                    Student = student,
                    Stu_id = student.Stu_id,
                    Sub_id = id.Sub_id
                };
                db.Admissions.Add(admission);
            }
        }
        db.SaveChanges();
        return RedirectToAction("Index");
    }
    return View(Studentvm);
}

```

S.8=> Create AddNewSubject PartialView Code

```

public ActionResult AddNewSubject(int ? id)
{
    ViewBag.subject=new

```

```

        SelectList(db.Subjects.ToList(),
            "Sub_id", "Sub_name", id??0);
    return PartialView("_AddNewSubject");
}

```

S.9=> Create _AddNewSubject PartialView

```

@model WebApplication3.Models.Subject
<div id="rc">
    <div>
        @Html.DropDownListFor(s=>s.Sub_id, ViewBag.subject as
        SelectList, "---Select Subject---", new {@class="form-control"})
    </div>
    <div>
        <button type="button" id="remove" class="btn btn-
        danger">Remove</button>
    </div>
</div>

```

S.10=> Ajax Code Write in _Layout.cshtml

```

<script>
    $(document).ready(() => {
        $("#addmore").click((e) => {
            e.preventDefault();
            $.ajax({
                url: "/Student/AddNewSubject",
                type: "get",
                success: (d) => {
                    $("#con").append(d);
                }
            });
        });
        $(document).on("click", "#remove", (e) => {
            e.preventDefault();
            $(e.currentTarget).closest("#rc").remove();
        })
    })
</script>

```

S.11=> Some change in Student.cs code

```

using System.Web;

```

```
public HttpPostedFileBase PictureFile { get; set; }
```