



# Joshua Harrison

Learning Management System

[www.fsdp.jshdevco.com](http://www.fsdp.jshdevco.com)

Presentation Date: 12 July 2019

# About Me

I grew up in the Kansas City area and enlisted in the Army my senior year of high school. In the Army, my job title was Field Artillery Tactical Data Systems Specialist. In this role, it was my duty to collect, input, and process battlefield coordinates using the AFATDs (Advanced Field Artillery Tactical Data System), to enable accurate and effective fires of various self-propelled and towed artillery pieces. During my enlistment I spent a little more than two years deployed to overseas locations. Once to South Korea and another to Babil Province, Iraq.

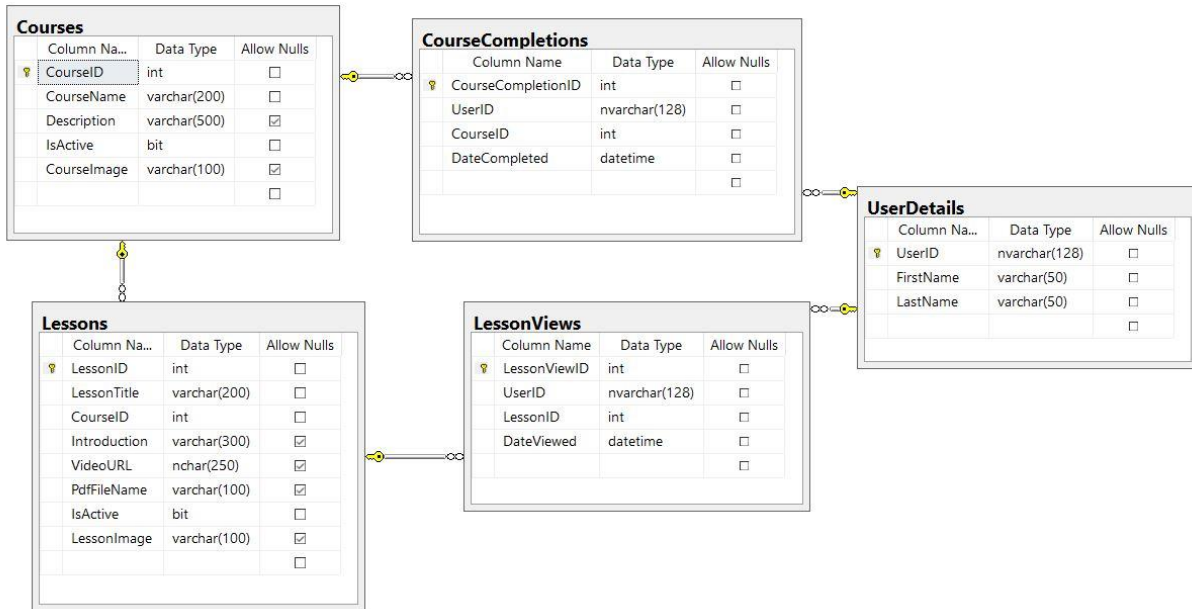
Throughout my life, technology has played a vital role in my personal development. I began coding as a hobby when I was a child after my father introduced me to Visual Basic and HTML. After completing my enlistment, I decided to focus on my personal growth as well as my growing family. I attended college and began to study IT/Software Engineering at University of Phoenix. After obtaining 50 credits in IT, I had to re-focus my efforts in sustaining my family. I began to work full time and had to place school behind me for the time being.

During this period, my interest in coding never went away and I logged many hours using FreeCodeCamp.org and other various self-guided learning environments. I chose the Learning Management System simply because I have attended the University of Phoenix online and felt the UI/UX was lacking a streamlined and intuitive design. I wanted to see how I could complete the requirements and maintain a user-friendly environment, without sacrificing the required functionality.

# Project Brief

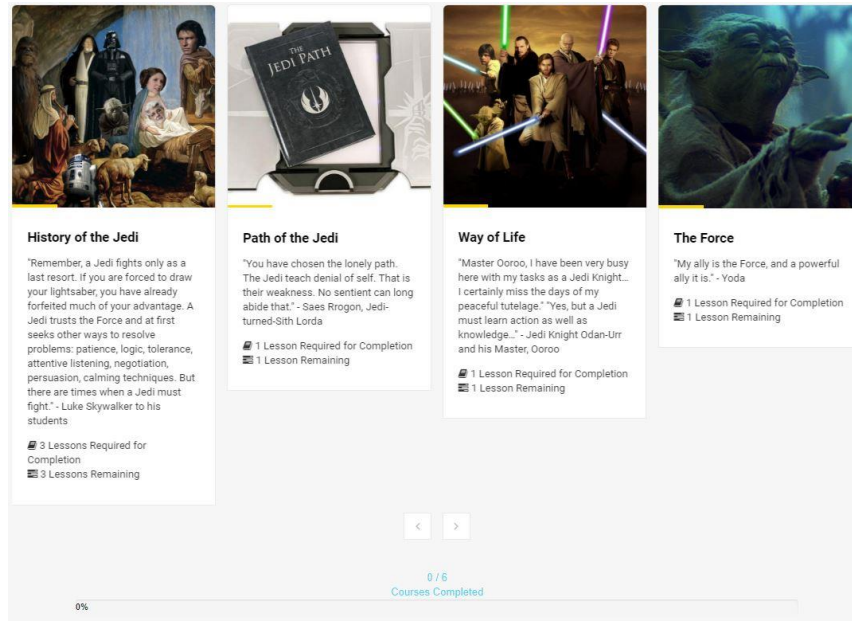
The requirements were to create a Learning Management System that allows a user to create an account and view a course along with its associated lessons. Upon doing so, an email is generated and automatically sent to the manager. Simultaneously across the site, various methods to track individual progress are displayed. The admin has full CRUD (create, read, update, delete) functionality of the courses and lessons.

# Database Schema

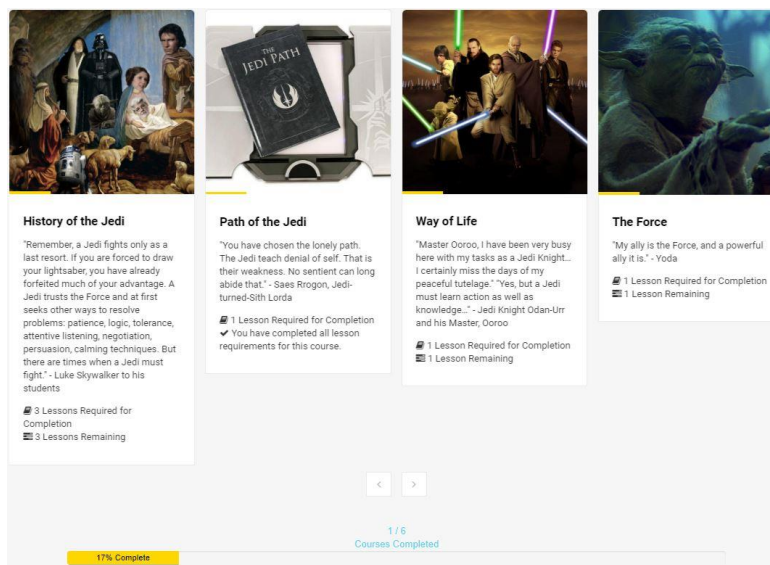


## Use / Case

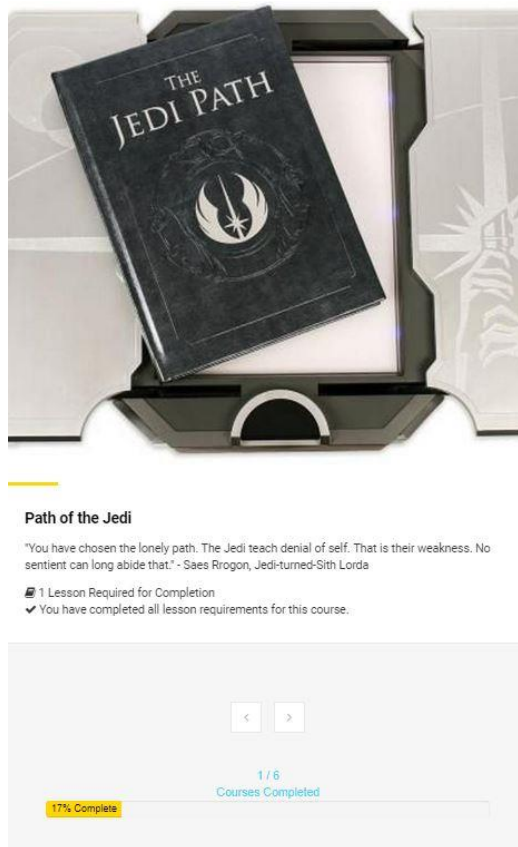
Cours					
	Index	Edit	Details	Create	Delete
Admin	x	x	x	x	x
Manager	x		x		
Employee	x		x		
Unauthenticated/ Anon					
Lessons					
	Index	Edit	Details	Create	Delete
Admin	x	x	x	x	x
Manager	x		x		
Employee	x		x		
Unauthenticated/ Anon					
CourseCompletions					
	Index	Edit	Details	Create	Delete
Admin	x	x	x	x	x
Manager	x		x		
Employee	x		x		
Unauthenticated/ Anon					
LessonViews					
	Index	Edit	Details	Create	Delete
Admin	x	x	x	x	x
Manager	x		x		
Employee	x		x		
Unauthenticated/ Anon					



This is the course page when viewed on widescreen



After a user completes all lessons required the progress bar updates



In the mobile view courses only show 1!

```

@{
    ViewBag.Title = "Course Details";
    LMS.DATA.EF.LMSEntities ctx = new LMS.DATA.EF.LMSEntities();
    var lesson = ctx.Lessons.Where(x => x.CourseID == Model.CourseID);
    var user = User.Identity.GetUserId();
    var titleViewed = ctx.LessonViews.Where(x => x.UserID == user);
    var notViewed = lesson.Where(x => !titleViewed.Any(y => y.LessonID == x.LessonID));
    var viewed = lesson.Where(x => titleViewed.Any(y => y.LessonID == x.LessonID));
}

@if (User.IsInRole("Employee"))
{
    <div class="col-md-3">
        <div class="box m30 wow slideInLeft">
            <i class="flaticon-computer-tool-for-education" id="icons"></i>
            <h4>Course Lessons</h4>
            <div>
                <div>
                </div>
                @foreach (var views in viewed)
                {
                    <p>
                        <a href="~/Lessons/Details/@views.LessonID">@views.LessonTitle</a><i class="fa fa-check"></i>
                    </p>
                }
                @foreach (var items in notViewed)
                {
                    <p>
                        <a href="~/Lessons/Details/@items.LessonID">@items.LessonTitle</a>
                    </p>
                }
            </div>
        </div>
    </div><!-- end col -->
}
else
{
    <div class="col-md-3">
        <div class="box m30 wow slideInLeft">
            <i class="flaticon-computer-tool-for-education" id="icons"></i>
            <h4>Course Lessons</h4>
            <div>
                <p>Lesson Titles will display here for employees.</p>
            </div>
        </div>
    </div><!-- end col -->
}

```

## Course Lessons

Understanding the Galactic  
Standard Calendar ✓

Treaty of Coruscant ✓

The Jedi Order

This code snippet will show all lesson titles associated with the particular course you are viewing only if you are in the role of employee. If the employee has completed the course, a yellow checkmark is placed next to the course to signify the completion. Otherwise, it will just display the link to the unviewed course.

## Resume

JOSHUA S  
HARRISON

FULL-STACK DEVELOPER

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Connect with me



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## SUMMARY OF QUALIFICATIONS

- Solid foundational knowledge of designing and developing full-stack web applications using .NET framework.
- Centriq Training's featured .Net Developer for the month of July 2019.
- Responsive Mobile Web Design Certificate from freeCodeCamp.org

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## TECHNICAL SKILLS

**Front End:** HTML5, JavaScript, jQuery, jQueryUI, CSS3, Responsive/Mobile Web Development, Bootstrap

**Middle Tier:** Visual Studio, C#.NET, ASP.NET, LINQ, MVC, EF

**Back End:** ADO.NET, SQL, SQL Server, SSMSE jQuery

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## INDEPENDENT DEVELOPMENT PROJECTS

- **Personal Site:** [www.jshdevco.com](http://www.jshdevco.com)
- **FreeCodeCamp.org** [www.freecodecamp.com/jarshvader99](http://www.freecodecamp.com/jarshvader99)
- **U Store:** 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 products, category and vendor data.
- **Final Project:** Created a data driven learning management system. It is a simulation of an online resource for an employee/student to view courses and associated lessons. Once viewed, a manager receives an automatically generated email. The employees progress can be viewed for both courses and lessons. The Admin has full CRUD functionality.



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## TECHNICAL TRAINING

**Centriq Training**, Kansas City, MO  
*Full-Stack Web Developer Program*

March 2019 – Present

*Core Competencies:*

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

**University of Phoenix**, Denver, CO  
*Information Technology/ Software Engineering (48 credits)*

November 2013 – July 2015

*Core Competencies:*

- Information Systems Fundamentals
- Algorithms and logic for computer programming
- Introduction to Operating Systems
- Web Design Fundamentals
- Business Systems
- Public speaking for the IT Professional

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## PROFESSIONAL EXPERIENCE

**McDaniel Furnace and Sheet Metal**, Independence, MO  
*HVAC/r Technician*

July 2012 – August 2014 | July 2017 – March 2019

- Installed, maintained, troubleshot, and repaired air conditioning and heating systems, refrigeration systems, and electrical systems.
- Read blueprints, schematic, or wiring diagrams to determine location, size, capacity, and type of component needed to repair the unit.
- Maintained company vehicle accident free. Entrusted with company gas card.
- Ensured proper storage, disposal, and safe handling of high-pressure gases and various refrigerants.
- Maintained an organized vehicle and tool-boxes allowing for effective inventory of equipment and tools.

**United States Postal Service**, Colorado Springs, CO  
*City Carrier Assistant*

January 2016 – July 2017

- Obtained signed receipts for registered, certified, and insured mail.
- Sorted mail for delivery, arranging it in delivery sequence.
- Delivered mail to residences and business establishments.
- Signed for cash-on-delivery and registered mail before leaving the post office.
- Recorded address changes and redirected mail for those addresses; held mail for customers.

**Defense Commissary Agency**, Buckley AFB, Aurora, CO  
*Maintenance Worker*

August 2014 – December 2015

- Conducted daily maintenance and cleaning duties of grocery store.
- Strict adherence to OSHA safety regulations and guidelines concerning cleaning products and proper use.
- Determined storage space and arranged product in warehouse for effectiveness.

## **United States Army Active Duty**

June 2006 – May 2010

### *Field Artillery Tactical Data Systems Specialist*

#### **Battalion Fire Direction Cannon Crew Member June 2006 – May 2010**

- Integrated and processed tactical battlefield information from multiple users and sensors through a network of Army and JOINT automated battle command systems.
- Established, maintained and operated communication systems.
- Assisted in preparation and deployment of Tactical Operation Center
- Prepared Advanced Field Artillery Tactical Data System for operation.
- Received and inputted accurate data and firing instructions.
- Maintained firing capabilities maps and charts.

#### **Training Room NCOIC (Supervisor) June 2008 – May 2010**

- Supervised 5 soldiers in completing various daily administrative tasks.
- Extensive knowledge in Microsoft Office applications. Responsible for creating weekly slideshows for the Commander's Briefing and Platoon Sergeant meetings. Collected, recorded, and stored all training data in custom spreadsheets using MS Excel.
- Held a SECRET security clearance and was personally responsible for the processing and handling sensitive information and all personnel files for up to 200 soldiers at a given time.
- Developed and enacted a flow of daily operations that increased company efficiency and maintained accurate and thorough data.

**Additional positions held:** Training Room Clerk, Battery Command Driver / Personnel Security Detachment, Battalion Human Resource Specialist