

Lance Vogel

A.L.L.O



Learning Management System

September 11, 2020

About the Developer

My name is Lance Vogel and I chose to Centriq because I have wanted to make the transition to coding for many years. Computers are my life. I learned how to read and do math with the computer games Reader Rabbit and Math Blaster. There is rarely a day where I do not learn something new on the computer. When my brother-in-law Nathan recommended Centriq's coding program with its smaller classes and "no student left behind" method, I knew it was an opportunity I could not pass up. And after completing the Full Stack Developer track, I know I have made the right choice.

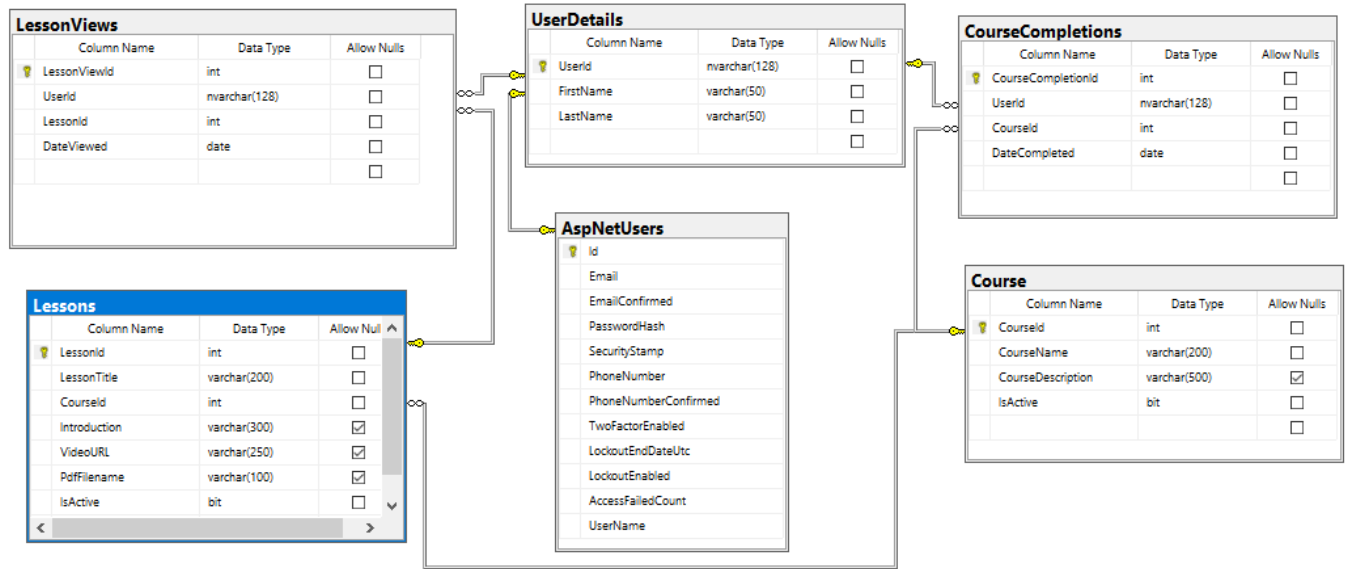
The creative possibilities are endless and I love that there is usually not just one way to solve a problem. With my English: Creative Writing background, I know the importance of getting more from less. This translates perfectly into coding where you want to get the most function from the cleanest code. Building your own website is amazing, but I also enjoy creating websites for others and trying to meet and exceed their expectations. A few weeks ago, I competed in the Full Stack Hack hackathon where teams built websites for real clients in 15 hour window. The satisfaction of coming together as a team and making the client happy was so awesome. And there is so much more to learn and experience.

My wife Nikki and I live in Holly Hills with our Pekingese, Taco, our Calico cat, Margo, and our Crested Gecko, Princess Buttercup. And we are expecting our first child, Wesley (we really really like *The Princess Bride*).

About A.L.L.O.

A.L.L.O. is my LMS (Learning Management System) Final Project. The objectives laid out in the brief wanted a website that could be accessed by HR, Management and Employees to present six courses which need to be completed by employees annually. Each Course has Lessons under it. When all Lessons are completed in a Course, the Course is completed. Managers need to be able to track Employee progress on their Lesson Views (completed Lessons) and Course Completions. Managers also receive an email whenever an employee has finished a course and annual training (six Course Completions). Employees need to be able to complete courses and keep track of their personal progress toward completing their annual training. Human Resources, which act as the Admin, have access to everything but deal primarily in Course and Lesson creation/editing.

ER Diagram



Use/Case

HR Admin

- Access to all views
- Access to all CRUD (Create, Read, Update and Delete) with emphasis put on Courses and Lessons
- Can upload PDF files and YouTube links to database for Lesson resources.
- While they can access the My Progress page, they will not see any data because an employee must be logged in to access data brought in through LINQ queries.

Manager

- Access to Employee Status page which displays ALL employee progress on Lessons and Courses sorted by last name.
- Access to Course page but not access Complete Course button.
- Receives emails when an employee completes a Course and when an employee has completed six courses, thereby completing annual training.

Employee

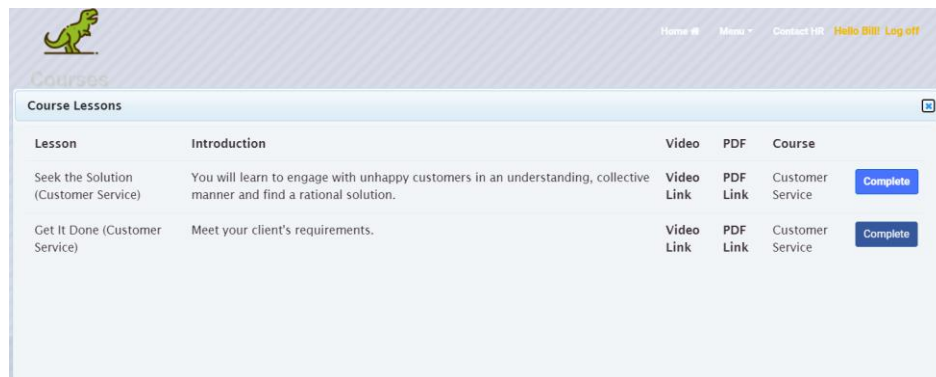
- Access to Course page and “Course Complete” button.

- Access to My Progress page which lists their person progress towards completing annual training.

Screenshots of UI



Home page. Sleek and simple for users to navigate. A.L.L.O's Allosaurus icon moves with sticky navigation bar. Clicking the lightbulb image brings user immediately to Courses.



AJAX Partial view for completing lessons. Instead of navigating to separate Lesson and Course Views, user can complete Lessons and Courses on the same page. PDF and Video Links open in new tabs and when the user clicks Complete, they complete the Lesson (a JavaScript alert notifies the user that the lesson is now completed). Their My Progress page displays all records. When all Lessons are completed under a Course, the Course is listed as completed.

Code Snippet

This LessonComplete Action in my CourseController is the bread and butter of my application. With one click of the “Course Complete”, which is only visible to employees, the program uses the currently logged in employee (userID) and finds out whether they have already viewed the Lesson or not. If they have, it is not records in LessonViews. If they haven’t a new LessonView is added.

```
var employeeviewedlessons = 0;

foreach (var lessonview in db.LessonViews.Where(l => l.UserId == userID))
{
    foreach (var lessonitem in courselesson)
    {
        if (lessonview.LessonId == lessonitem)
        {
            employeeviewedlessons++;
        }
    }
}

foreach (var comp in coursecompleted)
{
    if (comp.CourseId == lesson.CourseId)
        coursecomplete = true;
}

if (employeeviewedlessons == totallesson && coursecomplete == false)
{
    CourseCompletion cc = new CourseCompletion();
    cc.DateCompleted = DateTime.Now;
    cc.UserId = userID;
}
```

It then finds whether all lessons have been viewed or not. If they have been, a new entry for CourseCompletions is made and an email is sent to the manager. If a user accumulates six completed courses, another email is sent to the manager notifying them of the completion of annual for an employee. A big domino effect done with just one click of a button.

Workflow Process

I like to write my objectives down from highest priority to lowest. I also separate logistical objectives from styling objectives. If I hit a wall with a tough logistical problem, I will knock out some CSS so my mind does not feel stuck. I keep most of my notes on OneNote but scratching off objectives in pen on a notepad does feel really good. Coffee is also a staple of my developing process.

Lance Vogel

FULL-STACK DEVELOPER

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www.lancevogel.com

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

DEVELOPMENT PROJECTS

- **Portfolio Site:** www.lancevogel.com
- **A.L.L.O:** Learning Management System application where HR, Managers and Employees can access and monitor annual employee training. Employees complete lessons and courses. Progress is saved so Managers can view annual training progress and receive automatic email confirmation of employee completion. All of this is done with one click of a button.
- **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.
- **Dungeon Application:** Created a multiple-ending adventure game in C# where players can choose between three characters to solve riddles and battle enemies.
- **Full Stack Hack 2020:** Participated in a hackathon where our teams met with a client and built a website to their requirements within 15 hours. Implemented GitHub.

EDUCATION

CENTRIQ TRAINING – ST. LOUIS, MO

September 2020

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

Bachelor of Arts, English – Creative Writing

May 2011

Minor: Philosophy

Webster University, St. Louis MO

PROFESSIONAL EXPERIENCE

Courier

April 2016 – May 2020

FedEx Express, St. Louis, MO

- Pick up and protect various business goods and products and maintain a strong relationship between FedEx and the customer. Received Safe Driver Award every year.

Licensed Sales Representative

February 2014 – April 2016

American Family Insurance, St. Louis, MO

- Set up appointments with clients and assisted them with their insurance needs.