Documentation for Scheduling Administration Tool Application

Team Members: Mindi Ford, Michael Tullis and Justin Vignone

Welcome to the Scheduled Administration Tool ("S.A.T."). As a team, we were tasked with creating a site that a school may use for scheduling classes. This web application is used to manage Students, Student Statuses, Courses, Scheduled Classes, and Enrollments. Depending on your Identity role, you may be able to view, create, update, or remove these items.

This application uses:

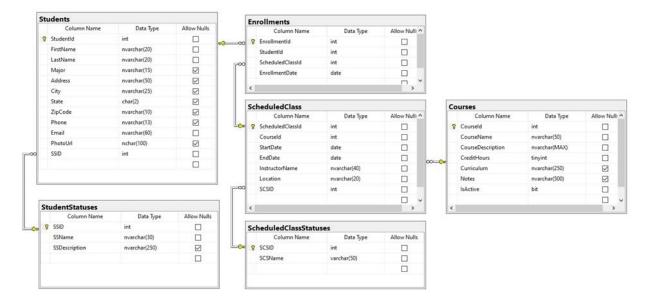
- HTML and CSS for structure and style
- Javascript for front-end logic
- MS (Microsoft) SQL Server data structure to manage and persist the data
- Identity Framework to manage Users/Roles
- Model-View-Controller (MVC) design pattern architecture to manage the building of the site

The following roles will be used in this application:

- Anonymous (unauthenticated) users will be able to view the following information:
 - Base Pages (home, contact)
- Users with the role of Scheduling will be able to view the following information:
 - Base Pages (home, contact)
 - Students (index, details)
 - Current Scheduled Classes (NO delete)
 - Enrollments (FULL CRUD)
- Users with the role of Administrator will be able to view the following information:
 - Base Pages (home, contact)
 - Courses (FULL CRUD)
 - Student Statuses (FULL CRUD)
 - Enrollments (FULL CRUD)
 - Scheduled Classes (FULL CRUD)
 - Students (FULL CRUD)

Below, we have provided documentation with photos as we build out this site.

Database Creation:



Logo Design:



Scaffolding Controllers with Views to display information in database

```
@model | IEnumerable<SAT.DATA.EF.ScheduledClass>
                                                                                                A # - 6 - 5 C # B /-
                                                                                                                                       ρ.
 @{
                                                                                           Solution 'SAT' (2 projects)
                                                                                           ▶ Solution SAT (2 p

▶ Solution Items

■ C SAT.DATA.EF
       ViewBag.Title = "Scheduled Classes";
 3
                                                                                              ▶ ■■ References
 <h2>@ViewBag.Title</h2>
                                                                                              ▲ Metadata

▶ a C<sup>a</sup> SATMetadata.cs
                                                                                              obj
       @Html.ActionLink("Create New", "Create")
                                                                                           #¥D packages.config

Þ ■ ♣F SAT.edmx

■ ● ■ SAT.ULMVC
p
                                                                                             © Connected Services

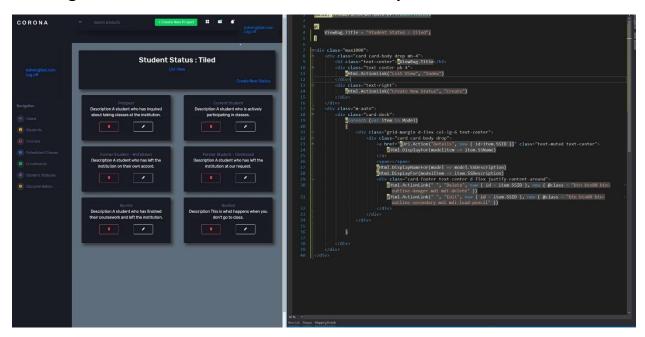
▷ ■ ▶ Properties

▷ ■ References
                                                                                               _Archive
App_Data
                  @Html.DisplayNameFor(model => model.StartDate)
                                                                                                App_Start
configs
Content
            @*
                 @Html.DisplayNameFor(model => model.EndDate)
                                                                                               ▶ a C# CoursesController.cs
                                                                                                D ■ C* HomeController.cs
            *@
                                                                                                D = C* RolesAdminController.cs
                  @Html.DisplayNameFor(model => model.Location)
                                                                                                ▶ a C# StudentStatusController.cs
                                                                                                D @ C* UserAdminController.cs
                                                                                                Models
                  @Html.DisplayNameFor(model => model.Course.CourseNa
                                                                                                Scripts
                                                                                                Views
Account
Courses
            Enrollments
Home
                  @Html.DisplayNameFor(model => model.ScheduledClassS
                                                                                                  Manage
RolesAdmin
            Gif (User.IsInRole("Admin"))
{
                                                                                                  ScheduledClasses
                                                                                                   Delete.cshtml
            }
                                                                                                   €001 Edit.cshtml
                                                                                                @foreach (var item in Model) {
                                                                                                   at@∃ Delete.cshtml
                                                                                                   ation Edit.cshtml
                 @Html.DisplayFor(modelItem => item.StartDate)
                                                                                                 StudentStatus
UsersAdmin
            ■(@) _ViewStart.cshtml
■♥] Web.config
                 @Html.DisplayFor(modelItem => item.EndDate)
                                                                                             favicon.ico
```

Implementing soft delete functionality with a dropdown menu to change class status.

```
| Detection | Note Colored | Note State Classes Controllers | State |
```

Creating alternate tiled view to customize user experience.



Implementing file upload utility.

```
// To protect from overposting attacks, please enable the specific properties you want to bind to, for // more details see <a href="https://go.microsoft.com/fwlink/?LinkId=317598">https://go.microsoft.com/fwlink/?LinkId=317598</a>. [Authorize(Roles = "Admin")]
[HttpPost]
[Hatchoolie (Notes - Admin )]
[Hatchoolie (Hatchoolie - Admin )]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include = "StudentId,FirstName,LastName,Major,Address,City,State,ZipCode,Phone,Email,PhotoUrl,SSID")] Student
| student, HttpPostedFileBase studentPhoto)
      if (ModelState.IsValid)
           #region File Upload
           string imageName = "noImage.jpg";
           if (studentPhoto != null)
                imageName = studentPhoto.FileName;
                string ext = imageName.Substring(imageName.LastIndexOf("."));
                string[] goodExts = new string[] { ".jpeg", ".jpg", ".png", ".gif" };
                if (goodExts.Contains(ext.ToLower()) && studentPhoto.ContentLength <= 4194304)</pre>
                      imageName = Guid.NewGuid() + ext;
                     #region Resize Image Functionality
string savePath = Server.MapPath("~/Content/assets/images/students/");
                      Image convertedImage = Image.FromStream(studentPhoto.InputStream);
                      int maxImageSize = 300:
                      int maxThumbSize = 65;
                      ImageUtility.ResizeImage(savePath, imageName, convertedImage, maxImageSize, maxThumbSize);
                      #endregion
           student.PhotoUrl = imageName;
```

Below, we have our UML Use Case Diagrams. These detail the different roles and the functionality each has access to.

