

PMFD

# The Coffee Shop LMS

[FSDP.abigaylewillis.com](https://FSDP.abigaylewillis.com)



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## About Me

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I chose to do a learning management system because in my time in customer service I became the trainer for things I knew well. I felt like I would be able to add some functionality that would be really useful when I was a trainer. As a coffee and tea enthusiast, I thought it would be fun to “train” people on those things. I have worked as a barista and I know the ins and outs of a lot of drink requests. I chose to do a learning management system for a coffee shop because I know what people are trained on in coffee shops and I love almost all the drinks that are made.

During the process of this project I learned that I really like tools like trello boards to help keep me on task. I would be working on solving a problem that is in the “Work in Progress” trello list and I would see something else that needed to be fixed. Sometimes I would start to fix it then stop myself but usually I was able to just switch over to my trello board and add it to the “Backlog” list. This allowed me to feel like the issue would still get solved but I didn’t need to address it right now and I could focus on the task at hand which allowed me to finish those tasks much faster.

The part of this project I enjoyed the most was the logic in the controllers. This logic was mostly C# and LINQ. I really enjoyed being able to manipulate the data to make sure what was passed to the views was correct. I also enjoyed making new entries in the database based on events that happened on the site. Overall the part of coding I enjoy the most is the logic and using that logic to solve a problem.

## Summary of Requirements

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Create a learning management system for a company. The employees need to be able to log in and take the courses they need, as well as view their progress toward course completions as well as lesson completions. The manager needs to be able to view employees progress toward completions and be sent an email when an employee completes a course. The HR (Admin) has full crud functionality for lessons and courses, view progress of employees, upload PDF’s for the lessons, and manage and view unpublished lessons and courses.

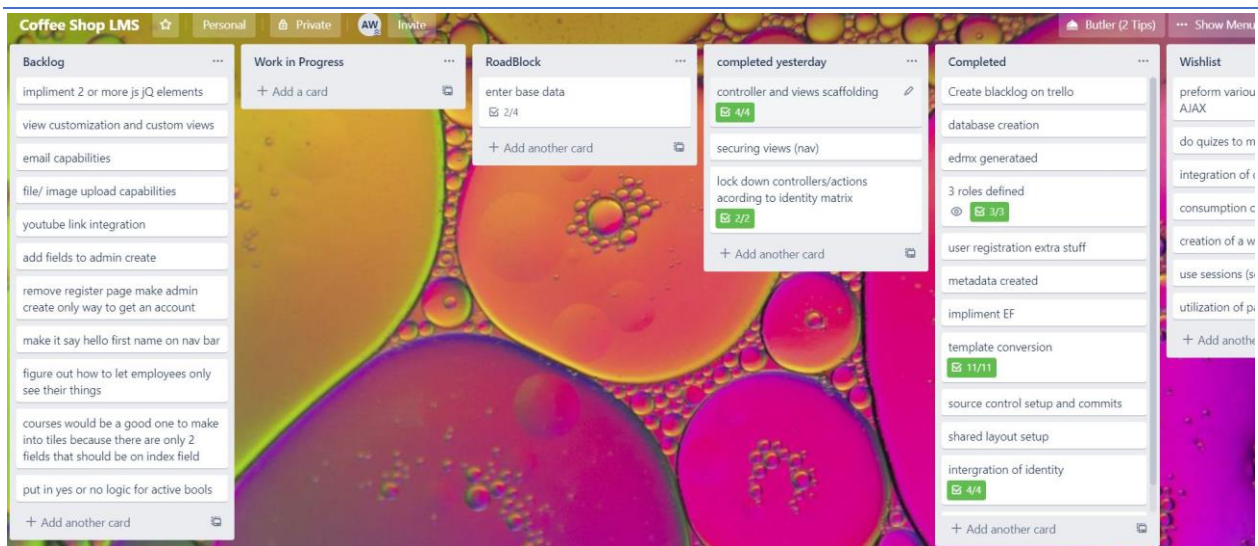


## Identity Matrix

Identity Matrix				
	Anon	Employee	Manager	HR-Admin
Home				
Index	x	x	x	x
About	x	x	x	x
Contact	x	x	x	x
Lesson Views				
Index		personal	x	x
Details		personal	x	x
Create			remove	
Edit				x
Delete				x
Lessons				
Index		x	x	x
Details		x	x	x
Create				x
Edit				x
Delete				x
Course Completions				
Index		personal	x	x
Details		personal	x	x
Create		email manager and remove		
Edit				x
Delete				x
Courses				
Index		x	x	x
Details		x	x	x
Create				x
Edit				x
Delete				x
Quiz Questions 2. awesome				
Index				
Details				
Create				
Edit				
Delete				

The Quiz Questions in the identity matrix and in the database diagram are there because that is functionality I would like to add in the future but have not added in yet.

## Trello Board



This is a screen shot of my trello board. I was keeping track of what was done each day by adding it to the complete yesterday list so that each morning at our standups I was able to remember the exact tasks I had completed the day before. I also had both a backlog and a wishlist because the backlog was issues that needed to happen to complete the project and the wishlist was thing I wanted to add in the were not requirements.

## Code snippets

```
Lesson lesson = db.Lessons.Find(id);
LessonView lessonView = new LessonView();
lessonView.LessonID = (int)id;
lessonView.UserID = User.Identity.GetUserId();
DateTime today = new DateTime(DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day);
lessonView.DateViewed = today;

LessonView entryHasBeenEnteredBefore = db.LessonViews
    .Where(x => x.LessonID == lessonView.LessonID && x.UserID == lessonView.UserID)
    .FirstOrDefault();
if (entryHasBeenEnteredBefore == null)
{
    db.LessonViews.Add(lessonView);
    db.SaveChanges();
}
```

The top section of this code is creating a lesson view object. I really enjoyed writing the code in the lower section because it is the code that checks the database to see if there is already a lesson view for that employee lesson combination. This prevents one employee from completing the same lesson over and over and making many unnecessary entries in the database.

```

if (lesson.VideoURL != null && lesson.VideoURL != "" )
{
    var v = lesson.VideoURL.IndexOf("v=");
    var amp = lesson.VideoURL.IndexOf("&", v);
    string vid;
    // if the video id is the last value in the url
    if (amp == -1)
    {
        vid = lesson.VideoURL.Substring(v + 2);
        // if there are other parameters after the video id in the url
    }
    else
    {
        vid = lesson.VideoURL.Substring(v + 2, amp - (v + 2));
    }
    lesson.VideoURL = vid;
}
else
{
    lesson.VideoURL = null;
}

```

The youtube video url functionality was fun. Some of the base functionality we used from a site online but there were somethings that needed to be changed. For instance the original code would not let me edit or create a lesson without a youtube url but that is a nullable field in my database so I wanted my site to better reflect that. I added the first line here so that if the video url isn't there this code will not run so there will not be an error caused by it. This allows my user to have lessons with or without videos.

```

@if (Model.VideoURL != null)
{
    <dt>
        Video
    </dt>

    <dd>
        <div id="player"></div>
    </dd>
}

@if (Model.PdfFileName != "DefaultPDF.pdf")
{
    <dt>
        PDF:
    </dt>

    <dd>
        @*@Html.DisplayFor(model => model.PdfFileName)*@
        <embed src="~/Content/pdfs/@Model.PdfFileName" width="800" height="400" />
    </dd>
}

```

This code is from the individual lesson details view. In this code I implemented some if statements so that if this particular lesson did not have a video url then the player would not show up, or if it didn't have a pdf the pdf viewer didn't show up. I felt this helped the details of the lesson views to look more streamlined so that there were no unnecessary blocks of the screen displaying information that is not useful.

# Abigayle Willis

TEAM ORIENTED WEB DEVELOPER

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## SUMMARY OF QUALIFICATIONS

- Solid foundational knowledge of designing and developing full-stack web applications using .NET framework.
  - Conflict resolution skills gained from experience in customer service and education.
  - Excellent customer service, troubleshooting, and interpersonal skills through five years in the customer service industry.
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## 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 jQuery

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## INDEPENDENT DEVELOPMENT PROJECTS

- **Personal Site:** abigaylewillis.com
  - **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

**Centriq Training**, Kansas City, MO

January 2020 – Present

*Full-Stack Web Developer Program*

*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.



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## PROFESSIONAL EXPERIENCE

**Amos Family Funeral Home**, Shawnee, KS

May 2017 – Present

*Receptionist*

- Answer all incoming calls and handle all initial inquiries for family and medical staff.
- Assist staff with computer and technology needs.
- Greet, assist and direct guests, workers, and visitors.
- Input handwritten information to software for easy retrieval.

**Kansas Counselors Inc.**, Lenexa, KS

May 2019 – September 2019

*Verification Specialist*

- Organized and responded to consumer disputes regarding medical bills.
- Compared company records with consumer claims to locate discrepancies.
- Used automated program to generate responses based on investigation details.

**Goldfish Swim School**, Overland Park, KS

May 2018 – May 2019

*Front Desk Lead, Trainer, Swim Teacher*

- Found, described, and isolated bugs in new software being implemented.
- Worked with IT department to identify and describe defects.
- Trained front desk employees on new software.
- Supervised all staff on pool deck and in water.
- Used iClasspro to schedule classes and take payment for memberships.
- Used Salesforce to track and follow up with leads for new members.
- Awarded employee of the month.
- Taught children how to swim by using the correct movements.

**Kansas Counselors Inc.**, Lenexa, KS

May 2017 – September 2017

*Transfer Agent*

- Analyzed consumer information to support processes for collecting debts.
- Negotiated terms to meet consumer and client needs.

**Starbucks**, Independence, MO

April 2016 – May 2017

*Barista*

- Supported customers with creative suggestions and product information.
- Maintained cleanliness and availability of products.

**AmeriCorps**, Eldon, MO

August 2015 – April 2016

*Tutor*

- Helped students understand and complete work.
  - Assisted teachers after school and during transitions.
  - Developed a system for keeping track of notes to help others tutors and students.
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## VOLUNTEER EXPERIENCE

**Tall Oaks Camp and Conference Center**, Linwood, KS

*Director, Councilor*

**Salvation Army**, Kansas City, KS

*Volunteer*

**Johnson County Christmas Bureau**, Merriam, KS

*Christmas Shopper*

**Johnson County Food Ministry**, Olathe, KS

*Server*

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