Tasha Lesmeister

Project Requirements

- *Admin*
- CRUD functionality for courses and lessons.
- Upload PDFs in lessons.
- View and manage unpublished courses.
- *Manager*
- View completed courses and lessons.
- Receive email notification when course is complete.
- *Employee*
- View Lessons
- View own personal progress on 6 CE's required per year.

Final Project
Learning Management System

Presentation Date: 10/25/2019

Additional Resources

- tlesmeister525@gmail.com
- http://devmeister.net/
- http://fsdp.devmeister.net/
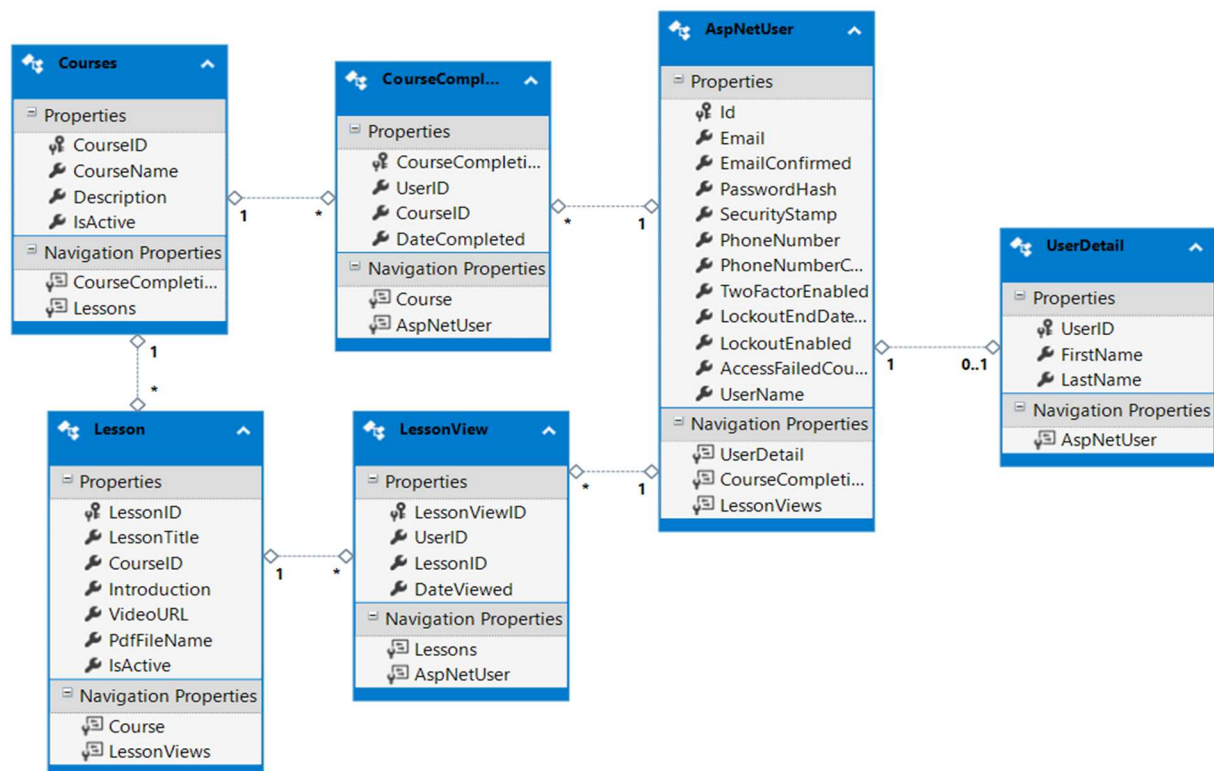
I'm Tasha Lesmeister, I have a dual skillset in IT administration and Full Stack Web Development. After graduating from Centriq's IT System's and Security program in 2016 I held several Helpdesk, Support, and IOC/NOC (Integrated/Network Operations Center) roles. I chose to come back to Centriq as my interest in technology is constantly growing. In this track I wished they would have covered MCSA certification prep, coming from the administration track I feel certifications helped me out tremendously. Since this was not covered in the track, I will be prepping and taking the following exams 70-480, 70-483, and 70-486 after graduation. During my project creation I gravitated towards the MVC functionality because it gave me more of a challenging task at hand. I seek challenges to better myself and grow as an individual. My favorite thing about coding would have to be seeing the results after writing a SUCCESSFUL block of code. As for my project I chose LMS because it's based on what I am passionate about (LEARNING).

Created *Use/Case Diagram* & *Trello Board* Before starting project (Helped with Time Management)

Courses	HR/Admin	Manager	Employee
Index	x	x	
Details	x	x	
Create	x		
Edit	x		
Delete	x		

CourseCompletion	HR/Admin	Manager	Employee
Index	x	x	x - only theirs
Details	x	x	
Create	x		
Edit	x		
Delete	x		

Lessons	HR/Admin	Manager	Employee
Index	x	x	x
Details	x	x	x
Create	x		
Edit	x		
Delete	x		

LessonViews	HR/Admin	Manager	Employee
Index	x	x	x
Details	x	x	x - only theirs
Create	x		
Edit	x		
Delete	x		

User Details	HR/Admin	Manager	Employee
Index	x	x	
Details	x	x	
Create	x		
Edit	x		
Delete	x		

Database Diagram/LMSProjectModel.edmx

Embedded YouTube Videos

```html
<div >
    <iframe class="lessonVideos" src="https://www.youtube.com/embed/@Model.VideoURL" frameborder="0"
      allow="accelerometer; autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
</div>
```

Sending email once course is completed

```csharp
Courses tCourse = lesson.Course;
int tcID = lesson.CourseID;
int thisCount = tCourse.Lessons.Count();
//tCourse.Lessons.Count();

int thisCourseCount = (from x in db.LessonViews
                where x.UserID == userID &&
                x.Lessons.CourseID == tcID
                select x).Count();

bool userCompletedAlready = db.CourseCompletions.Where(uc => uc.UserID == userID && uc.CourseID == tcID).Count() > 0;

if (!userCompletedAlready && thisCourseCount >= thisCount)
{
    CourseCompletion cc = new CourseCompletion();
    cc.UserID = userID;
    cc.CourseID = tcID;
    cc.DateCompleted = DateTime.Now;

    db.CourseCompletions.Add(cc);
    db.SaveChanges();

    //current user details

    var currentUserDeets = db.UserDetails.Where(ud => ud.UserID == userID).Single(); ;

    //CourseCompletion cce = db.CourseCompletions.Where(x => x.CourseCompletionID == completeID).Single();
    string body = $"{currentUserDeets.FirstName} {currentUserDeets.LastName} has completed course {cc.Course.CourseName} as of {cc.DateCompleted}.";
    MailMessage mm = new MailMessage("postmaster@devmeister.net", "tlesmeister525@gmail.com", currentUserDeets.FirstName + " " + currentUserDeets.LastName + " has completed a course!", body);

    SmtpClient client = new SmtpClient("mail.devmeister.net");
    client.Credentials = new NetworkCredential("postmaster@devmeister.net", "YourPasswordGoesHere");
    using (client)
    {
        client.Send(mm);
    }

    return View(lesson);
}
```

Hiding buttons from unauthorized users and making sure users have the correct permissions
-Restricting access to seeing the buttons based on Role

```csharp
@if (User.IsInRole("Admin"))
{
    <td>
        <button>@Html.ActionLink("Edit", "Edit", new { id = item.CourseCompletionID })</button>
        <button>@Html.ActionLink("Details", "Details", new { id = item.CourseCompletionID })</button>
        <button>@Html.ActionLink("Delete", "Delete", new { id = item.CourseCompletionID })</button>
    </td>
}
@if (User.IsInRole("Manager"))
{
    <td>
        <button>@Html.ActionLink("Details", "Details", new { id = item.CourseCompletionID })</button>
    </td>
}
```

-Restricting CRUD functionality based on role – (Few Examples)

```csharp
[Authorize(Roles = "Admin,Manager,Employee")]  [Authorize(Roles = "Admin,Manager")]  [Authorize(Roles = "Admin")]
// GET: CourseCompletions                       // GET: CourseCompletions/Details/5   // GET: CourseCompletions/Delete/5

public ActionResult Index()                      public ActionResult Details(int? id) public ActionResult Delete(int? id)
```

On LessonViews, and CourseCompletions changed User ID display to their First and Last name

```html
<td>
    @*@Html.DisplayFor(modelItem => item.UserID)*@
    @Html.DisplayFor(modelItem => item.AspNetUser.UserDetail.FirstName)
    @Html.DisplayFor(modelItem => item.AspNetUser.UserDetail.LastName)
</td>
```

Tasha Lesmeister

tlesmeister525@gmail.com / devmeister.net / in

Full-Stack Developer / Systems and Security Administrator

QUALIFICATIONS

- Featured as student of the month through Centriq for the month of October 2019.
- Driven professional with a dual skillset in IT administration and web development.
- Experienced in troubleshooting, effective communication, and customer support.
- Certifications:
  - CompTIA: A+ and Security+
  - Microsoft Technology Associate (MTA): Networking Fundamentals

TECHNICAL SKILLS

Development:
Front End: HTML5 | CSS3 | JavaScript | jQuery | jQuery UI | Mobile Web Development | Bootstrap | ReactJS
Middle Tier: Visual Studio | C#.NET | ASP.NET | LINQ | MVC (One-Tier, Two-Tier, N-Tier) | Ajax | EF
Back End: ADO.NET | SQL | SQL Server | SSMSE | T-SQL

IT Administration:
Windows Server 2012 R2 | Windows Network Infrastructure | Active Directory | Group Policy Management
Windows 8.1 Client Computer Support and Domain Integration | Hyper-V Virtualization | PowerShell 4.0
TCP/IP | DHCP| WINS | DNS | IPSEC | IPv6 | Subnetting | Routing | NAT | ACL | VLAN | STP | TCP/IP |

INDEPENDENT DEVELOPMENT PROJECTS

- **Personal Site:** devmeister.net
- **Final Project:** Create 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.

EDUCATION

Full-Stack Web Developer Program | Centriq Training
July 2019 – Present | Kansas City, MO
Technical Competencies:

- MVC Framework
- Trouble Shooting & Debugging
- Source Control
- Agile/Scrum (Created Team Project)
- Website Deployment
- Pair Programming
- Code Review

IT Administrator Program | Centriq Training
Graduated 2016 | Leawood, KS

EXPERIENCE

IOC (Integrated Operations Center) Analyst II | Q2ebanking
September 2018 – June 2019 | Austin, TX

- Exposure to AWS technologies – adding users to groups.
- Ran queries in SSMS to fetch logs on security threats, and attacks.
- Demonstrated understanding of General Security Fundamentals, Network Systems, Firewalls, IDS/IPS Systems, End-point Security, and, Network Security and administration concepts, Windows & Linux Server Administration.
- Gained additional knowledge of threats, attacks, logs, OS and security technology (firewalls, anti-malware, proxies, etc.)
- Gained additional knowledge of Networking (including the OSI Model, TCP/IP, DNS, HTTP, SMTP), System Admin. and Security Architecture)

IT Support Technician | Q2ebanking
December 2017 – September 2018 | Austin, TX

- Provided excellent first contact customer service to our internal customers.
- Imaged, configured, tested, and distributed workstations to employees.
- Coordinated escalation and resolution of complex issues with the appropriate IT teams.
- Assigned appropriate permissions to users in Active Directory, JIRA, and Bitbucket.
- Performed regular file archival and data migrations as necessary.
- Performed responsibilities within established SOX and security compliance requirements.

Desktop Analyst | Farmers Insurance
October 2016 – December 2017 | Austin, TX

- Received approximately 50 inbound calls a day.
- Diagnosed and resolved web-based sales software issues within Internet Explorer.
- Utilized a knowledge-base and corporate chats to research problems.
- Learned about insurance, new systems, and procedural changes.

Service Desk Technician | The University of Kansas Hospital (PCM Resources)
May 2016 – August 2016 | Kansas City, KS

- Worked in Epic, Remedy, SCCM, Citrix, and Outlook.
- Assigned users and computers to proper groups in Active Directory.
- Assisted users with the installation, configuration, and ongoing usability of desktop computers, peripheral equipment, and software within established standards and guidelines.
- Demonstrated competence in compiling data to maintain inventory, purchasing, shipping, and other records.

Certified Nursing Assistant | Warrensburg Veterans Home
April 2013 – Jan 2016 | Warrensburg, MO

- Followed established infection control practices and emergency protocols.
- Assisted residents with ambulation, turning, and repositioning, along with a range of motion activities.
- Checked resident vital signs and collected and maintained records of fluid intake and output.
- Assisted residents with daily living; such as, feeding, bed making, and other related tasks.