

David Schejbal

Spira's Blitzball Training Camp

Learning Management System

Presentation Date: August 19, 2021

Project Overview

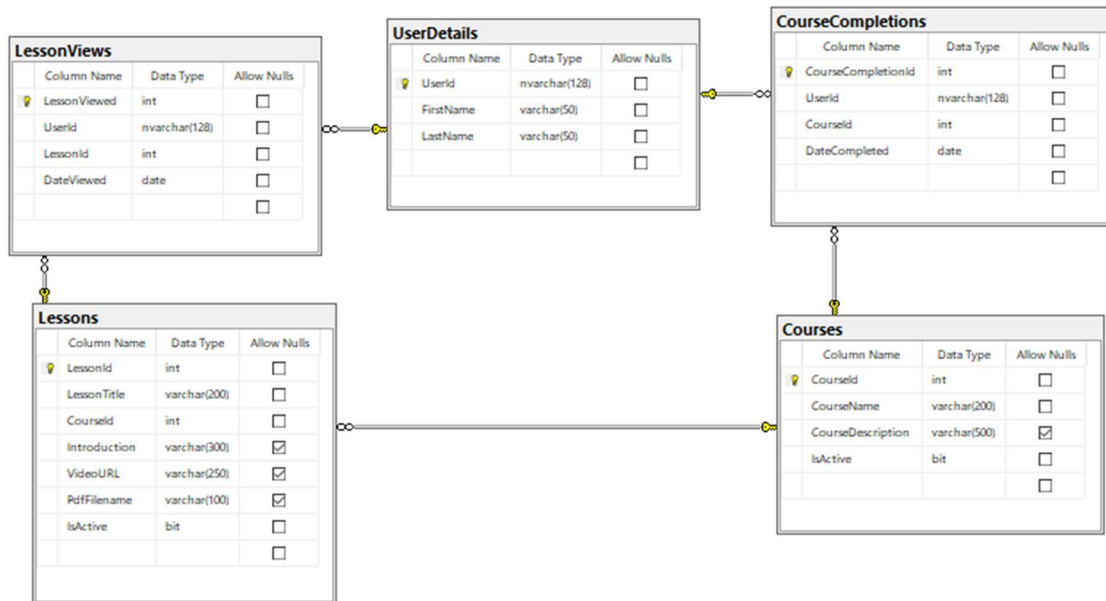
I chose to create a learning management system that teaches new players of one of my favorite video games, Final Fantasy X, about playing blitzball, a minigame/sport within the Final Fantasy X game. I have allowed Admins to create, edit, or delete courses or lessons. Admins and Managers can track the progress of students as they complete courses by showing the date completed in the data tables. Users that are not registered in the system can contact the site via email as well as view the landing page to see the course overview.

I have always looked to challenge myself and I feel as though coding can finally give me the challenge that I have been searching for regardless of how much time I spend with it due to the ever-evolving nature of technology.

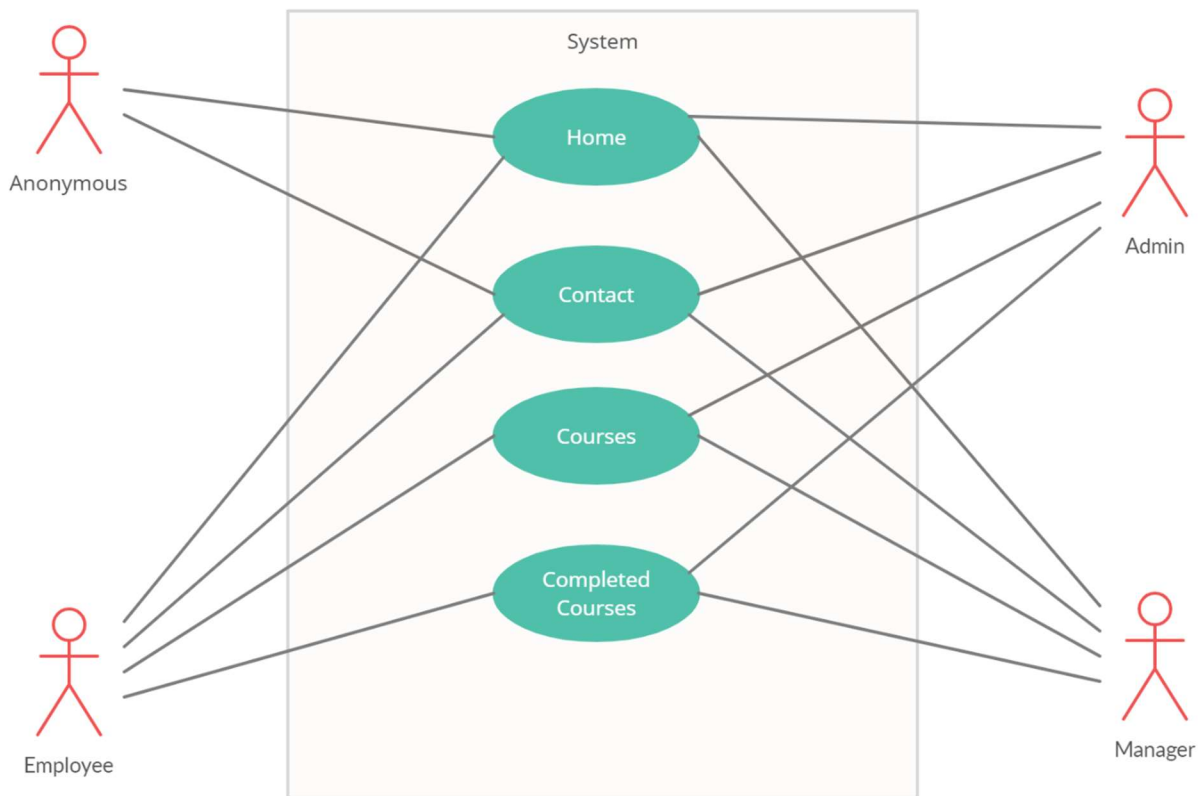
Project Details

Create an educational database to enable students (Employees) to access training courses and lessons. Users can login to access the courses and see course completion by date. If the user is an Admin all CRUD functionality is available.

Database Diagram

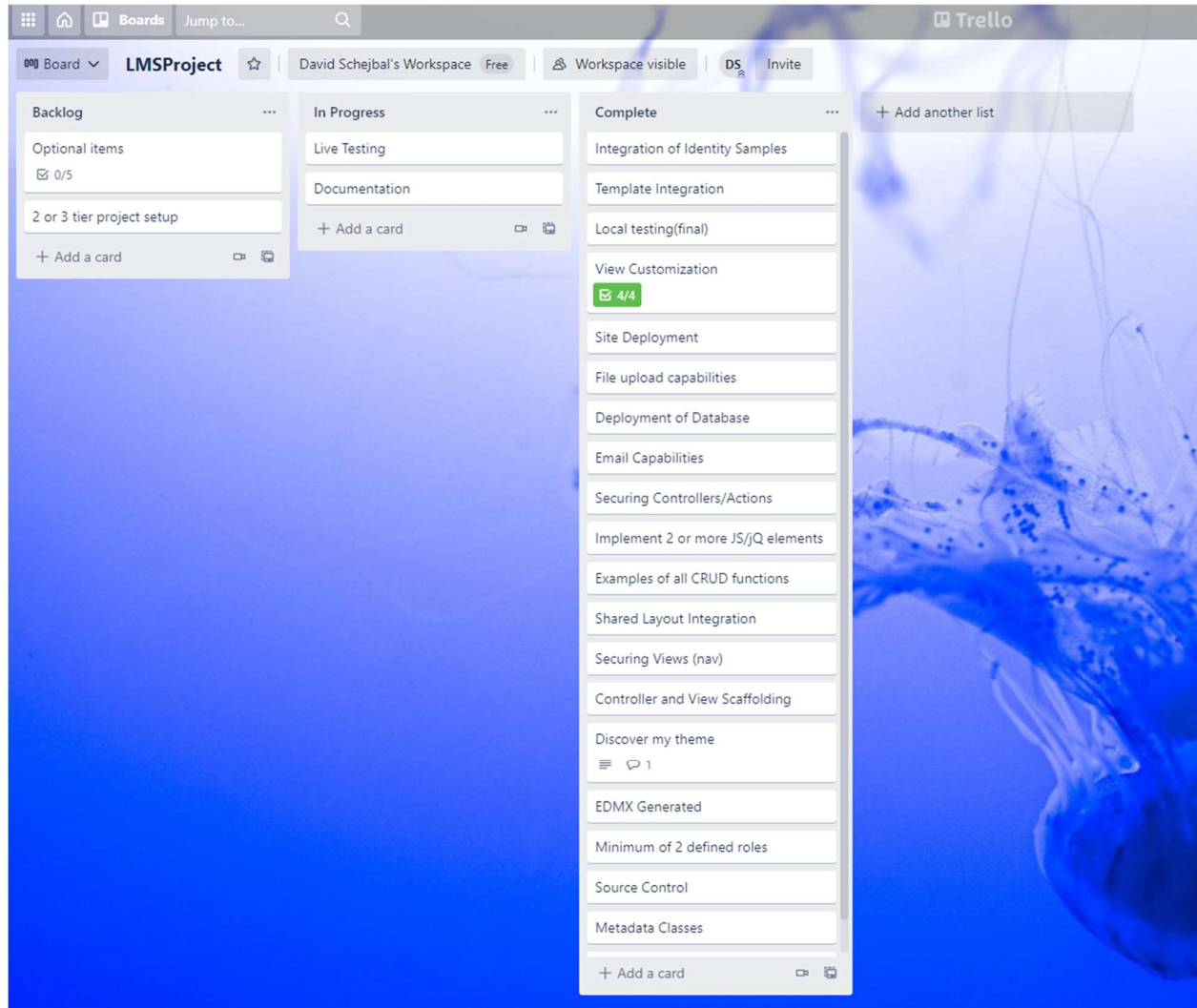


Use/Case Diagram



Employees are only able to see their own courses and completed courses while Managers and Admins can track course completions for all employees.

Trello Board/Progress



The trello board helped me keep track of what requirements I still needed to get to by keeping it all in one place and giving a visual representation.

```

Lesson lesson = db.Lessons.Find(id);
int courseLessonCount = db.Lessons.Where(x => x.CourseId == lesson.CourseId && x.IsActive == true).Count();
int completedLessonCount = db.LessonViews.Where(x => x.Lesson.CourseId == lesson.CourseId && x.UserId == userid && x.Lesson.IsActive == true).Count()

if (User.IsInRole("Employee") && courseLessonCount == completedLessonCount)
{
    CourseCompletion comp = new CourseCompletion();
    comp.UserId = userid;
    comp.CourseId = lesson.CourseId;
    comp.DateCompleted = DateTime.Now.Date;

    //Prevent duplicate completions
    var firstCompletion = db.CourseCompletions.Where(x => x.UserId == userid && x.CourseId == lesson.CourseId).FirstOrDefault();
    if (firstCompletion == null)
    {
        db.CourseCompletions.Add(comp);
        db.SaveChanges();

        string completer = db.UserDetails.Where(x => x.UserId == userid).FirstOrDefault().FullName;
        string completedCourse = db.Courses.Where(x => x.CourseId == lesson.CourseId).FirstOrDefault().CourseName;
        var completeDate = comp.DateCompleted;

        string msg = $"{completer} completed the {completedCourse} course, on {completeDate:d}.";

        MailMessage m = new MailMessage("dwschejbal@outlook.com", "fall3ndown369@yahoo.com", "Course Completion", msg);
        m.Priority = MailPriority.High;
        SmtpClient client = new SmtpClient("mail.schejbalcodes.com");
        client.Credentials = new NetworkCredential("dwschejbal@outlook.com", "P@ssw0rd");
    }
}

```

This code marks when a student completes a course and saves it to the database.

Below is the code that displays to the user whether they have completed the course or not in the courses view.

```

@if (item.hasCompleted == true)
{
    <span>Completed</span>
}
else
{
    <span>Incomplete</span>
}

```

DAVID SCHEJBAL

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FULL STACK DEVELOPER

.NET Framework
Full Stack Web Application Design
C# Fundamentals
Database Management

Unit Testing
Software Development Lifecycle
Agile Scrum Methodology
Continued Growth in IT Knowledge

TECHNICAL AND PROFESSIONAL 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

Professional Skills: Troubleshooting, Critical Thinking, Project Management Fundamentals, Teamwork

INDEPENDENT DEVELOPMENT PROJECTS

- **Personal Site:**
 - **StoreFront:** Created a secure application for managing product data. Application is built to simulate an online store front with a shopping cart. Administrators have the ability to 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.
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TECHNICAL TRAINING

Full Stack Web Developer Program, Centriq Training
St. Louis, MO

Anticipated Graduation 08/2021

- | | |
|--------------------------------|----------------------|
| • MVC Framework | • Website Deployment |
| • Trouble Shooting & Debugging | • Pair Programming |
| • Source Control | • Code Review |

- Agile/Scrum (Created Team Project)
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WORK EXPERIENCE

Installer, Chesterfield Fence and Deck
Chesterfield, MO

02/2020 – 05/2021

- Add 3-7 bullet points of job accomplishments and responsibilities, starting each bullet point with action verbs: Developed, Assisted, Created, etc. List most recent job first.
- Preparing the work truck each day with proper tools and materials
- Reading building plans to ensure decks are built to client specifications
- Following County code guidelines
- Communicating with customers since work days were weather reliant

Senior Shift Leader, Pizza Hut
Arnold, MO

11/2012 – 03/2020

- Counting product inventory and making sure everything is organized correctly
- Simultaneously keeping track of multiple employees working in each position
- Delegated tasks evenly between employees to ensure we are able to close up on time
- Prepared cash deposits each night
- Answered phone calls throughout the night while maintaining productivity as employees clock out
- Assisted with training new employees in multiple positions

Prep/Dishwasher, Cici's Pizza
Arnold, MO

08/2011 – 11/2012

- Prepared a variety of food accurately and quickly
- Ensured that the store had the correct amount of product daily
- Maintained consistent flow of product in the dining room for customers