

# E.A.T

## Educational Administration Tool

### Purpose

To help educational facilities create, track, manage their  
Students, Courses, and Enrollments

### Tech Overview

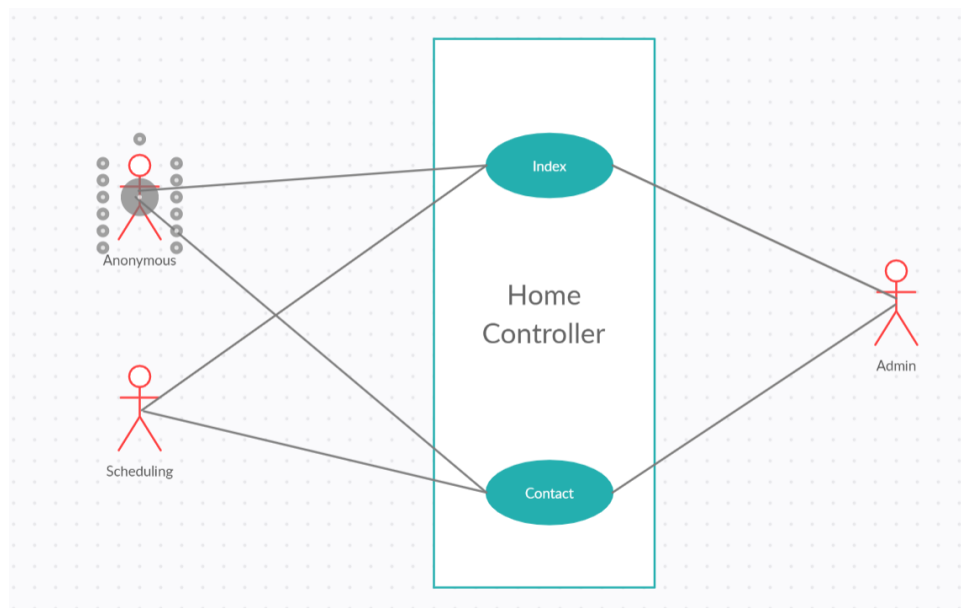
Utilized MVC, C#, HTML, CSS, JavaScript, SQL. Made in .NET framework using Visual Studio and SSMS. Used GitHub for Source Control. Made project using Extreme Coding (Pair Programming)

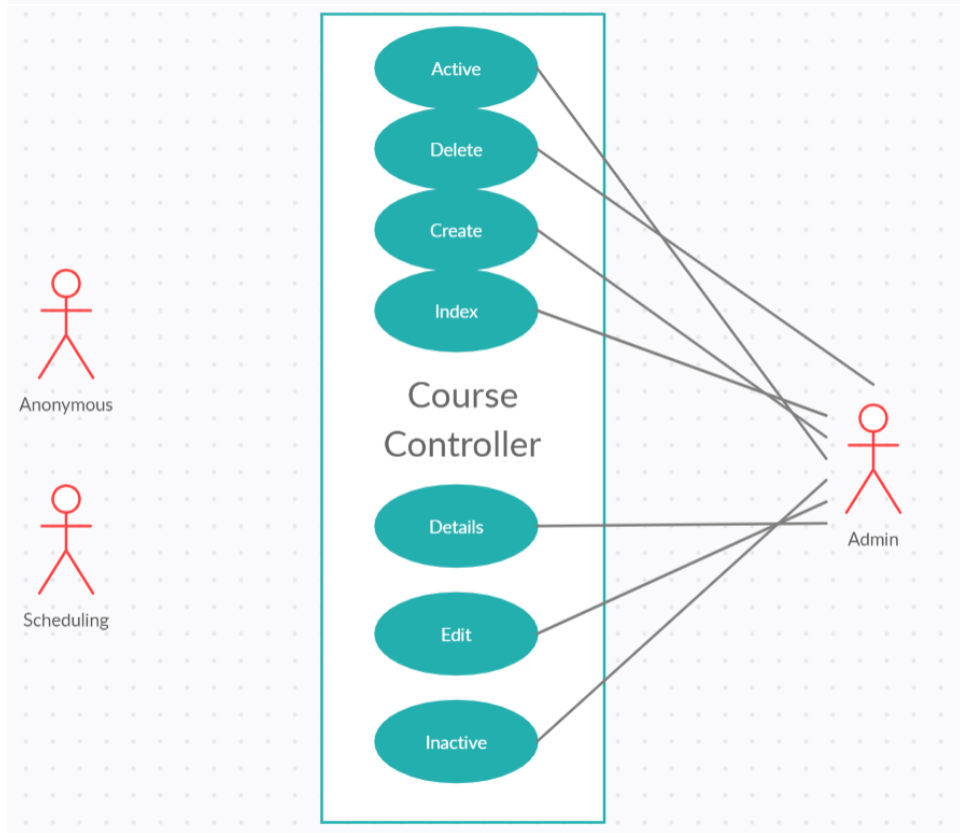
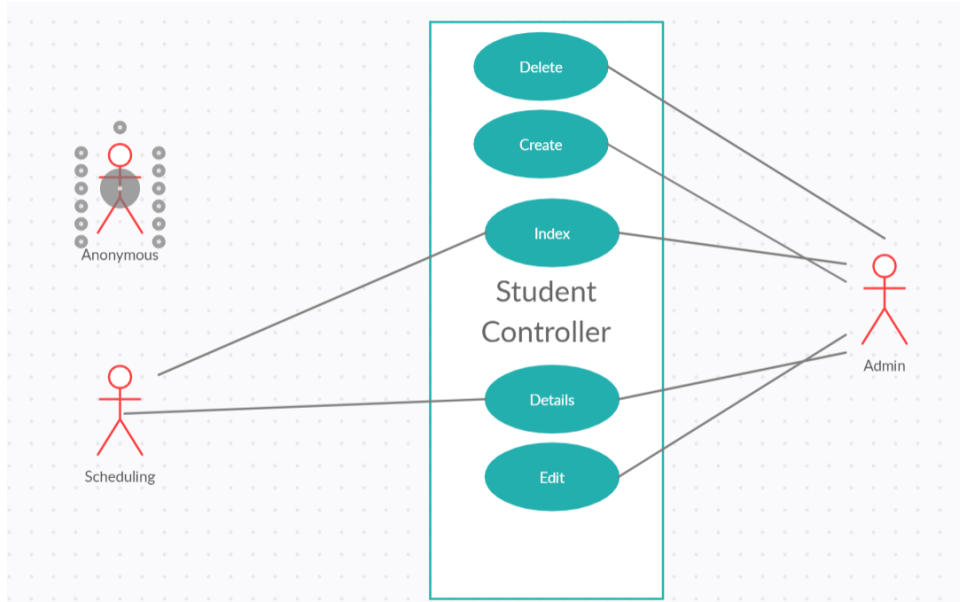
### Roles and Explanations

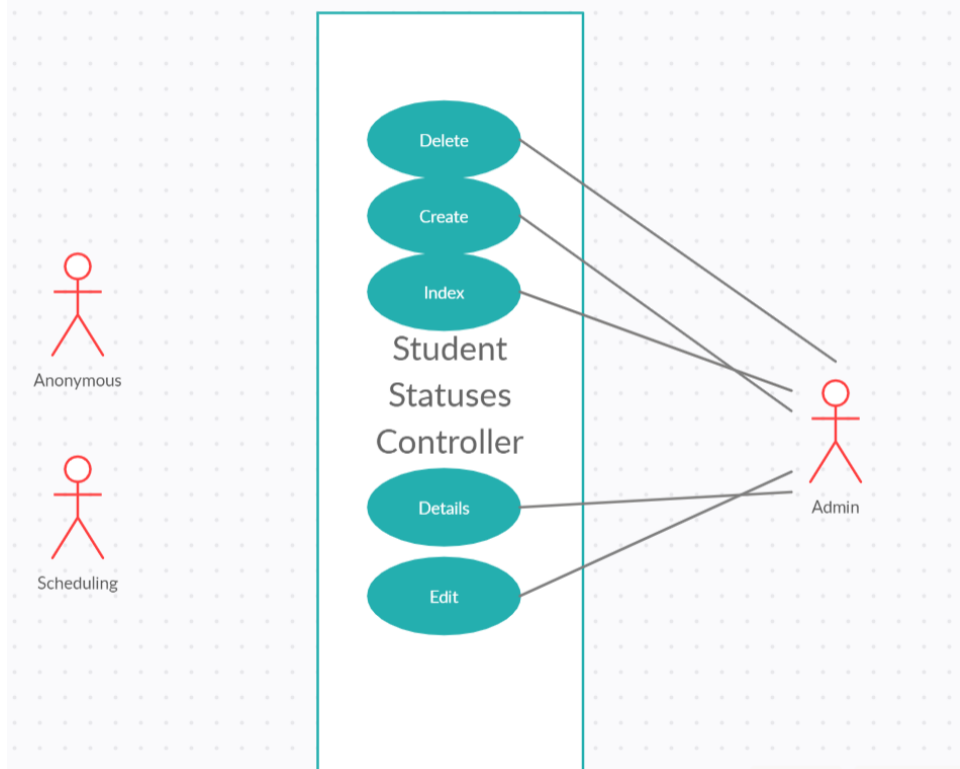
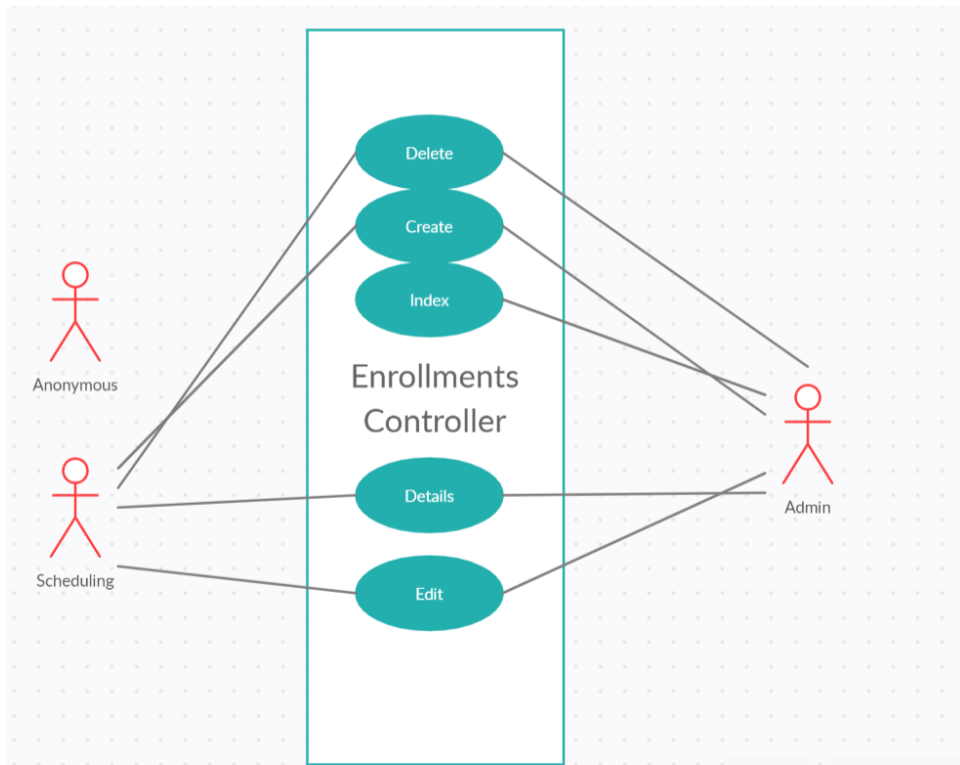
Anonymous – Represents the generic user only has access to the Home page and Contact page

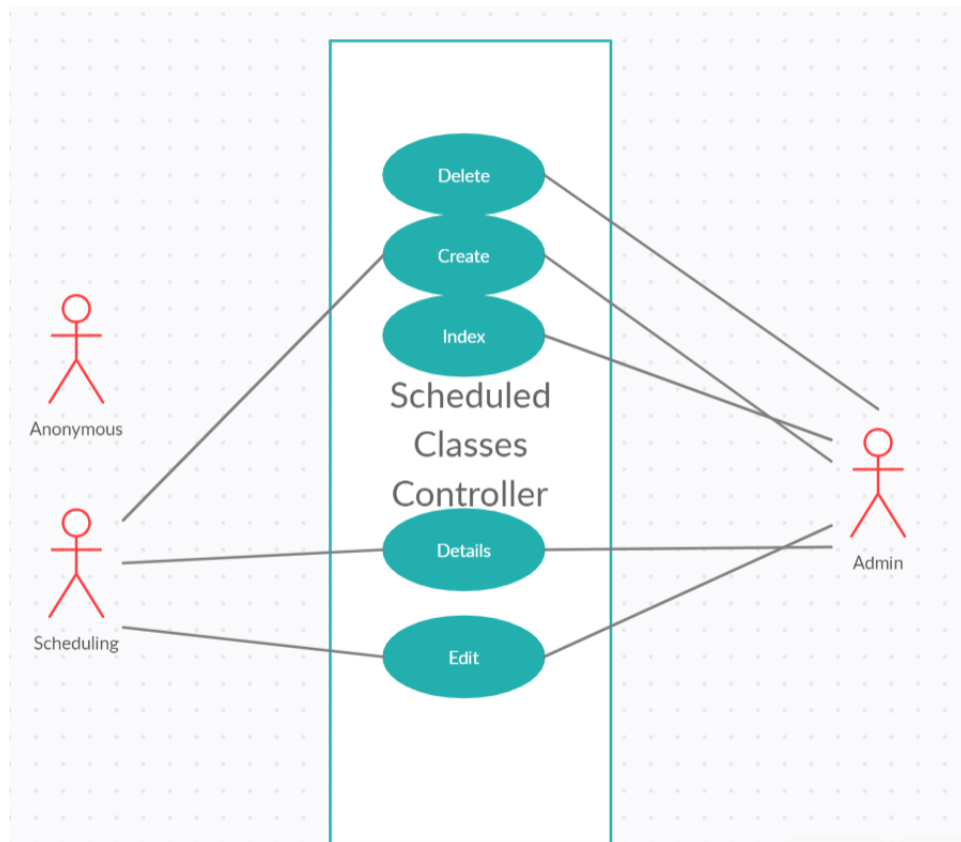
Scheduling – Represents an employee who has been given access to certain CRUD functionality and views.

Admin – Given access to ALL CRUD functionality and views

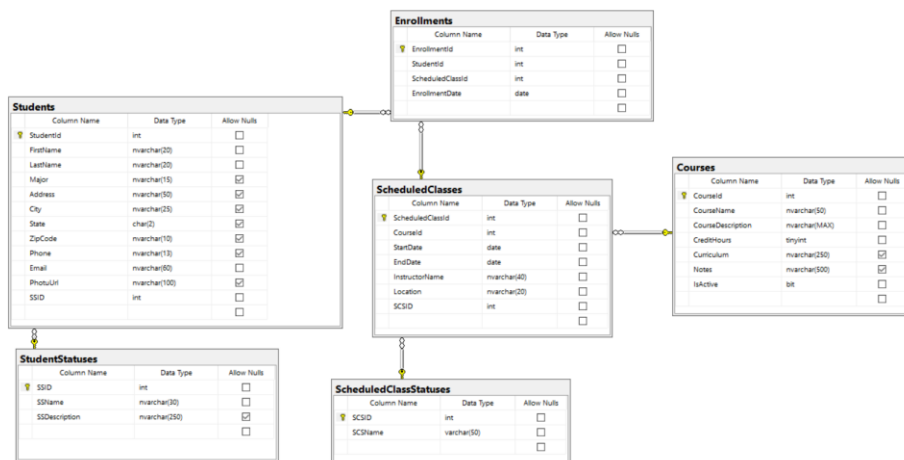








## Workflow Overview



Database Created in SSMS to meet client needs

```

<ul>
  <li class="active"><a href="index.html">Home</a></li>
  <li><a href="about.html">About</a></li>
  <li><a href="pricing.html">Pricing</a></li>
  @if (User.IsInRole("Admin") && Request.IsAuthenticated)
  {
    <li class="has-dropdown">
      <a href="blog.html">Admin Features</a>
      <ul class="dropdown">
        <li><a href=@Url.Action("Index", "Cours")>Courses</a></li>
        <li><a href=@Url.Action("Index", "Enrollments")>Enrollments</a></li>
        <li><a href=@Url.Action("Index", "ScheduledClasses")>Scheduled Classes</a></li>
        <li><a href=@Url.Action("Index", "Students")>Students</a></li>
        <li><a href=@Url.Action("Index", "StudentStatus")>Student Statuses</a></li>
      </ul>
    </li>
  }
  else if (User.IsInRole("Scheduling") && Request.IsAuthenticated)
  {
    <li class="has-dropdown">
      <a href="blog.html">Scheduling Features</a>
      <ul class="dropdown">
        <li><a href=@Url.Action("Index", "Enrollments")>Enrollments</a></li>
        <li><a href=@Url.Action("Index", "ScheduledClasses")>Scheduled Classes</a></li>
        <li><a href=@Url.Action("Index", "Students")>Students</a></li>
      </ul>
    </li>
  }
}

```

Functioning nav bar with Role based access

```

Delete.cshtml  Inactive.cshtml  Index.cshtml  ScheduledClassesController.cs
EAT.MVC.UI
122  if (scheduledClass == null)
123  {
124      return HttpNotFound();
125  }
126  return View(scheduledClass);
127  }
128
129  // POST: ScheduledClasses/Delete/5
130  [HttpPost, ActionName("Delete")]
131  [ValidateAntiForgeryToken]
132  [Authorize(Roles = "Admin")]
133  public ActionResult DeleteConfirmed(int id)
134  {
135      ScheduledClass scheduledClass = db.ScheduledClasses.Find(id);
136      if (scheduledClass.SCSID != 4)
137      {
138          scheduledClass.SCSID = 4;
139      }
140      else if (scheduledClass.SCSID == 4)
141      {
142          scheduledClass.SCSID = 1;
143      }
144      //db.ScheduledClasses.Remove(scheduledClass);
145      db.SaveChanges();
146      return RedirectToAction("Index");
147  }
148
149  protected override void Dispose(bool disposing)
150  {
151      if (disposing)
152      {

```

Soft Delete for scheduled classes (Active to Inactive and vice versa)

```

<td>
    @Html.DisplayFor(modelItem => item.StudentStatus.SSName)
</td>
<td>
    @Html.ActionLink("Details", "Details", new { id = item.StudentId }) |
    @if (User.IsInRole("Admin"))
    {
        @Html.ActionLink("Edit", "Edit", new { id = item.StudentId })
        @Html.ActionLink("Delete", "Delete", new { id = item.StudentId })
    }
</td>

```

Lockdown Certain actions in the Index Views based on Roles

```

[MetadataType(typeof(ScheduledClassMetadata))]
public partial class ScheduledClass
{
    public string ClassInfo { get { return $"{StartDate} {Cours.CourseName} {Location}"; } }
}

```

Custom property Metadata to display Course info

```

student, HttpPostedFileBase studentImage)
{
    if (ModelState.IsValid)
    {
        #region Image upload
        string file = "DefaultImage.jpg";
        if (studentImage != null)
        {
            file = studentImage.FileName;
            string ext = file.Substring(file.LastIndexOf('.'));
            string[] goodExts = { ".jpeg", ".jpg", ".png", ".gif" };
            if (goodExts.Contains(ext))
            {
                if (studentImage.ContentLength <= 4194304)
                {
                    file = Guid.NewGuid() + ext;
                    string savePath = Server.MapPath("~/Content/images/StudentPhotos/");
                    Image convertedImage = Image.FromStream(studentImage.InputStream);
                    int maxImageSize = 500;
                    int maxThumbSize = 100;
                    ImageService.ResizeImage(savePath, file, convertedImage, maxImageSize, maxThumbSize);
                }
            }
        }
        student.PhotoUrl = file;
    }
}

```

Image upload functionality and making a thumbnail of uploaded image

```

[Authorize(Roles = "Admin")]
public ActionResult Inactive()
{
    return View(db.Courses.Where(c => !c.IsActive).ToList());
}

```

Returning certain Courses based on if the course is Active or not

```

namespace EAT.MVC.UI.Controllers
{
    public class StudentsController : Controller
    {
        private SATEntities db = new SATEntities();

        // GET: Students
        [Authorize(Roles = "Admin, Scheduling")]
        public ActionResult Index()
        {
            var students = db.Students.Include(s => s.StudentStatus);
            return View(students.ToList());
        }

        // GET: Students/Details/5
        [Authorize(Roles = "Admin, Scheduling")]
        public ActionResult Details(int? id)
        {
            if (id == null)
            {
                return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
            }
            Student student = db.Students.Find(id);
            if (student == null)
            {
                return HttpNotFound();
            }
            return View(student);
        }
    }
}

```

Locking down CRUD functionality based on user role in the controller

```

<li style="color:black">
    Hello @User.Identity.GetUserName()!
</li>
<li><a href="javascript:document.getElementById('logoutForm').submit()">Log off</a></li>

```

Custom Message shown while logged in



```
bundles.Add(new ScriptBundle("~/bundles/jquery").Include(
    "~/Scripts/jquery-{version}.js",
    "~/Content/js/jquery.min.js",
    "~/Content/js/jquery.easing.1.3.js",
    "~/Content/js/bootstrap.min.js",
    "~/Content/js/jquery.waypoints.min.js",
    "~/Content/js/jquery.stellar.min.js",
    "~/Content/js/owl.carousel.min.js",
    "~/Content/js/jquery.flexslider-min.js",
    "~/Content/js/jquery.countTo.js",
    "~/Content/js/jquery.magnific-popup.min.js",
    "~/Content/js/magnific-popup-options.js",
    "~/Content/js/simplyCountdown.js",
    "~/Content/js/main.js"
));
```

```
bundles.Add(new StyleBundle("~/Content/css").Include(
    "~/Content/bootstrap.css",
    "~/Content/site.css",
    "~/Content/css/animate.css",
    "~/Content/css/icomoon.css",
    "~/Content/css/bootstrap.css",
    "~/Content/css/magnific-popup.css",
    "~/Content/css/owl.carousel.min.css",
    "~/Content/css/owl.theme.default.min.css",
    "~/Content/css/flexslider.css",
    "~/Content/css/pricing.css",
    "~/Content/css/style.css"
));
```

Bundled both the CSS and js to reduce load time

```

</div>
</div>
<div class="row">
  <div class="row">...</div>
  <div class="col-md-6 animate-box">
    <div class="course">
      
      @*<a href="#" class="course-img" style="background-image: url(../../
Content/images/facepainting10.8.png);">
    </a>*@
      <div class="desc">
        <h3><a href="#">Face Painting</a></h3>
        <p>A family favorite, everyone enjoys a great face painting! We use
organic materials so as not to harm our subjects. Brush techniques and
learning to get small children to sit still are skills you will take away
from this class.</p>
        <span><a href=@Url.Action("Index", "Cours") class="btn btn-primary
btn-sm btn-course">Take A Course</a></span>
      </div>
    </div>
  </div>
  <div class="col-md-6 animate-box">
    <div class="course">
      
      @*<a href="#" class="course-img" style="background-image: url(../../

```

Created own images and added styling to format them on the Home page

```

<dd>
  
</dd>

```

Created to show Student picture in the details