

# Bryan Clingan



## Galactic School

Learning Management System

[fsdp.bryandoescode.com](https://fsdp.bryandoescode.com)

Presentation Date: April 1,2021

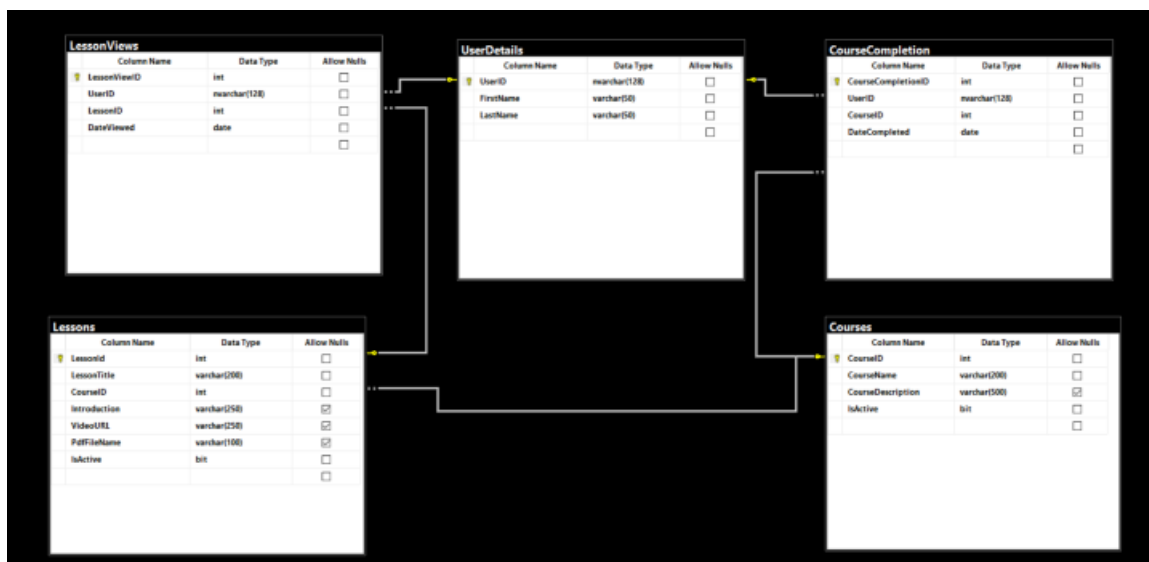
## About Me

I choose to create the LMS final project because my favorite part about coding is creative problem solving. I found the challenges presented in this project more interesting and wanted to solve them in an interesting way. Some of the challenges were to have an LessonView created when a user completed a lesson, having a CourseCompletion created when a user completed all the lessons in any given course that then sent an email to the manager with information pertaining to that user and what course they completed. I have always been interested in the technology field and found coding to be the part of the field that best fit my personality and interests. Coding allows me to exercise my problem-solving skills, as well as my critical thinking. My favorite part about coding that I have found so far is that there is always a new challenge to solve and plenty of ways to solve it.

# Project Overview

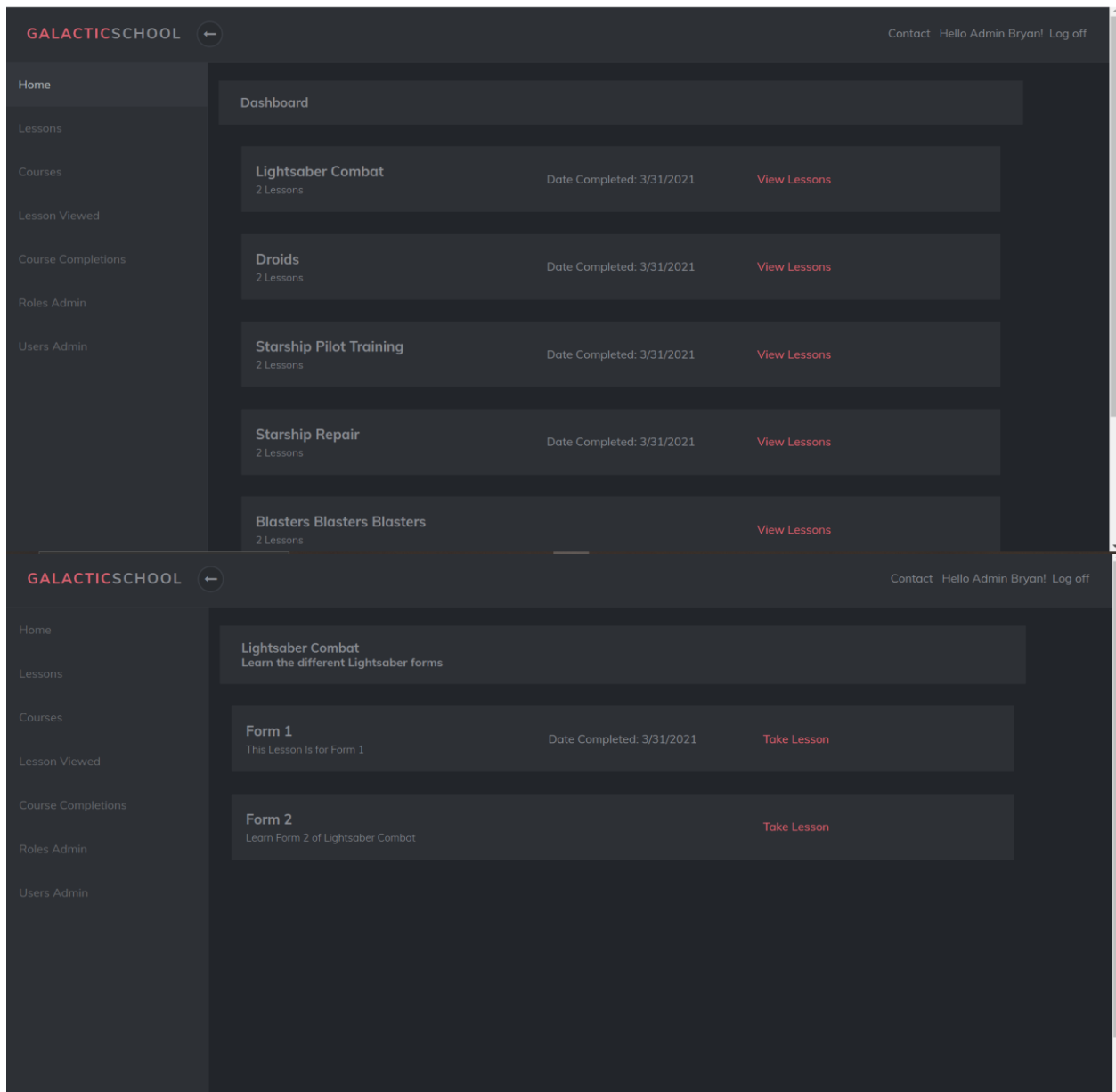
This site was for a company who needs to keep their employees up to date on different policies and procedures. It needed to allow employees to view the different courses and the lessons inside of those courses. The lessons consisted of either an embedded video, an embedded pdf, or both. The courses consisted of any number of lessons. For my version of this project there are 6 courses having 2 lessons each. Each lesson has a video and a pdf. Managers on the site needed to be able to view and keep track of all lesson and course completion statuses for all employees. They also need to be sent an email when any employee completes a course. HR Admins need access to full CRUD functionality. For courses and lessons to keep the material up to date and remove old material.

## Diagram



Here is a Chart for who has access to what parts of the site.

|                  | Roles | HRAdmin | Manager | Employee |   |
|------------------|-------|---------|---------|----------|---|
| Controllers      |       |         |         |          |   |
| Course           |       |         |         |          |   |
| Index            |       | x       |         |          | Employees only have access to own courses |
| Details          |       | x       | x       | x        |   |
| Edit             |       | x       |         |          |   |
| Create           |       | x       |         |          |   |
| Delete           |       | x       |         |          |   |
| CourseCompletion |       |         |         |          |   |
| Index            |       | x       | x       |          |   |
| Details          |       | x       |         |          |   |
| Edit             |       | x       |         |          |   |
| Create           |       | x       |         |          |   |
| Delete           |       | x       |         |          |   |
| Lesson           |       |         |         |          |   |
| Index            |       | x       |         |          | Employees only have access to own lessons |
| Details          |       | x       | x       | x        |   |
| Edit             |       | x       |         |          |   |
| Create           |       | x       |         |          |   |
| Delete           |       | x       |         |          |   |
| LessonView       |       |         |         |          |   |
| Index            |       | x       | x       |          |   |
| Details          |       | x       |         |          |   |
| Edit             |       | x       |         |          |   |
| Create           |       | x       |         |          |   |
| Delete           |       | x       |         |          |   |



Here are a few Screenshots from the website showing that the date completed only shows for completed lessons/courses.

```

[Authorize(Roles = "Admin, Manager, HRAdmin, Employee")]
public ActionResult Details(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Lesson lesson = db.Lessons.Find(id);
    if (lesson == null)
    {
        return HttpNotFound();
    }
    string currentUser = User.Identity.GetUserId();
    var lessonViews = db.LessonViews.Where(x => x.LessonID == lesson.LessonID && x.UserID == currentUser).FirstOrDefault();
    if (lessonViews == null)
    {
        LessonView lsv = new LessonView();

        lsv.LessonID = lesson.LessonID;
        lsv.DateViewed = DateTime.Now;
        lsv.UserID = User.Identity.GetUserId();
        db.LessonViews.Add(lsv);
        db.SaveChanges();
    }

    var courseLessons = db.Lessons.Where(x => x.CourseID == lesson.CourseID).Count();
    var completedLessons = db.LessonViews.Where(x => x.Lesson.CourseID == lesson.CourseID && x.UserID == currentUser).Count();
    var completedCourses = db.CourseCompletions.Where(x => x.CourseID == lesson.CourseID && x.UserID == currentUser).FirstOrDefault();
    if (completedLessons == courseLessons && completedCourses != null)
    {
        CourseCompletion cc = new CourseCompletion();
        cc.CourseID = lesson.CourseID;
        cc.DateCompleted = DateTime.Now;
        cc.UserID = User.Identity.GetUserId();
        db.CourseCompletions.Add(cc);
        db.SaveChanges();
    }
}

```

The code above is found in the Details action result in the Lessons Controller. It handles the creation of LessonView and CourseCompletion entry creation. It checks to see if the current user already has a LessonView entry for the current lesson they are looking for. If not, it creates one. It runs the same check for CourseCompletion and also checks to make sure that the current user has completed all of the lessons in that course. Finally, when it creates the course completion it sends an email to the manager. The email code has been left out for security reasons.

# Bryan Clingan

## FULL-STACK DEVELOPER

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[linkedin.com/in/bryan-clingan-b091b4202/](https://www.linkedin.com/in/bryan-clingan-b091b4202/)

### QUALIFICATIONS

- Solid foundational knowledge of designing and developing full-stack web applications using .NET framework.
- Leadership, management, and problem-solving skills honed through Eagle Scout and managerial experiences.
- Customer service skills gained through customer-facing roles and retail experience.

### TECHNICAL SKILLS

**Front End:** HTML5, JavaScript, jQuery, jQueryUI, CSS3, Responsive/Mobile Web Development, Bootstrap, ReactJS  
**Middle Tier:** Visual Studio, C#.NET, ASP.NET, LINQ, MVC, EF  
**Back End:** ADO.NET, SQL, SQL Server, SSMSE

### INDEPENDENT DEVELOPMENT PROJECTS

- **Personal Site:** [www.bryandoescode.com](http://www.bryandoescode.com)
- **StoreFront:** Created a secure application for managing product data. Application is built to simulate an online store front with a shopping cart. Administrators can manage product, category, and vendor data.
- **S.A.T. Scheduling Administration Tool:** Created a secure application for managing product data. Application is built to simulate an online class scheduling system. Administrators will have the ability to manage students, courses, scheduled classes, and enrollments.
- **Final Project:** Created a secure data-driven ASP.NET MVC application from design through deployment for managing the tracking and organization of hardware and software within a company. Administrators have the ability to manage employee, department data and all details relating to assigned hardware and software.

### TECHNICAL TRAINING

CENTRIQ TRAINING – KANSAS CITY, MO

December 2020 – April 2021

#### Full-Stack Web Developer Program

- MVC Framework
- Trouble Shooting & Debugging
- Source Control
- Agile/Scrum (Created Team Project)
- Website Deployment
- Pair Programming
- Code Review
- Teamwork, Problem Solving & Effective Communication

### PROFESSIONAL EXPERIENCE

QUIKTRIP – KANSAS CITY, MO

2016 – 2020

#### Assistant Manager - Nights

- Provided excellent customer service approximately 1000 customers per week.
- Assisted the Store Manager in overseeing the store and staff.
- Completed nightly store cleaning and managed daily morning setup.
- Organized and stocked the inventory in the store on a nightly basis.
- Oversaw nightly delivery of internal QuikTrip products and weekly vendor deliveries.