

# The Blurple Fishbirds

Documenting the creation  
of a full stack application  
with .NET Core

# Setting up

- Created a repo on Github.
- Updated Gitignore
- Added project with .Net to the cloned path
- Created Kanban board using Trello
  - Loaded requirements as cards

main

14 branches 0 tags

Go to file

Add file

<> Code



### Your main branch isn't protected

Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)

Protect this branch



J-Cundiff added more notes

fc203e3 45 minutes ago 40 commits



SAT\_Team\_Development

added more notes

45 minutes ago



.gitignore

updated gitignore

3 days ago



README.md

Initial commit

3 days ago

README.md



# SAT-Team-Project

In this project the Centriq class was split into groups of two people. We were tasked with creating a Scheduling Administration Tool with a limited amount of time available for work.

## About



In this project the Centriq class was split into groups of two people. We were tasked with creating a Scheduling Administration Tool with a limited amount of time available for work.

Readme

0 stars

1 watching

0 forks

## Releases

No releases published

[Create a new release](#)

## Packages

No packages published

[Publish your first package](#)

## Contributors 3



BricePaquette



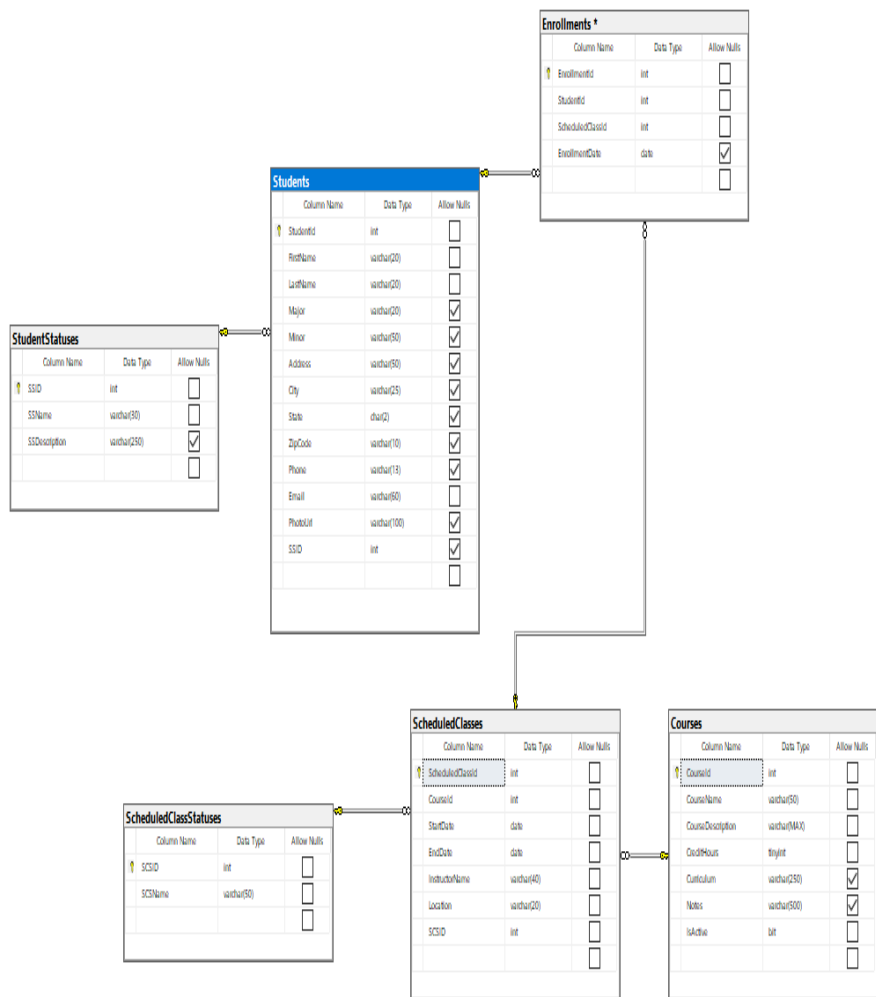
J-Cundiff



NoelEvan321 Evan

# Dummy Data and prep

- Created and scripted the database
- Added records to each table per schema using SSMS.



NoelEvan321 Merge branch 'main' of <https://github.com/NoelEvan321/SAT-Team-Project>

583cd3a 18 minut

..

**SAT\_Team\_Development.DATA.EF**

Scaffolded all Controllers and Views for the .DATA.EF Model classes

**SAT\_Team\_Development.UI.MVC**

Merge branch 'main' of <https://github.com/NoelEvan321/SAT-Team-Project>

**SAT\_Team\_Development.sln**

Scaffolded Database Context and Models in the data layer

SAT Scheduling Tool

Workspace visible

Board

Power-Ups

Automation

Filter

EN B JC

Share

Backlog

...

Impliment Identity Samples

Update Navigation

Make Roles

Lock Down Controllers

Build Contact Form

Image Upload functionality

Tiled View - Cards

Style

Table View - Datatables.net

+ Add a card

In Progress

...

Convert Template

0/7

Layout Updates

B

+ Add a card

Testing

...

+ Add a card

Done

...

+ Add another list

Scaffold All controllers

B

Metadata

JC

Scaffold Db Context

B JC

GitHub repo

B EN

Theme

B JC 3

Add mockup data

B JC

Create Database

EN

Find Template

B JC

+ Add a card

# MVC and EF

- Scaffolded DB context
- Brought in data into the data layer
- Created metadata and partial classes
- Scaffolded all controllers and associated views

Solution Explorer

Search Solution Explorer (Ctrl-) | SAT\_Team\_Development (2 of 2 proj) | SAT\_Team\_Development.DATAEF | Dependencies | Metadata | Partial.cs | Models | Class.cs | SAT\_Team\_Development.UIMVC

SAT\_Team\_Development.DATAEF | SAT\_Team\_Development.DATAEF.Metadata.CourseMetadata | CreditHours

10 {  
11 1 reference  
12 public class CourseMetadata  
13 {  
14 [Required(ErrorMessage = "Course Name is required")]  
15 [StringLength(50, ErrorMessage = "Max 50 characters")]  
16 [Display(Name = "Course")]  
17 0 references  
18 public string CourseName { get; set; } = null!;  
19  
20 [Required(ErrorMessage = "Course description is required")]  
21 [Display(Name = "Course Description")]  
22 0 references  
23 public string CourseDescription { get; set; } = null!;  
24  
25 [Required(ErrorMessage = "Credit hours is required")]  
26 [Range(0, byte.MaxValue, ErrorMessage = "Thats really large, whats wrong with you?")]  
27 [Display(Name = "Credit Hours")]  
28 0 references  
29 public byte CreditHours { get; set; }  
30  
31 [StringLength(250, ErrorMessage = "Max 250 characters")]  
32 0 references  
33 public string? Curriculum { get; set; }  
34  
35 [StringLength(500, ErrorMessage = "Max 500 characters")]  
36 0 references  
37 public string? Notes { get; set; }  
38  
39 [Required(ErrorMessage = "IsActive is required")]  
40 [Display(Name = "Active Course?")]  
41 0 references  
42 public bool IsActive { get; set; }  
43 }  
44  
45 1 reference  
46 public class EnrollmentMetadata  
47 {  
48 [Required(ErrorMessage = "Student Id is required")]  
49 [Display(Name = "Student")]  
50 0 references  
51 public int StudentId { get; set; }  
52  
53 [Required(ErrorMessage = "Scheduled Class Id is required")]  
54 [Display(Name = "Scheduled Class Id")]  
55 0 references  
56 public int ScheduledClassId { get; set; }  
57  
58 [Required(ErrorMessage = "Enrollment date is required")]  
59 [Display(Name = "Enrollment Date")]  
60 [DataType(DataType.Date)]  
61 0 references  
62 }

Scaffold All controllers

in list [Done](#)

Members

B

+

Notifications

👁

Watch

Description

Edit

Brice was driving. JD and Evan were navigating.  
Generated controllers with Entity Framework.

Activity

Show details

Suggested

⚙

👤

Join

Add to card

👤

Members

🏷

Labels

☑

Checklist

🕒

Dates



# \_Layout

- Updated all links in the shared \_Layout file.
- Structured header and sidebar
- Established 'directory' for the application
- Cleaned vocabulary

```
7 <title>Dashboard - NiceAdmin Bootstrap Template</title>
8 <meta content="" name="description">
9 <meta content="" name="keywords">
10
11 <!-- Favicons -->
12 <link href="/assets/img/favicon.png" rel="icon">
13 <link href="/assets/img/apple-touch-icon.png" rel="apple-touch-icon">
14
15 <!-- Google Fonts -->
16 <link href="https://fonts.gstatic.com" rel="preconnect">
17 <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Nunito:300,300i,400,400i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
18
19 <!-- Vendor CSS Files -->
20 <link href="/assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
21 <link href="/assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
22 <link href="/assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
23 <link href="/assets/vendor/quill/quill.snow.css" rel="stylesheet">
24 <link href="/assets/vendor/quill/quill.bubble.css" rel="stylesheet">
25 <link href="/assets/vendor/remixicon/remixicon.css" rel="stylesheet">
26 <link href="/assets/vendor/simple-datatables/style.css" rel="stylesheet">
27
28 <!-- Template Main CSS File -->
29 <link href="/assets/css/style.css" rel="stylesheet">
30
31 <!-- ===== Header ===== -->
32 <!-- ===== Sidebar ===== -->
33 <!-- ===== Footer ===== -->
34 <!-- ===== Main Content ===== -->
35 <!-- ===== Footer ===== -->
36 <!-- ===== Footer ===== -->
37 </body>
38 </html>
```



## Layout Updates

in list Testing ©

Members



Notifications



Add to card

Members

Labels

Checklist

Dates

Attachment

Cover

Custom Fields



Description

Edit

Adding required features to the Layout

Brice was driving. Evan and JD were navigating. 18Jan2023

Evan was driving. Brice and JD were navigating. 19Jan2023

Made edits to the sidebar options: Administrative options and Students view



Activity

Show details

Add dropdowns, text fields

# View Logic

- Cleaned the views to be centered and use the correct terminology
- Distinguished Index from other CRUD views
  - Implemented datatables.net
- Assigned access by role per Use-Case Diagram
  - {insert image around here}

```

31 </dd>
32 <dt class="col-sm-2">
33     @Html.DisplayNameFor(model => model.Curriculum)
34 </dt>
35 <dd class="col-sm-10">
36     @Html.DisplayFor(model => model.Curriculum)
37 </dd>
38 <dt class="col-sm-2">
39     @Html.DisplayNameFor(model => model.Notes)
40 </dt>
41 <dd class="col-sm-10">
42     @Html.DisplayFor(model => model.Notes)
43 </dd>
44 <dt class="col-sm-2">
45     @Html.DisplayNameFor(model => model.IsActive)
46 </dt>
47 <dd class="col-sm-10">
48     @Html.DisplayFor(model => model.IsActive)
49 </dd>
50 </div>
51 </dl>
52 </div>
53 <div class="text-center">
54     <a asp-action="Edit" asp-route-id="@Model?.CourseId">Edit @Model.CourseName</a> |
55     <a asp-action="Index">Back to Courses</a>
56 </div>
57

```

	Course
	Architecture 101
	Course
	Description
	Architecture 101 will teach you the fundamentals of building aritectures.
	Credit
	Hours
	3
	Curriculum
	Notes
	Active
	Course?
	<input type="checkbox"/>

[Back to List](#)

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**CRUD-Courses**

in list [Done](#)

Members

B

JC

+

Notifications

👁

Watch

☰

Description

Edit

Brice drove. Evan on notes. JD navigated. 19Jan2023

Brought in datatables for filter and sort functionality in the Courses Index view.

JD drove for the create view.

☰

Activity

Show details

Suggested

👤

Join

Add to card

👤

Members

🏷

Labels

☑

Checklist

🕒

Dates

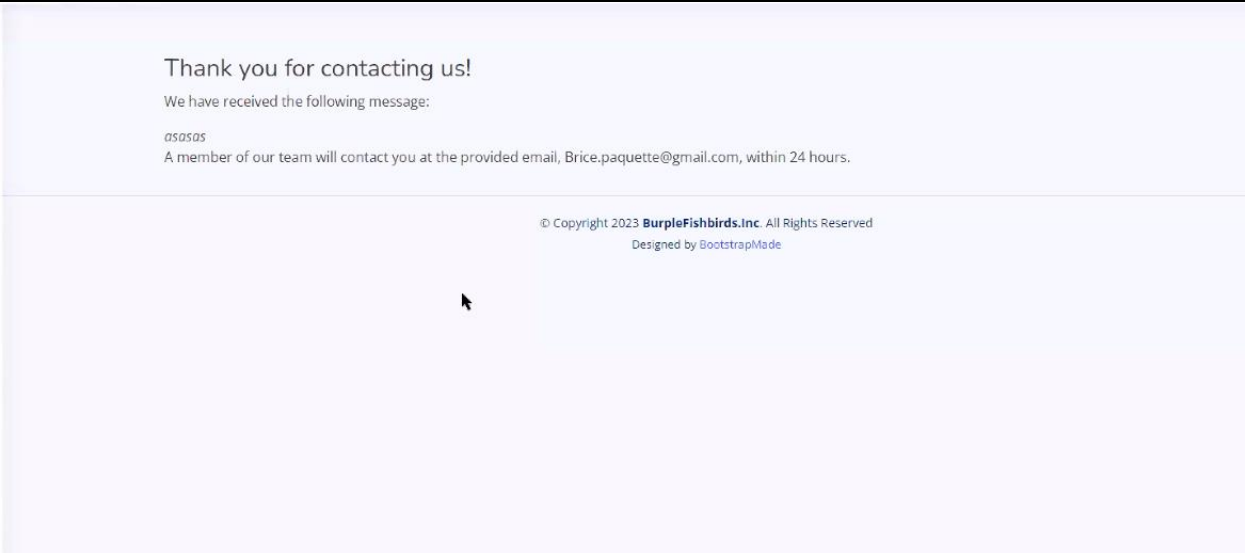
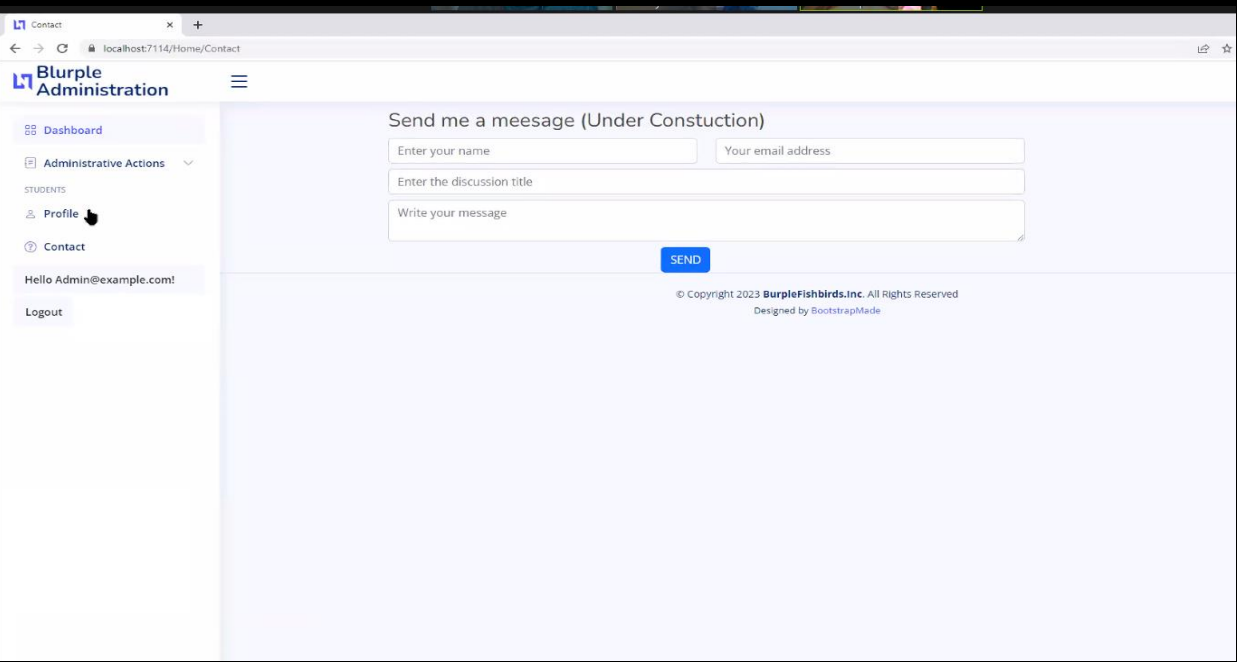
📎

Attachment

# Contact Form

- Updated the appsettings.json with functioning information
- Added a Contact ViewModel for form rendering.
- Brought in \_config alongside \_logger
- Adjusted all other necessary logic for post action

```
@model DAL.Team_Development.UI.NVC.Models.ContactViewModel
<div class="container">
  <br/>
  <br/>
  <div class="row">
    </div>
    <div class="col-xs-12 col-sm-7 col-md-7 col-md-offset-1 col-lg-offset-2 justify-content-center">
      <div class="section-title clear">
        <h3>Send me a message (Under Constuction)</h3>
        <span class="bar-dash"></span>
        <span class="bar-primary"></span>
      </div>
      <form asp-action="Contact" id="contact-form" class="row contact-form no-gutter">
        <div asp-validation-summary="ModelOnly" class="text-danger"></div>
        <div class="col-xs-12 col-sm-6">
          <div class="input-field name">
            <span class="input-icon" id="name"><i class="tf-profile-male"></i></span>
            <input asp-for="Name" class="form-control" placeholder="Enter your name">
            <span asp-validation-for="Name" class="text-danger"></span>
          </div>
          </div>
          <div class="col-xs-12 col-sm-6">
            <div class="input-field email">
              <span class="input-icon" id="email"><i class="tf-envelope2"></i></span>
              <input asp-for="Email" class="form-control" placeholder="Your email address">
              <span asp-validation-for="Email" class="text-danger"></span>
            </div>
            </div>
            <div class="col-xs-12 col-sm-12">
              <div class="input-field">
                <span class="input-icon" id="subject"><i class="tf-pricetags"></i></span>
                <input asp-for="Subject" class="form-control" placeholder="Enter the discussion title">
                <span asp-validation-for="Subject" class="text-danger"></span>
              </div>
              </div>
              <div class="col-xs-12 col-sm-12">
                <div class="input-field message">
                  <span class="input-icon"><i class="tf-pencil2"></i></span>
                  <textarea asp-for="Message" id="message" class="form-control" placeholder="Write your message"></textarea>
                  <span asp-validation-for="Name" class="text-danger"></span>
                </div>
                </div>
                <div class="col-xs-12 col-sm-offset-4 col-sm-4">
                  <div class="input-field">
                    <span class="btn-border">
                      <button type="submit" class="btn btn-primary btn-custom-border text-uppercase">
                        Send Message
                        now
                      </button>
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```



# Testing and Wishing

- Improved styling for Landing page and Layout
- Conditional rendering by role
- Fixed ScheduledClassId create feature to be ClassInfo partial
- Reviewed the Edit submit for Enrollment and Scheduled Classes.

Blurple Administration

Register

Login

Welcome

Welcome to the Blurple Fishbirds Administrative tool. Here we offer a plethora of unique and exciting courses in the realm of life.

Whether you are interested in History, Computer Science, Woodworking, Business, or whatever else, please feel free to contact us using the button below. We hope that Fishbirds can provide you with your educational needs!

For those of you that are associated with with one of the courses we manage, please log in for full functionality.

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Contact us!

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File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q) SAT\_Team\_Development

Debug Any CPU SAT\_Team\_Development.UIMVC SAT\_Team\_Development.UIMVC.Controllers.ScheduledClassesController Create(ScheduledClass scheduledClass)

SAT\_Team\_Development.UIMVC

```
0 references
52 public IActionResult Create()
53 {
54     ViewData["CourseId"] = new SelectList(_context.Courses, "CourseId", "CourseName");
55     ViewData["Scsid"] = new SelectList(_context.ScheduledClassStatuses, "Scsid", "Scsname");
56     return View();
57 }
58
59 // POST: ScheduledClasses/Create
60 // To protect from overposting attacks, enable the specific properties you want to bind to.
61 // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
62 [HttpPost]
63 [ValidateAntiForgeryToken]
64 public async Task<IActionResult> Create([Bind("ScheduledClassId, CourseId, StartDate, EndDate, InstructorName, Location, Scsid")] ScheduledClass scheduledClass)
65 {
66     if (ModelState.IsValid)
67     {
68         _context.Add(scheduledClass);
69         await _context.SaveChangesAsync();
70         return RedirectToAction(nameof(Index));
71     }
72     ViewData["CourseId"] = new SelectList(_context.Courses, "CourseId", "CourseName", scheduledClass.CourseId);
73     ViewData["Scsid"] = new SelectList(_context.ScheduledClassStatuses, "Scsid", "Scsname", scheduledClass.Scsid);
74     return View(scheduledClass);
75 }
76
77 // GET: ScheduledClasses/Edit/5
78 0 references
79 public async Task<IActionResult> Edit(int? id)
80 {
81     if (id == null || _context.ScheduledClasses == null)
82     {
83         return NotFound();
84     }
85     var scheduledClass = await _context.ScheduledClasses.FindAsync(id);
86     if (scheduledClass == null)
87     {
88         return NotFound();
89     }
90     ViewData["CourseId"] = new SelectList(_context.Courses, "CourseId", "CourseName", scheduledClass.CourseId);
91     ViewData["Scsid"] = new SelectList(_context.ScheduledClassStatuses, "Scsid", "Scsname", scheduledClass.Scsid);
92     return View(scheduledClass);
93 }
94
95 // POST: ScheduledClasses/Edit/5
96 // To protect from overposting attacks, enable the specific properties you want to bind to.
97 // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
98 [HttpPost]
99 [ValidateAntiForgeryToken]
```

100% No issues found Ln: 72 Ch: 68 SPC CRLF

Error List Output Package Manager Console

Ready

11 0/0 5 UTWeeks\_TestingContinued SAT-Team-Project

```

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```

```

var enrollment = await _context.Enrollments
    .Include(e => e.ScheduledClass)
    .Include(e => e.Student)
    .FirstOrDefaultAsync(m => m.EnrollmentId == id);
if (enrollment == null)
{
    return NotFound();
}
return View(enrollment);

// GET: Enrollments/Create
0 references
public IActionResult Create()
{
    //EnrollmentViewModel evm = new EnrollmentViewModel()

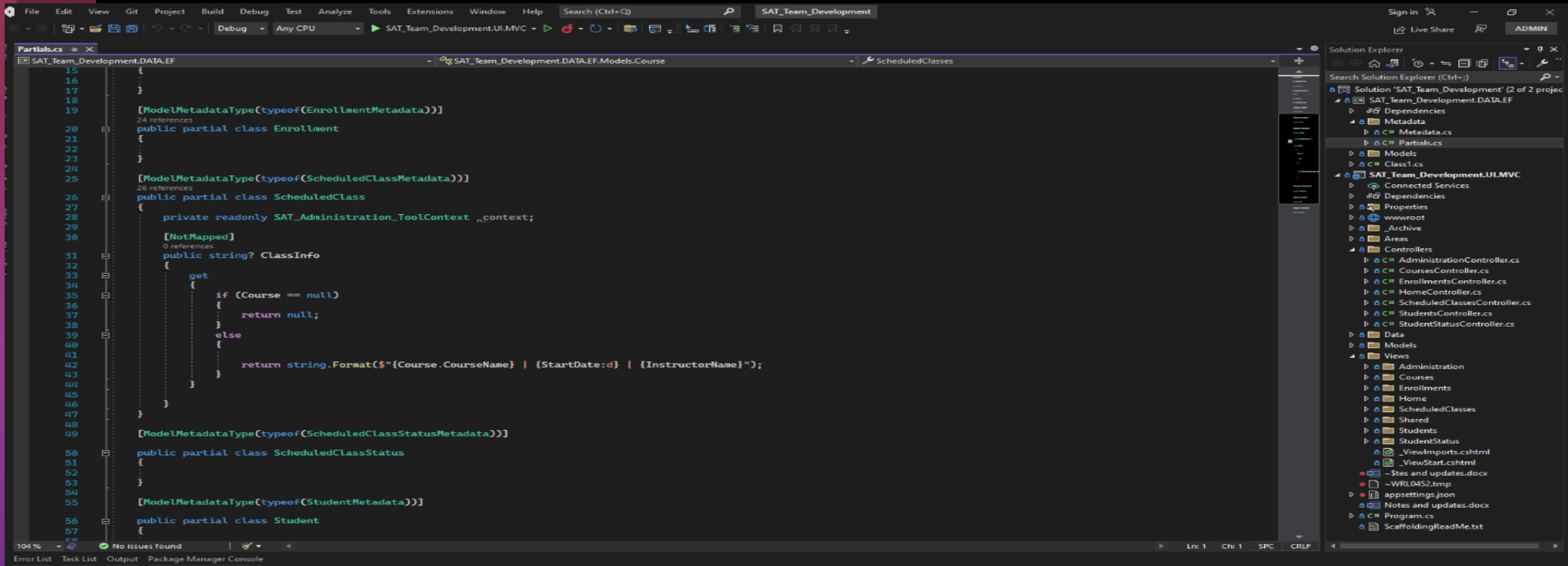
    //ViewData["ScheduledClassId"] = new SelectList(_context.ScheduledClasses, "ScheduledClassId", "InstructorName");
    ViewData["ScheduledClassId"] = new SelectList(_context.ScheduledClasses.Include(x => x.Course), "ScheduledClassId", "ClassInfo");
    ViewData["StudentId"] = new SelectList(_context.Students, "StudentId", "Email");
    return View();
}

// POST: Enrollments/Create
// To protect from overposting attacks, enable the specific properties you want to bind to.
// For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
0 references
public async Task<IActionResult> Create([Bind("EnrollmentId,StudentId,ScheduledClassId,EnrollmentDate")] Enrollment enrollment)
{
    if (ModelState.IsValid)
    {
        _context.Add(enrollment);
        await _context.SaveChangesAsync();
        return RedirectToAction(nameof(Index));
    }
    ViewData["ScheduledClassId"] = new SelectList(_context.ScheduledClasses, "ScheduledClassId", "InstructorName", enrollment.ScheduledClassId);
    ViewData["StudentId"] = new SelectList(_context.Students, "StudentId", "Email", enrollment.StudentId);
    return View(enrollment);
}

// GET: Enrollments/Edit/5
0 references
public async Task<IActionResult> Edit(int? id)
{
    if (id == null || _context.Enrollments == null)
    {
        return NotFound();
    }
}

```

class System.String  
Represents text as a sequence of UTF-16 code units.



# Documentation and Tracking

- Had one person monitor the Kanban board and the ongoing notes doc.
- Added 'Docs and Tracking' to source control
  - Allowed record and changing of hands between driver/navigator/assistant navigator

