JOB BOARD WEB APP

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September 10, 2020

Job Board -- Centriq Final Project

ABOUT ME:

Making a JobBoard Web App has shown me a lot of my strengths and areas I need to improve in such as the importance of taking time to plan out my actions. I need to improve myself in the planning stages of the development, for instance. There were several occasions throughout the project where I realized I wanted a different functionality or an additional one, but because of how I set up the Database it would have meant scrapping lots of material and starting from scratch.

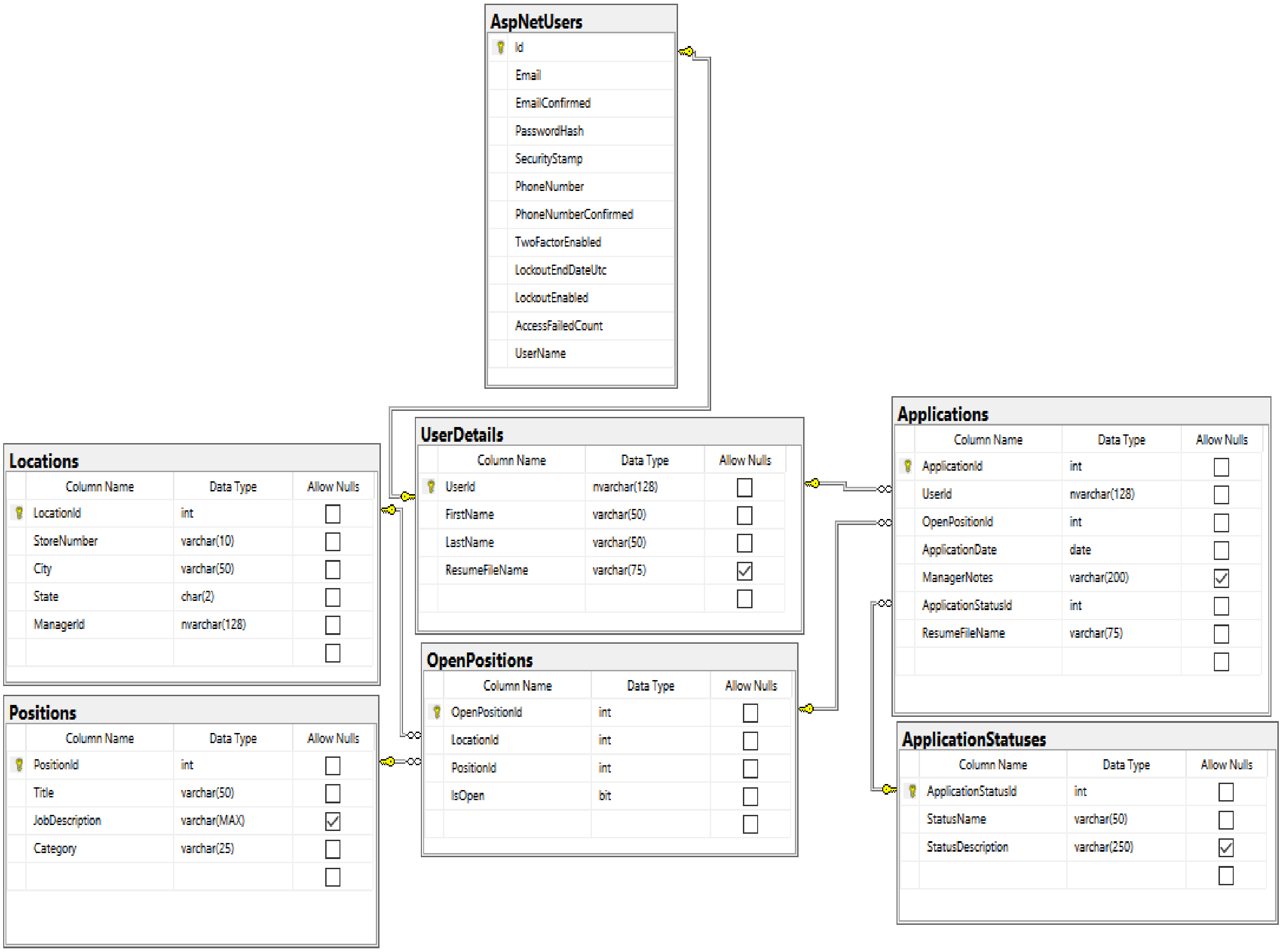
I also need to improve my time management and make better decisions regarding when I take my breaks. Time management and regulating when I need to have a break was often the difference between finishing functions of the app quickly and easily or moving at a sluggish pace. So, knowing how to regulate my workflow is something that I need to improve on in order to maximize my efficiency.

All that being said, I enjoyed my time working on the controllers and visualizing the logic working behind the scenes. I always feel as if I am working on a puzzle or riddle when trying to map out the functionality of the Controllers in C# and its been the work I did on them that I enjoyed the most. Although, while on the topic of my favorite aspects of coding I would be amiss if I didn’t mention that I would have liked to use more React.js and API’s. I wish I could have been more adept with using React.js and API’s so that I could integrate them into my project; however, those were unfortunately the parts of the track that I received the least experience in. Had I had more experience working with API’s, for example, I would have used an API to retrieve all the information I needed for the project instead of the hard connection I am currently using. Being more familiar with API’s would have also allowed me to use React.js more often in my project, but, unfortunately, I have even less experience integrating React.js into my apps. All in all, I would ask for more time to work with API’s and React.js if I were to start this course over again.

Now, the main reason that I chose this project is because I knew it was probably going to be the most challenging project I could pick. I often learn best when thrown into the fire because that urgency sets in making me much more alert and aware of what it is I am doing. It was because of the roadblocks of this project that I was able to see what it was I needed to improve on as well as my familiarity with coding. While I do have most of the default functions of the project working as the instructors wanted them there are several things I would change for the better. For instance, I would add some AJAX (barring use of React) and use that in place of the one-click apply that is currently set-up for the project. My reasoning for that is because of its accessibility to users and its ability to review the information you are sending to your potential “employer”. As it is now the project will just take in the information you had put in under the assumption it is exactly how you want it and that all this information is up-to-date. I think having an AJAX form versus the current one-click apply would be a great improvement, but the project deadline is here and ultimately the client asked for this one-click apply.

CODE SYNOPSIS:

Below you can see my SQL data-tables and their relationships



AspNetUsers

🔑 Id
Email
EmailConfirmed
PasswordHash
SecurityStamp
PhoneNumber
PhoneNumberConfirmed
TwoFactorEnabled
LockoutEndDateUtc
LockoutEnabled
AccessFailedCount
UserName

Locations

	Column Name	Data Type	Allow Nulls
🔑	LocationId	int	☐
	StoreNumber	varchar(10)	☐
	City	varchar(50)	☐
	State	char(2)	☐
	ManagerId	nvarchar(128)	☐
			☐

UserDetails

	Column Name	Data Type	Allow Nulls
🔑	UserId	nvarchar(128)	☐
	FirstName	varchar(50)	☐
	LastName	varchar(50)	☐
	ResumeFileName	varchar(75)	☑
			☐

Applications

	Column Name	Data Type	Allow Nulls
🔑	ApplicationId	int	☐
	UserId	nvarchar(128)	☐
	OpenPositionId	int	☐
	ApplicationDate	date	☐
	ManagerNotes	varchar(200)	☑
	ApplicationStatusId	int	☐
	ResumeFileName	varchar(75)	☐
			☐

Positions

	Column Name	Data Type	Allow Nulls
🔑	PositionId	int	☐
	Title	varchar(50)	☐
	JobDescription	varchar(MAX)	☑
	Category	varchar(25)	☐
			☐

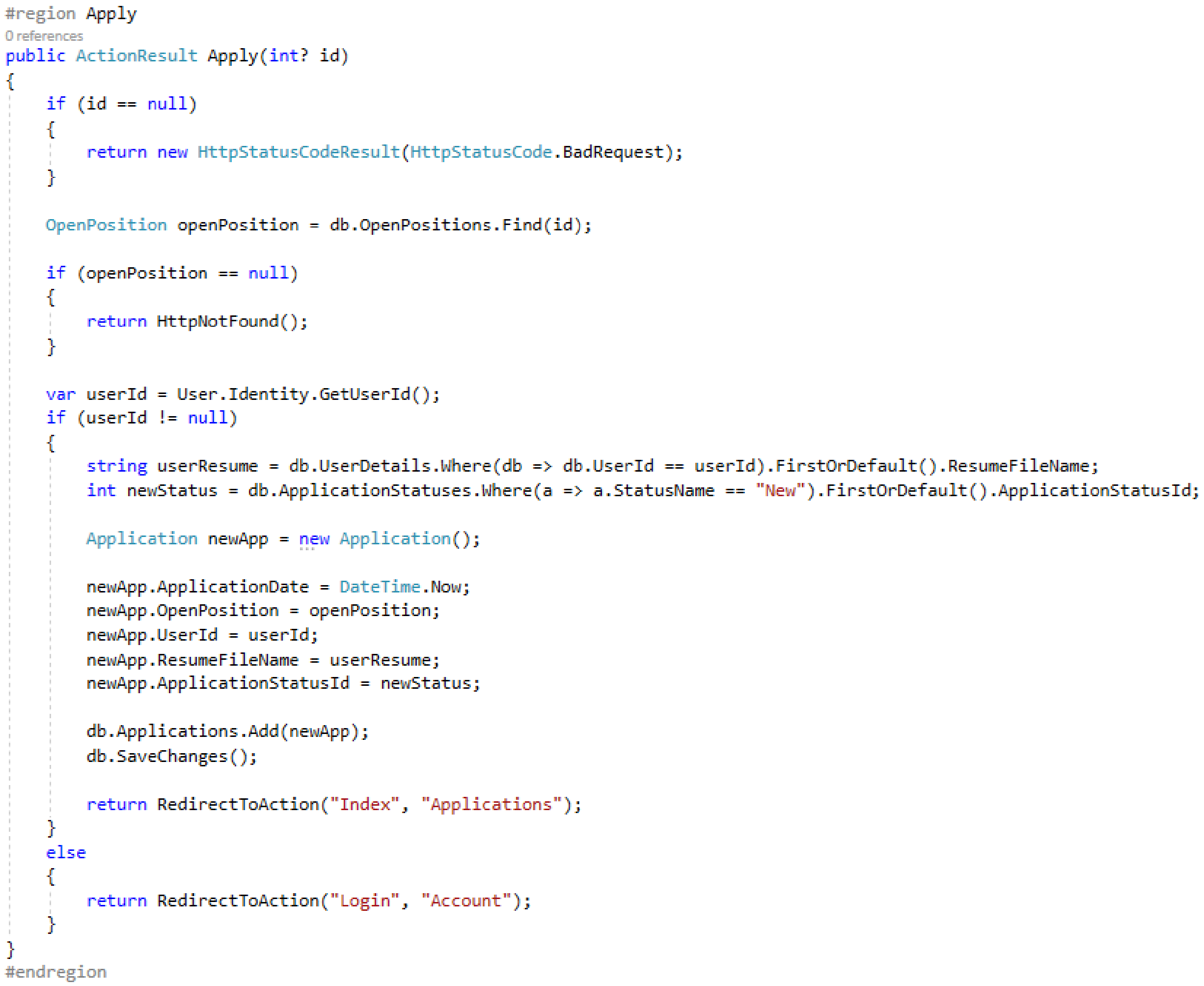
OpenPositions

	Column Name	Data Type	Allow Nulls
🔑	OpenPositionId	int	☐
	LocationId	int	☐
	PositionId	int	☐
	IsOpen	bit	☐
			☐

ApplicationStatuses

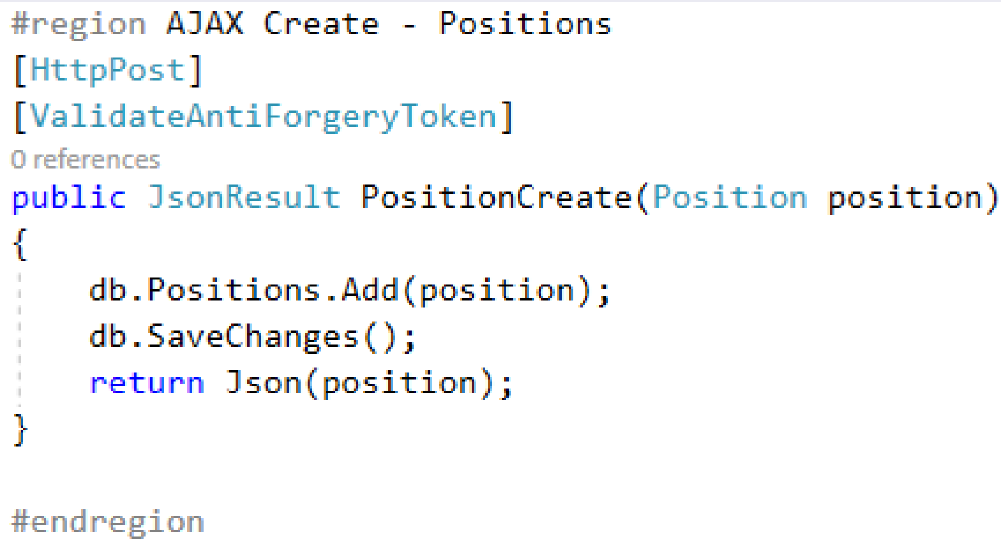
	Column Name	Data Type	Allow Nulls
🔑	ApplicationStatusId	int	☐
	StatusName	varchar(50)	☐
	StatusDescription	varchar(250)	☑
			☐

The next line is my “Apply” action that allowed for the one-click apply to work. This action was set up in the OpenPositions controller and view in order to properly identify, using ID’s, which job the User was applying to.



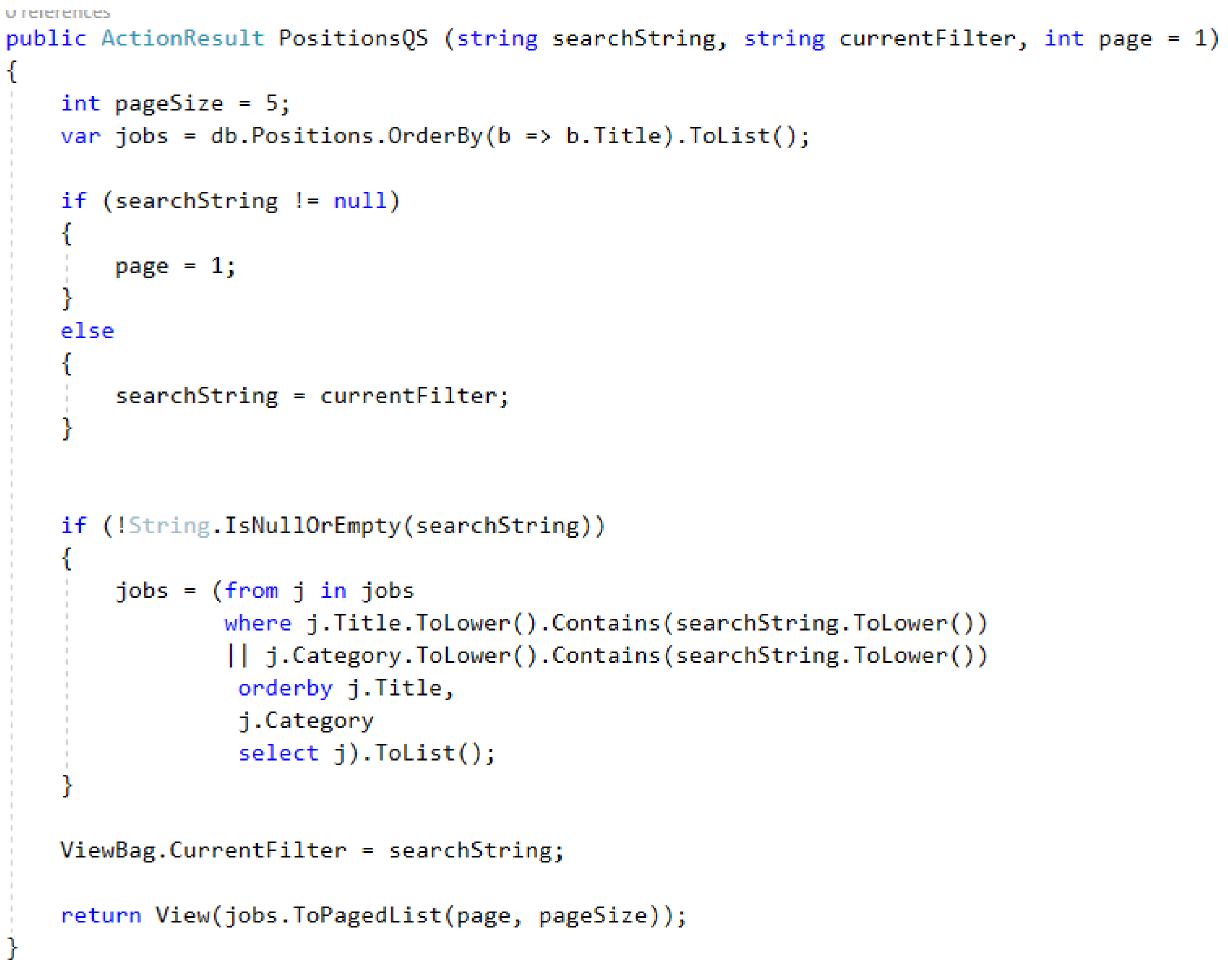
```
#region Apply
0 references
public ActionResult Apply(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }

    OpenPosition openPosition = db.OpenPositions.Find(id);

    if (openPosition == null)
    {
        return HttpNotFound();
    }

    var userId = User.Identity.GetUserId();
    if (userId != null)
    {
        string userResume = db.UserDetails.Where(db => db.UserId == userId).FirstOrDefault().ResumeFileName;
        int newStatus = db.ApplicationStatuses.Where(a => a.StatusName == "New").FirstOrDefault().ApplicationStatusId;

        Application newApp = new Application();

        newApp.ApplicationDate = DateTime.Now;
        newApp.OpenPosition = openPosition;
        newApp.UserId = userId;
        newApp.ResumeFileName = userResume;
        newApp.ApplicationStatusId = newStatus;

        db.Applications.Add(newApp);
        db.SaveChanges();

        return RedirectToAction("Index", "Applications");
    }
    else
    {
        return RedirectToAction("Login", "Account");
    }
}
#endregion
```

Here is the AJAX create form that I added to the Positions view in order to make a more accessible app to any company executive who wants to create new positions in the company in a timely manner.



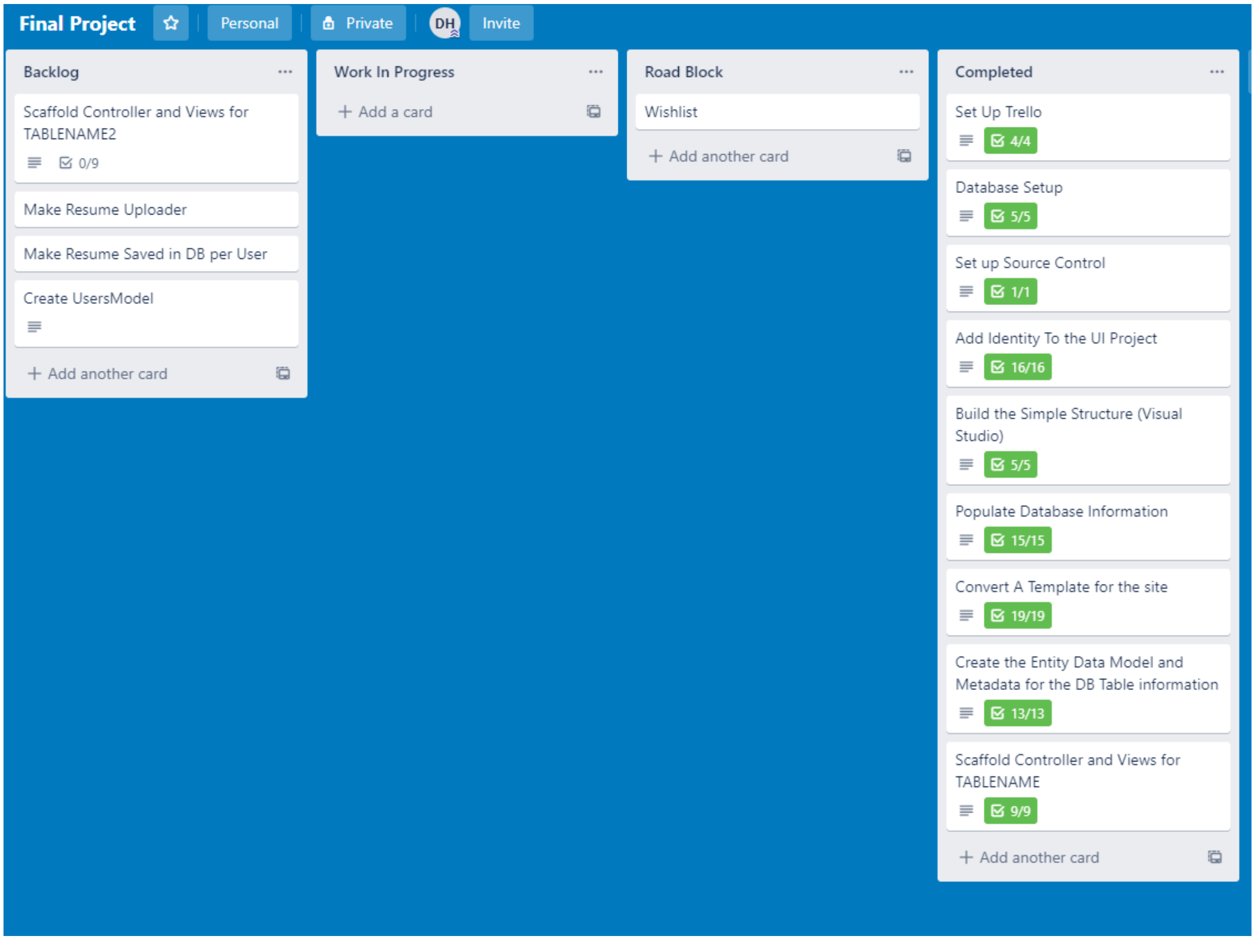
```
#region AJAX Create - Positions
[HttpPost]
[ValidateAntiForgeryToken]
0 references
public JsonResult PositionCreate(Position position)
{
    db.Positions.Add(position);
    db.SaveChanges();
    return Json(position);
}

#endregion
```

This is the search filter I had set-up for the positions view in the controller. This, as well as the AJAX create form above, uses a partial view of positions create that I created.



```
0 references
public ActionResult PositionsQS (string searchString, string currentFilter, int page = 1)
{
    int pageSize = 5;
    var jobs = db.Positions.OrderBy(b => b.Title).ToList();

    if (searchString != null)
    {
        page = 1;
    }
    else
    {
        searchString = currentFilter;
    }


    if (!String.IsNullOrEmpty(searchString))
    {
        jobs = (from j in jobs
                where j.Title.ToLower().Contains(searchString.ToLower())
                || j.Category.ToLower().Contains(searchString.ToLower())
                 orderby j.Title,
                 j.Category
                 select j).ToList();
    }

    ViewBag.CurrentFilter = searchString;

    return View(jobs.ToPagedList(page, pageSize));
}
```

I found that Trello helped with keeping track of my progress and preventing myself from getting lost in the process of working on the project. It wasn't uncommon for me to work on code for a couple hours and completely forget what I had planned to do after I finished what it was I worked on. So, being able to refer to Trello and make custom cards helped tremendously with keeping myself on track with the project's deadline.

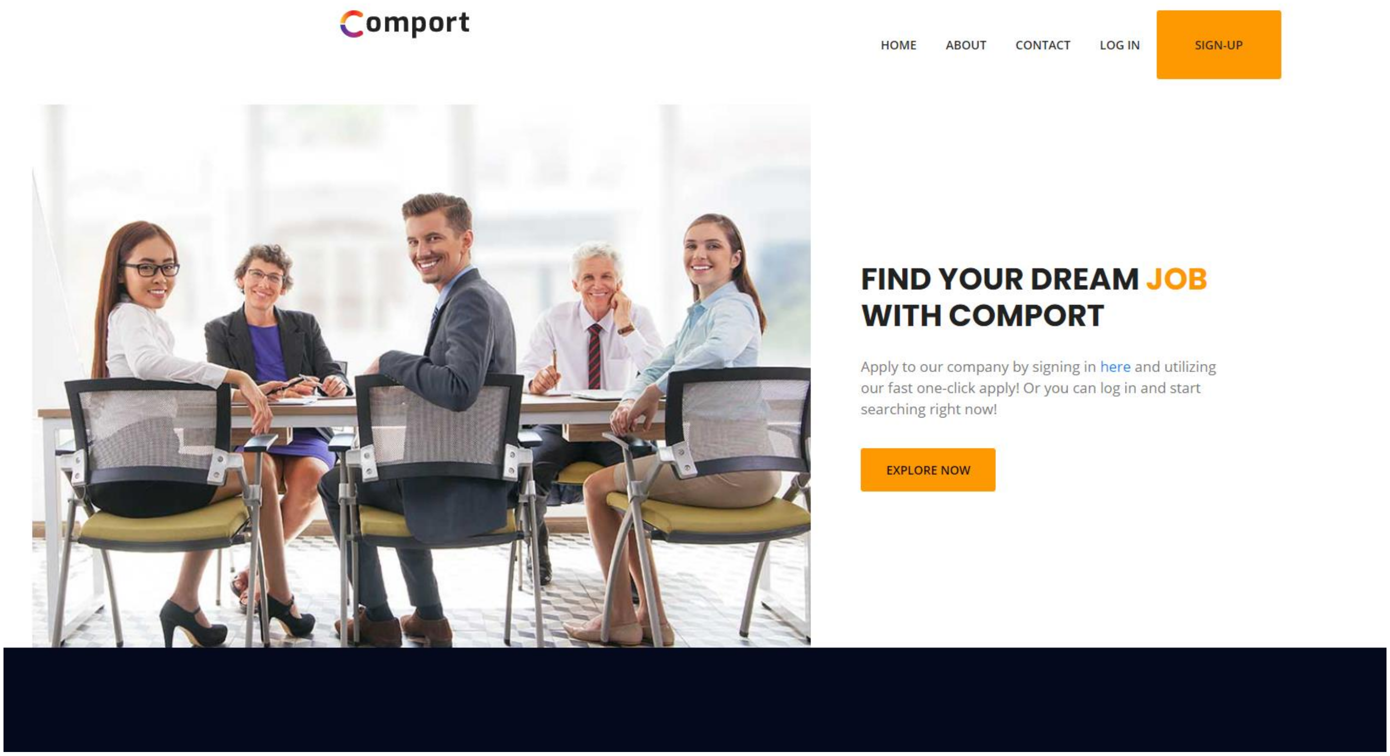


Backlog
- Scaffold Controller and Views for TABLENAME2 ☑ 0/9
- Make Resume Uploader
- Make Resume Saved in DB per User
- Create UsersModel

Work In Progress

Road Block
- Wishlist

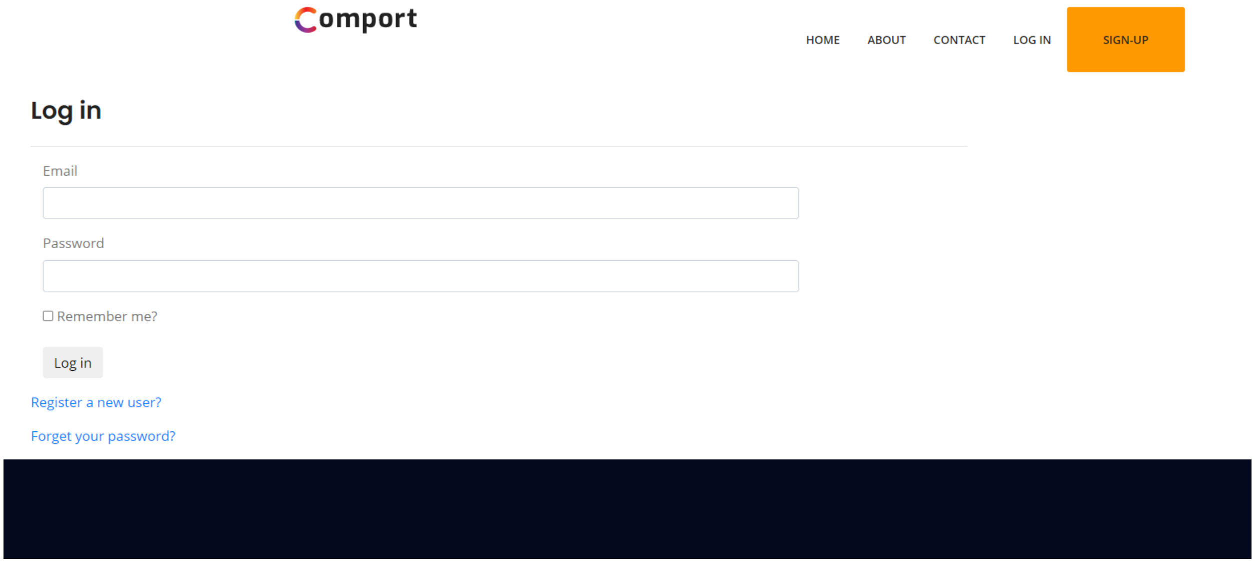
Completed
- Set Up Trello ☑ 4/4
- Database Setup ☑ 5/5
- Set up Source Control ☑ 1/1
- Add Identity To the UI Project ☑ 16/16
- Build the Simple Structure (Visual Studio) ☑ 5/5
- Populate Database Information ☑ 15/15
- Convert A Template for the site ☑ 19/19
- Create the Entity Data Model and Metadata for the DB Table information ☑ 13/13
- Scaffold Controller and Views for TABLENAME ☑ 9/9



FIND YOUR DREAM JOB WITH COMPORT

Apply to our company by signing in here and utilizing our fast one-click apply! Or you can log in and start searching right now!

Here is the User Interface of the web app home page. I chose this template due to it being centered and not so spread out. The necessary tabs you need to navigate to the most stand out thanks to the color scheme and because of their placement. The photo illustrates the idea that this is a professional site focused around a work environment which I found to be most suitable for a company website.



Log in

Email

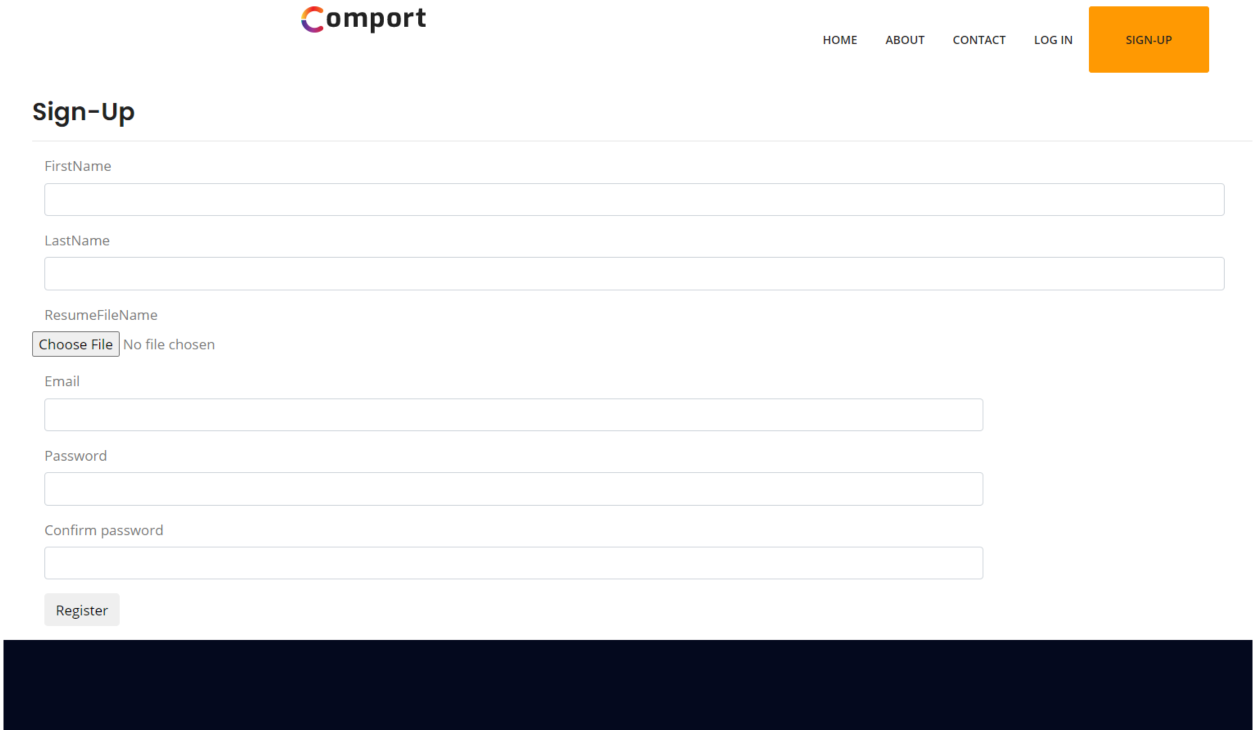
Password

□ Remember me?

Register a new user?

Forget your password?

Here you see the Login page and the same principles of the Home page at work. I wanted everything to be as centered as it could be while also preventing the page from having too much empty space. This page displays exactly what a User needs to see in order to progress without any filler and without having to look too hard for the necessary options they need.



Sign-Up

FirstName

LastName

ResumeFileName

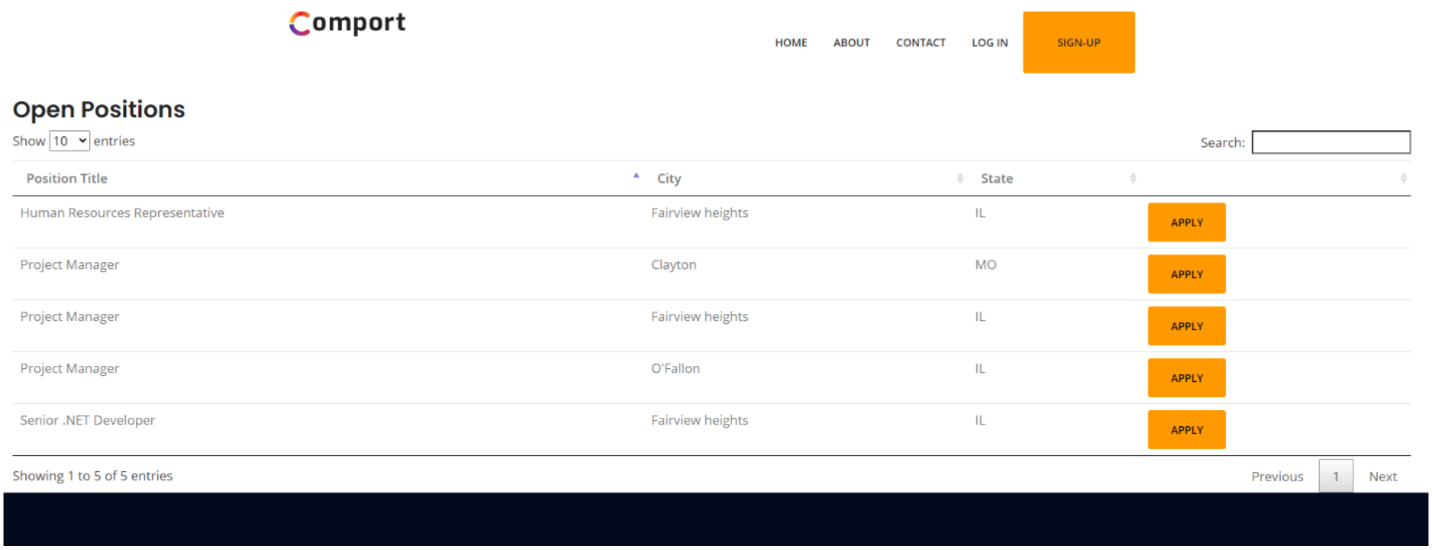
Choose File No file chosen

Email

Password

Confirm password

Here the sign-up/register page shares the same principle. Everything is right in plain sight and the User will know exactly what they need in order to register their account.



Open Positions

Show 10 entries

Search:

Position Title	City	State	
Human Resources Representative	Fairview heights	IL	APPLY
Project Manager	Clayton	MO	APPLY
Project Manager	Fairview heights	IL	APPLY
Project Manager	O'Fallon	IL	APPLY
Senior .NET Developer	Fairview heights	IL	APPLY

Showing 1 to 5 of 5 entries

This is one of the pages I worked the most in to make sure any user will have an optimal experience. You can see that each row is expressly defined with dividing lines and plenty of space for each column of information. The Title, City, State, and Apply button are all equally visible, none are very close to each other and leaves plenty of breathing room in order to distinguish each row easily. There is also a JavaScript search filter on the top right in order to condense exactly what it is the User wants to see so in the case of there being over 100 different positions in different cities/states any User can filter (in real time) exactly what positions or locations they want to see.

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SUMMARY

Full-stack developer, C#.NET

Analytical, driven web developer with passion for solving complex problems in creative and efficient ways. Solid experience managing diverse teams and driving teams toward unified goals. Enthusiastic about strengthening my development skills leading to more senior-level knowledge.

TECHNICAL SKILLS

FRONT END: HTML5, CSS3, ReactJS, JavaScript, jQuery, Bootstrap

BACK END: C#.NET, ASP.NET, LINQ, MVC Pattern, Entity Framework, ADO.NET, SQL

INDEPENDENT DEVELOPMENT PROJECTS

PERSONAL SITE: davidaveryhall.com

CARLOT: Created a VIN generator

GUESSWHO: Created a GuessWho game that allows for multiple players

JOBBOARD: Created a Company Website where a User signs in, uploads their Resumé, and then utilizes a one-click apply on any position they choose that is available at Admin/Management's discretion

EXPERIENCE

LUMIERE PLACE CASINO & HOTEL | MANAGER, MAINTENANCE ENGINEER
St. Louis, MO | April 2016 – Current

- Delivered comprehensive maintenance of all facilities, including electrical, HVAC, plumbing, pool, safety, and industrial machinery, following schematics, diagrams, and troubleshooting methods.
- Supervised and trained team of 5 technicians.
- Partnered with HR to create and deliver periodic safety trainings to staff (50+ people).
- Managed budget and maintained vendor relationships.
- Defined and implemented strategies to enhance equipment reliability, implement cost-savings equipment and improve workplace and guest safety

ABERCROMBIE & FITCH | ASSISTANT STORE MANAGER
Fairview Heights, IL | December 2015 – April 2016

- Revenue and inventory management; Crew management

EDUCATION

FULL-STACK WEB DEVELOPER PROGRAM
CENTRIQ TRAINING | St. Louis | Sept 2020
MVC Framework, Trouble Shooting & Debugging
Source Control, Agile/Scrum, Website Deployment
Pair Programming, Code Review, Entity Framework

BACHELOR OF SCIENCE, PHYSICS
Saint Louis University | St. Louis | MAY 2018