

Sarah Ledford

Jobs Ahoy – Job Board

Hi! My name is Sarah Ledford. As I was brainstorming and mulling over the different options for final project – job board, learning management system, or reservation system – I was struck by a question: what would it look like if pirates had their own internal job board? And so, Jobs Ahoy was created. This project is my take on the idea of a job board for pirates, and I had so much fun creating it.

My favorite part of programming, and the main reason why I decided to pursue it as a career, is the creativity of it. I love not only the cosmetic creativity, but the logic and problem solving that is integral in the entire programming process. The satisfaction that comes from working through a problem, reaching a solution, and creating a useful and well-crafted product at the same time is the drive that pushes me to further learning every single day.

Requirements

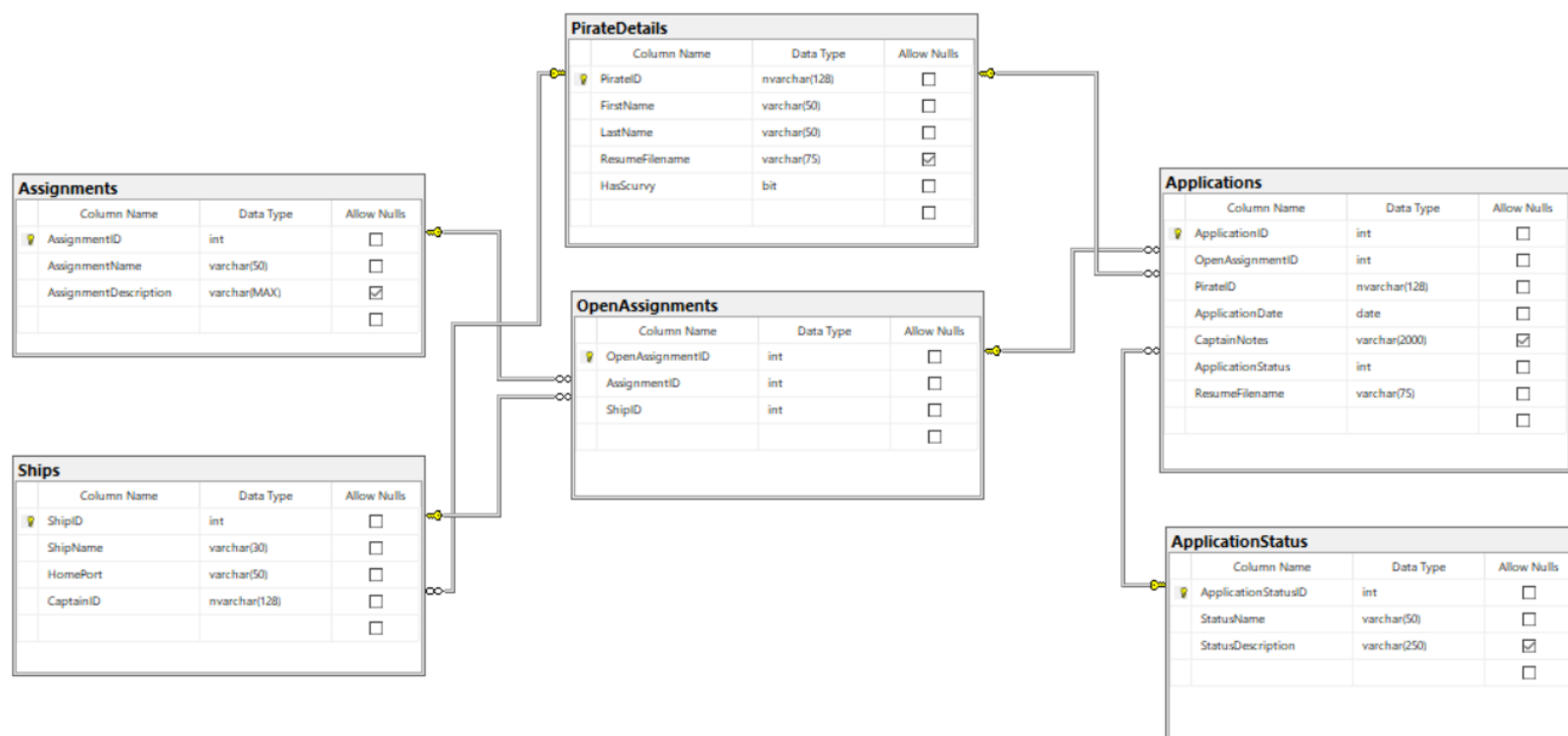
The objective is to find a way to share job openings easily between all their locations across the United States. The system needs to allow managers to post openings while also allowing employees to create an account, upload a resume and simply apply for open positions. Manager should be able to view applications for their location and employees should be able to view the status of their applications.

Overview

- Create an application to show job openings across the world for one company, accessible only internally by current employees
- Employees must be able to register, add a resume, apply to openings, and view the status of their applications
- Managers must be able to add, edit, remove openings for their location, as well as view and approve/deny applications to their location
- Responsive on mobile devices
- Schema is provided, must build database off of it
- Application process should be a one-click solution
- Individual users with login capabilities, ASP.Net MVC application technology, CRUD functionality for the job opening database

Identity Matrix & Schema:

Application Statuses				Assignments			
	Pirate Lords	Captains	Crewmates		Pirate Lords	Captains	Crewmates
Index	x			Index	x		
Details	x			Details	x		
Create	x			Create	x		
Edit	x			Edit	x		
Delete	x			Delete	x		
Pirate Details				Ships			
	Pirate Lords	Captains	Crewmates		Pirate Lords	Captains	Crewmates
Index			x (their own, only)	Index	x		
Details			x (their own, only)	Details	x		
Create			x (their own, only)	Create	x		
Edit			x (their own, only)	Edit	x		
Delete			x (their own, only)	Delete			
Applications				Open Assignments			
	Pirate Lords	Captains	Crewmates		Pirate Lords	Captains	Crewmates
Index	x	x (for their location, only)	x (their own)	Index	x	x (for their location, only)	x
Details	x	x (for their location, only)	x (their own)	Details	x	x (for their location, only)	x
Create				Create	x	x (for their location, only)	
Edit	x (only notes and status)	x (for their location, only)		Edit	x	x (for their location, only)	
Delete				Delete	x	x (for their location, only)	



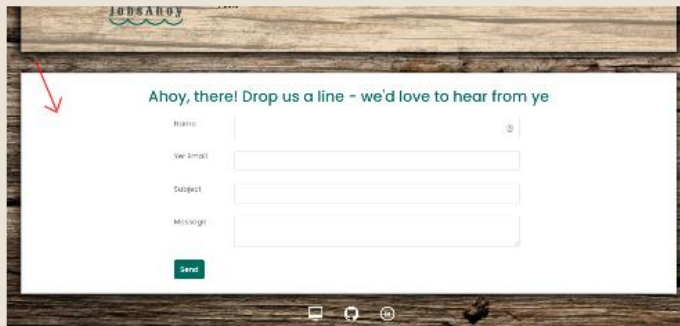
Unique Features

Home Page Background

One styling feature that I wanted to implement was having the information displayed in the body raised up on a white background on every page except for the home index. On the home index, I wanted to keep just the wood grain background.

To do this, I first set a background styling for the div surrounding the Render Body so it would look how I wanted on all of the pages except the home index:

```
1 #wrapper-div {
2   background-color: white;
3   box-shadow: 0 3px 20px 2px black;
4   padding: 2em;
5 }
6
```



Next, to ensure the CSS was not applied to the home index, I set up a Render Section which I put the home index content into, and I checked to see if it was null. If that section was null, I did nothing different, because that meant the user was not on the home index. If it is not null, though, I added a style attribute of “display: none” on the wrapper div, which would ensure the white background would not be visible.

```
<div id="MessageDisplay" class="row">
  <div class="col-md-10 col-md-offset-1" id="MessageContent">
    </div>
  </div>
  @RenderSection("homeIndex", false)
  @{ var styling = RenderSection("homeIndex", false) == null ? null : "display:none"; }
  <div id="wrapper-div" style="@styling">
    @RenderBody()
  </div>
```



Spinning Logo

Another fun addition that I really enjoyed implementing was the ship wheel in the logo. I created the logo through FreeLogoDesign.org, but in this case I split it into two pieces: the wheel, and the text that goes below the wheel. The reason for this was so I could add an effect to the wheel so that when the user hovers over it, it spins as if someone is steering the ship.

```
<a class="navbar-brand d-flex align-items-center fw-bolder fs-2 fst-italic" href="@Url.Action
("Index", "Home")">
  
  
</a>
.logoWheel {
  margin-top: -3.5em;
  transition: 5s;
  z-index: 200;
}

.logoWheel:hover {
  transform: rotate(360deg);
  transition: 3s;
}

.logoText {
  margin-left: -8.5em;
}
```

To the left, you can see the CSS that I used to line the image back up to appear whole, as well as the hover effects.

Got Scurvy?

A unique feature that I had a lot of fun with was the bit value in the Pirate Details table "HasScurvy?" When a pirate registers for an account, they have to inform Jobs Ahoy of whether or not they currently have scurvy. If they don't, there aren't any changes to the user experience. However, if they admit that they do have scurvy...

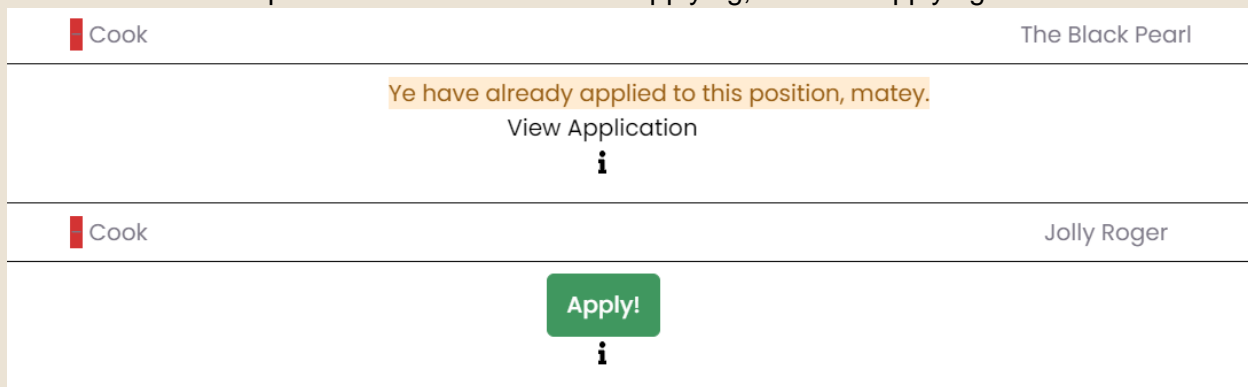


Their name turns green! I think there are so many neat and creative things

that could be done with this feature. For future additions, I would like to bring in an API that will give the scurvy-ridden user random fruit names on their details page, maybe even a small quiz they have to pass about foods to eat to get rid of scurvy before they can change their status to not having scurvy anymore.

One-Click Apply

One of the requirements of the application was that the employees could apply for positions with one click of a button. This was a unique feature, though surprisingly simple to implement. I also added the additional feature that prevents users from double-applying, instead supplying them with a link to view the application they've already sent in.



```

PirateJobBoardEntities db = new PirateJobBoardEntities();
string pirateId = User.Identity.GetUserId();
PirateDetail pirate = db.PirateDetails.Find(pirateId);
string resume = db.PirateDetails.Find(pirateId).ResumeFilename;
Application existingApplication = db.Applications.Where(x => x.PirateID == pirateId && x.OpenAssignmentID == item.OpenAssignmentID).FirstOrDefault();

if (pirate.ResumeFilename == "" && User.IsInRole("Crewmate"))
{
    <span>Ye need to upload a resume before you can apply!</span>
}

else if (existingApplication != null && User.IsInRole("Crewmate"))
{
    <span class="alert-warning">
        Ye have already applied to this position, matey. <br />
    </span>
    <a href="@Url.Action("Details", "Applications", new { id = existingApplication.ApplicationID })">View Application</a>
}

else if (pirate.ResumeFilename != "" && User.IsInRole("Crewmate"))
{
    <Html.ActionLink("Apply!", "OneClickApply", new { id = item.OpenAssignmentID }, htmlAttributes: new { @class = "btn btn-success apply" })>
    <br />
    <a href="@Url.Action("Details", "OpenAssignments", new { id = item.OpenAssignmentID })"><i class="fa fa-info mx-2"></i></a>

```

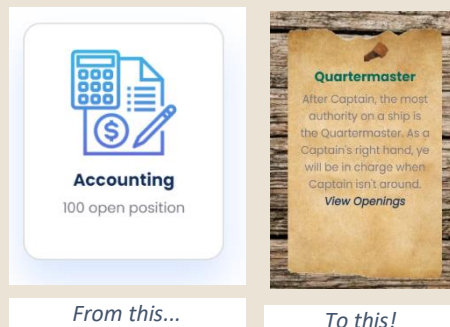
Controller logic for the one-click apply ActionResult (I also included a failsafe so that users are locked out of double-applying in both views and controller logic):

```
public ActionResult OneClickApply(int id)
{
    string userID = User.Identity.GetUserId();
    string resume = db.PirateDetails.Find(userID).ResumeFilename;
    Application existingApplication = db.Applications.Where(x => x.PirateID == userID && x.OpenAssignmentID == id).FirstOrDefault();
    if (existingApplication != null)
    {
        ViewBag.Message = "Ye have already applied to this position, matey. Nice try!";
        return RedirectToAction("Index");
    }

    Application app = new Application() { PirateID = userID, ApplicationDate = DateTime.Now, ApplicationStatus = 1, ResumeFilename = resume, CaptainNotes = "",
        OpenAssignmentID = id };
    db.Applications.Add(app);
    db.SaveChanges();
    return RedirectToAction("Index", "Applications");
}
```

Parchment Tile Display

On the home index is a section where an employee can click a tile to view openings in a certain position. I had a lot of fun with this piece, because I decided I wanted to make it appear like they were notes nailed into the wooden background. To do this, I edited a photo to have a nail in the top of it, and made that photo the background of the tiles that came with my template, and also added the additional feature that they rock to the side when they're hovered over!



Conclusion

I learned a lot in the process of creating this application. There were times that I was tempted to feel overwhelmed at the amount of work that I knew I needed to get done. But when I was prompted with those feelings, I learned that ensuring I was well-organized and that my Trello board was up-to-date helped to simplify my thought-process so that I knew I was on the right track, or what I needed to accomplish in order to get back on the right track. It's easy to get overwhelmed at the *idea* of how much needs to be done, but once it's all lined out it's a lot less overwhelming once things start being ticked off of the list of things that need to be done.

This project was a blast to create, and I value the lessons it taught me along the way that help make me a better programmer in the end. I can't wait to make future additions to flesh it out even further!

SARAH LEDFORD

Sarah_Ledford@outlook.com · 334-406-5254

LinkedIn: <https://www.linkedin.com/in/sarah-ledford/>

FULL STACK DEVELOPER

.NET Framework

Full Stack Web Application Design

C# Fundamentals

Database Management

Software Development Lifecycle

Agile Scrum Methodology

Continued Growth in IT Knowledge

TECHNICAL AND PROFESSIONAL SKILLS

Front End: HTML5, JavaScript, jQuery, jQueryUI, CSS3, Responsive/Mobile Web Development and Design, Bootstrap, ReactJS

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

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

Professional Skills: Troubleshooting, Critical Thinking, Communication, Project Management Fundamentals, Teamwork, Creative Problem Solving, Team Development, Project Planning, GitHub, Trello, Git, Client Communication, Hackathon

INDEPENDENT DEVELOPMENT PROJECTS

- Personal Site: www.sarahledford.com
- CentriqDev: Created a secure data-driven ASP.NET MVC application to serve as a centralized source of all resources, reference material, and examples given to students throughout the web development track at Centriq Training. Created in a team environment over a weekend during Centriq's Full Stack Hack.
- Threads of Magic: Created a website for a mock business from pure HTML and CSS, written from scratch. Site was created to the specifications of a mock wireframe.
- Alien: Containment: Created a pure C# game written from scratch. It is open-world, including a map, randomly generated enemies, and randomly generated chance of meeting enemies.
- Old School: Created a secure application for managing product data. Application is built to simulate an online vintage media storefront with a shopping cart. Employees have the ability to manage product, category and vendor data, and Admin has the ability to delete data as well.
- 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 employees, department data and all details relating to assigned hardware and software.

TECHNICAL TRAINING

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

Graduated 04/2021

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

WORK EXPERIENCE

Keyholder, Thrift Management Specialists
Overland Park, KS

01/2020 – 01/2021

- Worked with upper management to ensure a smooth-running store, which included handling up to 5 projects at one time.
- Assisted in every role in the store, cultivating teamwork and rapport with staff.
- Counted cash register drawers of up to \$1700 daily.
- Ensured store was reset at night and prepared for the next day.

Appointment Setter, Big 6 Media
Overland Park, KS

03/2019 – 04/2019

- Contacted 80 potential customers/day and scheduled phone meetings between them and the Sales point-of-contact.
- Built rapport and trust with the customers.
- Managed a shared calendar through Google Calendar to book appointments.

Server, Carrabba's Italian Grill
Overland Park, KS

11/2018 – 03/2019

- Utilized a POS system to input customer orders, balance when items would be pushed out to the table, and process payment.
- Patiently considered customer's needs, especially those with food allergies or special diets.
- Served up to 10 tables at once and streamlined processes for efficiency.
- Cleaned tables, floors, and serving area to ensure a clean and safe dining experience.

Store Associate, Forever 21
Overland Park, KS

06/2018 – 10/2018

- Maintained cleanliness and organization to accommodate for hundreds of daily customers.
- Assisted customers to ensure a satisfying shopping experience.

- Operated and troubleshooted the cash register POS system and kept a balanced cash drawer. Maintained a strict quota for credit card sign-ups in computer system and went beyond the quota, bringing the store up to the No. 1 in the region for sign-ups.

Transcriptionist, GMR Transcription Services,
Inc.

01/2018 – 06/2018

Remote

- Worked remotely, which required thorough professional communication through email and instant messaging in order to organize projects with management.
- Transcribed audio files of varying subjects and audio qualities into Word documents, formatted to the customer's requirements using specialized software.
- Completed and turned in projects by deadline while maintaining quality work.

Waitress, Cheeburger Cheeburger
Enterprise, AL

08/2013 – 10/2015

- Utilized POS system to input orders, manage online orders, and process payment.
- Ensured timely delivery of all customer requests for up to 10 tables at a time.
- Took care to make sure each order was entered, made, and delivered correctly.
- Ran the phones to take to-go orders, answer questions, and provide any additional information the customer may have required.