

Full-Stack Web Developer



Arianna Harrison

Kansas City Softball Academy

Reservation System | 12/09/2020

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About Me

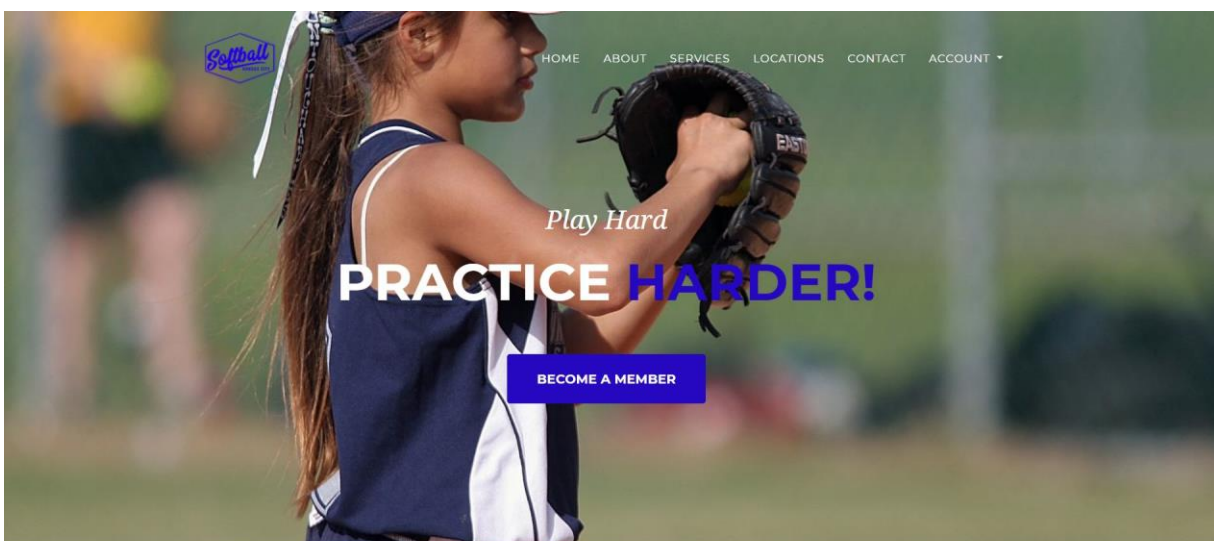
Hello, my name is Arianna Harrison! Earlier this year I graduated with an Associate of Arts degree in May. Before graduating, I was on and off about my future. I was not sure where I was headed, though I was always drawn to technology and what it can do. With that, my goal for my career was to be involved with computers and hardware someday and at some point. However, I did not know how to get there, where to go, or what to do. I felt college was not aiding in for what I wanted out of life. I knew I wanted to be successful, but college for me did not give me that confidence and I saw no signs of potential for my career path.

Thusly, I researched and comprehended how several college graduates in I.T. end up feeling as if they learned nothing. I figured that would be a waste of my years, so I took what I read as a sign and told myself I can find another route to get where I wanted. Next thing you know, my father discovered about Centriq Training and introduced me to it and there I was.

A couple of weeks after I got my AA degree, I quickly became invested into Centriq Training in their web development tract. To be honest, I never figured coding would be what I would do within technology, though now I enjoy it. I discovered a passion for coding, and I intend to learn additional languages and software to become further educated with programming. To conclude, Centriq has been wonderful and I am excited for what my future holds in the web development world.

About My Project

Kansas City Softball Academy is a secure data-driven application where coaches can register themselves, create a team or teams, and reserve a service at any location provided for their softball players to practice their skills at.



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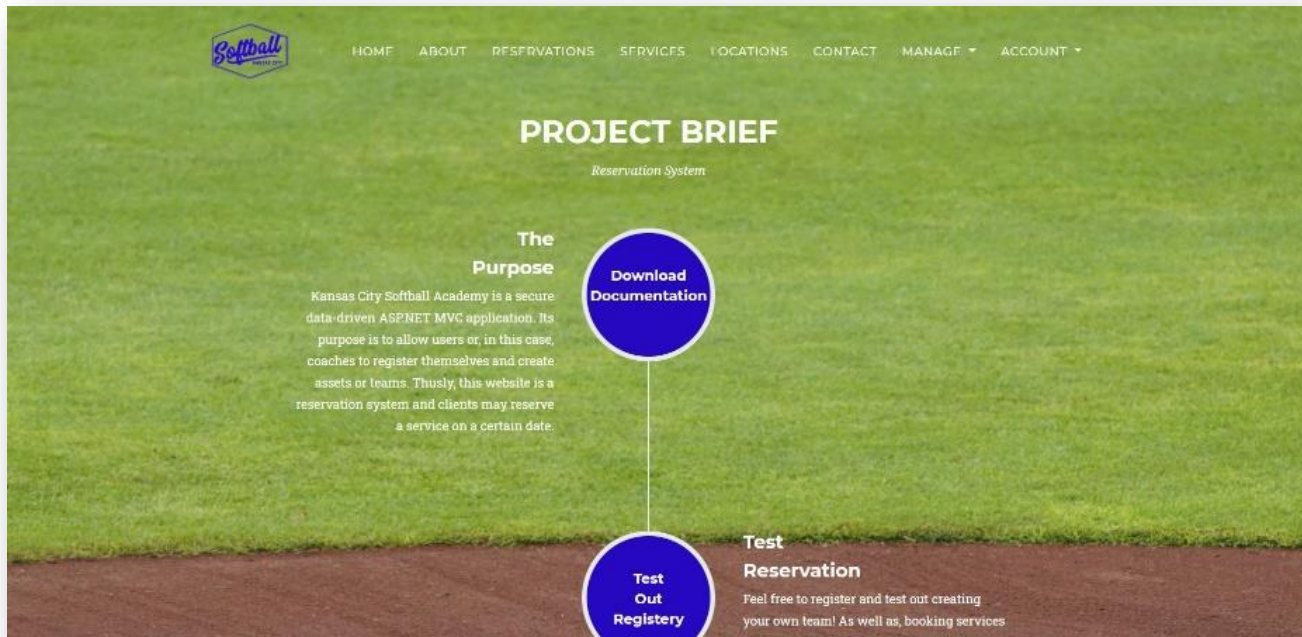


Developed by Arianna Harrison

Project Requirements

Objective

Construct an online application for a company that owns multiple locations and will permit user registration and reservations. In which, the user can reserve at a location but there are reservation limits implemented. Only the administrator can override this function and enter a reservation themselves.



Authorization

Admin

- Full CRUD functionality
- View all reservations
- Override the limits

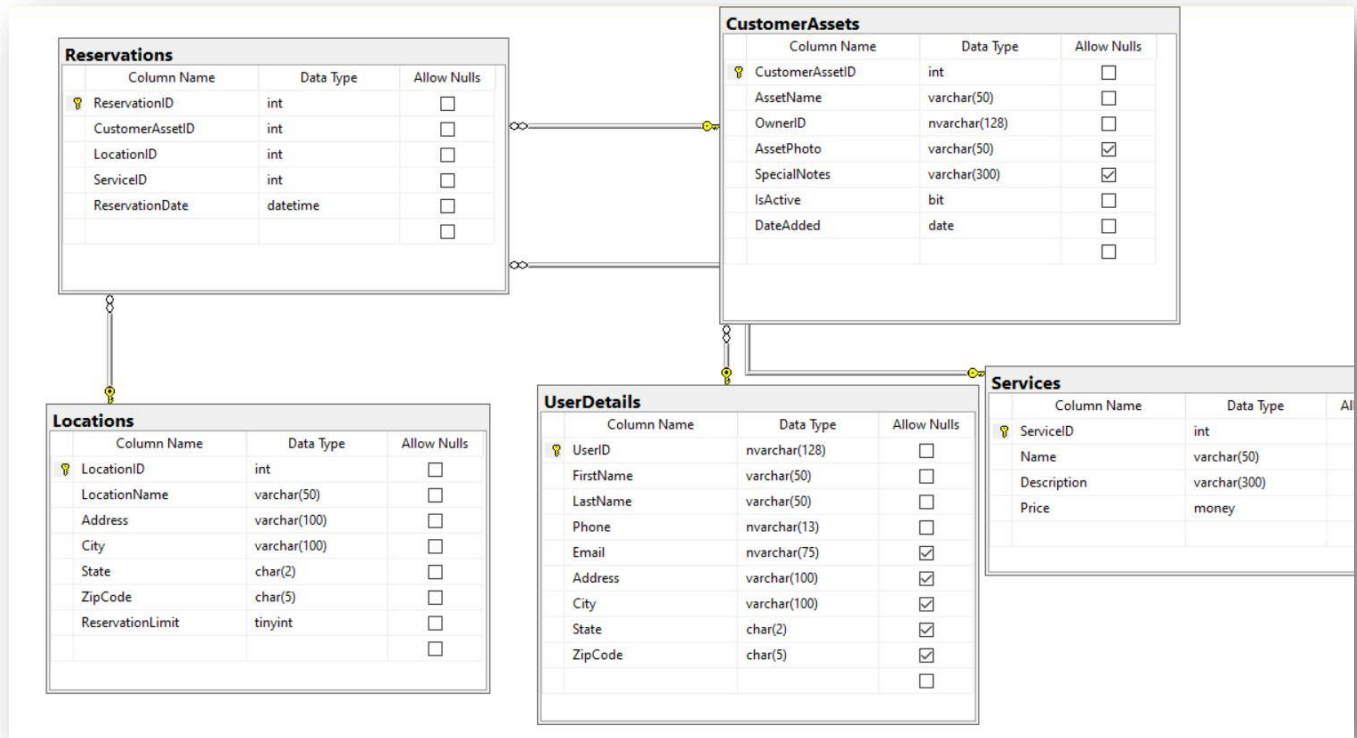
Employee

- View all reservations

User

- CRUD over their account
- Create a reservation
- Upload Image for account

ER Diagram - SQL Database Schema



Use/Case Diagram

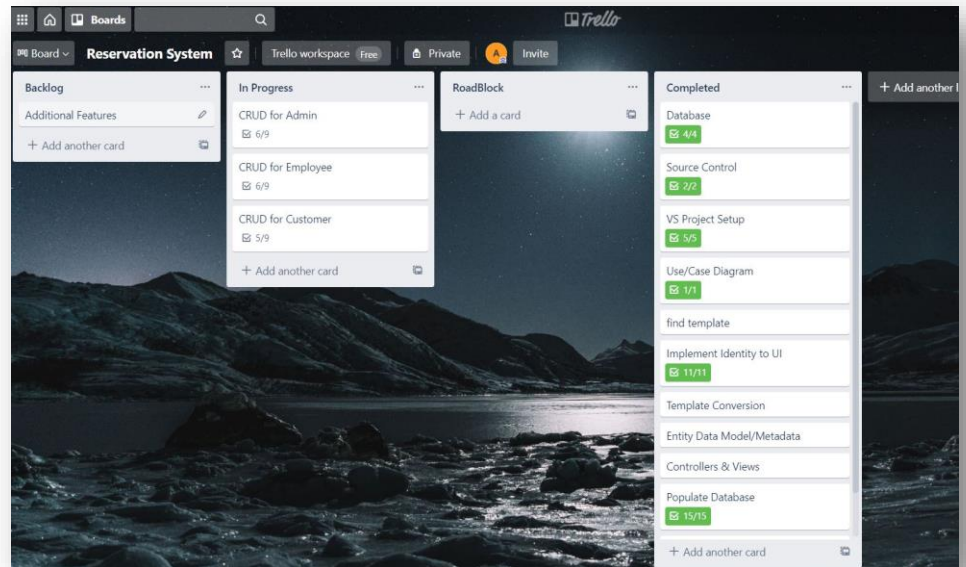
Reservations								Locations					
	Create	Read	Update	Delete					Create	Read	Update	Delete	
Admin	x	x	x	x	*override perk			Admin	x	x	x	x	
Employee		x						Employee		x			
Customer	x	x			*Create for their asset			Customer		x			
User Details								Customer Assets					
	Create	Read	Update	Delete					Create	Read	Update	Delete	
Admin	x	x	x	x				Admin	x	x	x	x	
Employee								Employee					
Customer	x	x	x	x	*their account			Customer	x	x	x	x	*their account
Services													
	Create	Read	Update	Delete									
Admin	x	x	x	x									
Employee		x											
Customer		x											

Workflow Process

Trello board was utilized for monitoring my workflow process.

I arranged out all the compartments for creating the application.

Operating with Trello assisted in keeping on track to know what was complete and what was next to fulfill.



Code Snippets

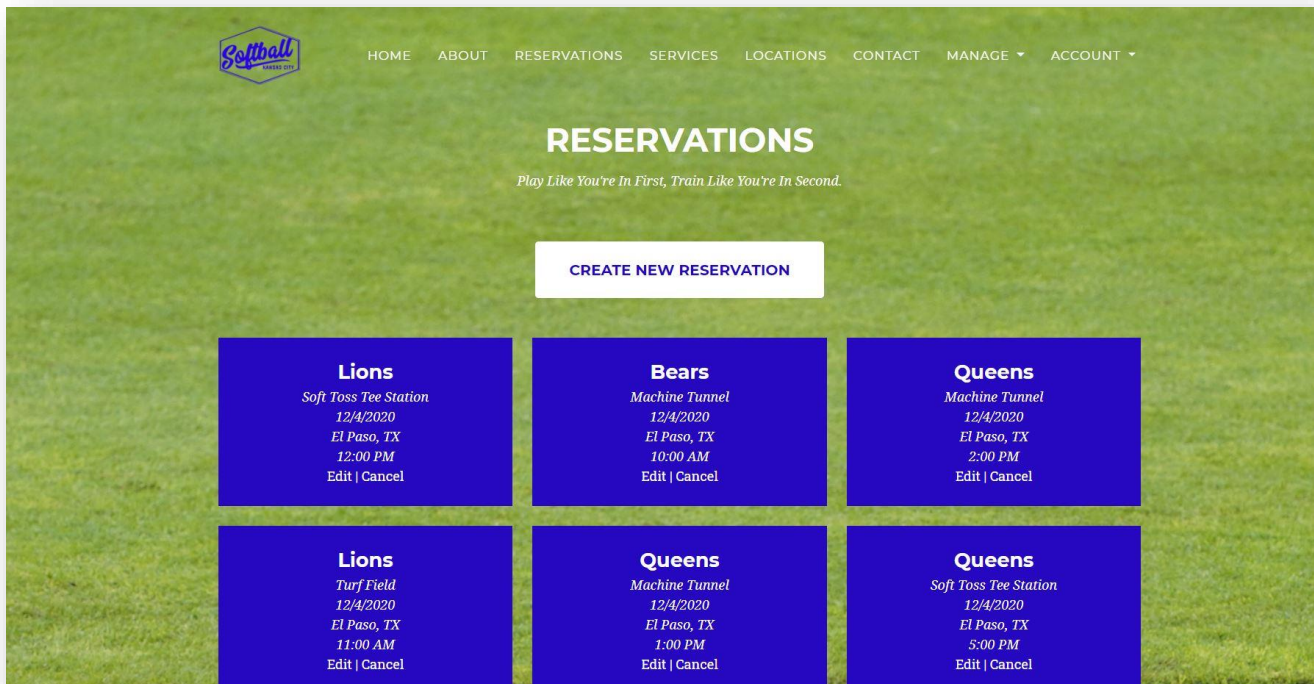
Reservations Create

Reservation limitation in Reservation controller exhibiting the authorization of allowing only a customer and admin to create a reservation. Also, the reservation limiting the specific user to not exceed the reservations for that date chose for that particular location. Throwing a ViewBag message warning the limit was reached. However, Admin can overpass that and proceed the reservation creation process.

```
105 [HttpPost]
106 [ValidateAntiForgeryToken]
107 [Authorize(Roles = "Admin, Customer")]
108 public ActionResult Create([Bind(Include = "ReservationID,CustomerAssetID,LocationID,ServiceID,ReservationDate,ReservationTime")] Reservation reservation)
109 {
110     if (ModelState.IsValid)
111     {
112         if (User.IsInRole("Customer"))
113         {
114             int limit = db.Locations.Where(l => l.LocationID == reservation.LocationID).Select(l => l.ReservationLimit).Single();
115             int numberOfRes = db.Reservations.Where(r => r.LocationID == reservation.LocationID && r.ReservationDate == reservation.ReservationDate).Count();
116             if (numberOfRes < limit)
117             {
118                 db.Reservations.Add(reservation);
119                 db.SaveChanges();
120                 return RedirectToAction("Index");
121             }
122             else
123             {
124                 ViewBag.LimitHit = $"Sorry reservation full, please choose another date or location!";
125             }
126         }
127         else
128         {
129             db.Reservations.Add(reservation);
130             db.SaveChanges();
131             return RedirectToAction("Index");
132         }
133     }
134 }
135
136
137
138 ViewBag.CustomerAssetID = new SelectList(db.CustomerAssets, "CustomerAssetID", "AssetName", reservation.CustomerAssetID);
139 ViewBag.LocationID = new SelectList(db.Locations, "LocationID", "City", reservation.LocationID);
140 ViewBag.ServiceID = new SelectList(db.Services, "ServiceID", "Name", reservation.ServiceID);
141 return View(reservation);
```


Reservations Index View

The reservations index view displays all the current registrations for any team created from any registered coach. If the view were under the ID of a user, it would solely show their own reservations that they created for their teams. The reservations are ordered by location for all user roles.



Navigation Bar

Here is a snippet of the nav bar located in the shared layout page. A few links are hidden for specific user roles. In Addition, applying dropdowns to be more user friendly for clients.

```
27 <!-- Navigation -->
28 <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
29   <div class="container">
30     <a class="navbar-brand" href="@Url.Action("Index", "Home")"></a>
31     <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle navigation">
32       Menu
33     </button>
34     <div class="collapse navbar-collapse" id="navbarResponsive">
35       <ul class="navbar-nav text-uppercase ml-auto">
36         <li class="nav-item"><a class="nav-link" href="@Url.Action("Index", "Home")">Home</a></li>
37         <li class="nav-item"><a class="nav-link" href="@Url.Action("About", "Home")">About</a></li>
38         <li class="nav-item"><a class="nav-link" href="@Url.Action("Index", "Reservations")">Reservations</a></li>
39         <li class="nav-item"><a class="nav-link" href="@Url.Action("Index", "Services")">Services</a></li>
40         <li class="nav-item"><a class="nav-link" href="@Url.Action("Index", "Locations")">Locations</a></li>
41         <li class="nav-item"><a class="nav-link" href="@Url.Action("Contact", "Home")">Contact</a></li>
42         <li class="dropdown nav-item">
43           <a class="dropdown-toggle nav-link" id="navbardropdown" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
44             Manage
45           </a>
46           <div class="dropdown-menu" aria-labelledby="navbardropdown">
47             <a class="dropdown-item" href="@Url.Action("Roles", "Index", "RolesAdmin", routeValues: null, htmlAttributes: new { @class = "dropdown-item" })">RolesAdmin</a>
48             <a class="dropdown-item" href="@Url.Action("Users", "Index", "UsersAdmin", routeValues: null, htmlAttributes: new { @class = "dropdown-item" })">UsersAdmin</a>
49             <a class="dropdown-item" href="@Url.Action("UserDetails", "Index", "UserDetails", routeValues: null, htmlAttributes: new { @class = "dropdown-item" })">UserDetails</a>
50             <a class="dropdown-item" href="@Url.Action("Assets", "Index", "CustomerAssets", routeValues: null, htmlAttributes: new { @class = "dropdown-item" })">CustomerAssets</a>
51           </div>
52         </li>
53       </ul>
54     </div>
55   </div>
56 </nav>
```

Arianna Harrison

FULL-STACK DEVELOPER

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SUMMARY OF QUALIFICATIONS

- Solid foundational knowledge of designing and developing full-stack web applications using .NET framework.
- Adapt quickly to changes and learn quickly of new technologies to ensure website optimization.
- Self-motivated, active listener, and creative developer who is eager to grow in a professional environment.

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

INDEPENDENT DEVELOPMENT PROJECTS

Personal Site: www.a-harrison.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.

TECHNICAL TRAINING AND EDUCATION

CENTRIQ TRAINING, Kansas City, MO

May 2020 – Present

Full-Stack Developer Program

Technical Competencies:

MVC Framework

Pair Programming

Trouble Shooting & Debugging

Code Review

Agile/Scrum (Created Team Project)

Professionalism, Teamwork, Problem Solving & Effective

Website Deployment

Communication

METROPOLITAN COMMUNITY COLLEGE, Independence, MO

September 2018 – May 2020

Associates in Arts, Honors

PROFESSIONAL EXPERIENCE

SCHULT INDUSTRIES, Blue Springs, MO

September 2018 – October 2019

Office Associate

Communicated effectively with customers professionally to provide information about the company.

Enhanced and maintained spreadsheets in Excel to track and chart information such as customer information.

Organized, stored, and retrieved files to improve daily operations for other office employees.