

Hotel Reservation System

Reservation System Project

Mack Jones | Full Stack Web Developer | December 14th, 2021

Introductions

What Is This?

This is the Documentation for my Final Project under Centriq's Full Stack Web Developer training program. This document will explain who I am, what my process was in making this application, and what I ended up with after two weeks of planning/outlining/coding.

About Me

Hi! My name is Mack Jones, and I am an aspiring Software Developer. I like to create things, whether it be writing things down on a sheet of paper or coding them in an application. It just feels good to create something of some use that someone will end up seeing/using. I chose technology/coding because it is an outlet where I can just go to work at creating whatever my brain is thinking of at the time. In terms of my time at Centriq, I feel like I have learned a lot about myself. Whether it be my work ethic, my way of approaching problems, or my learning style, I feel like I understand a lot more about myself as a Developer now that I have been through here. Though I do wish certain topics were covered more, such as JavaScript or diving more into a specific programming language, I do feel like I have a solid foundation to begin working/improving into the future.

Hotel Reservation System

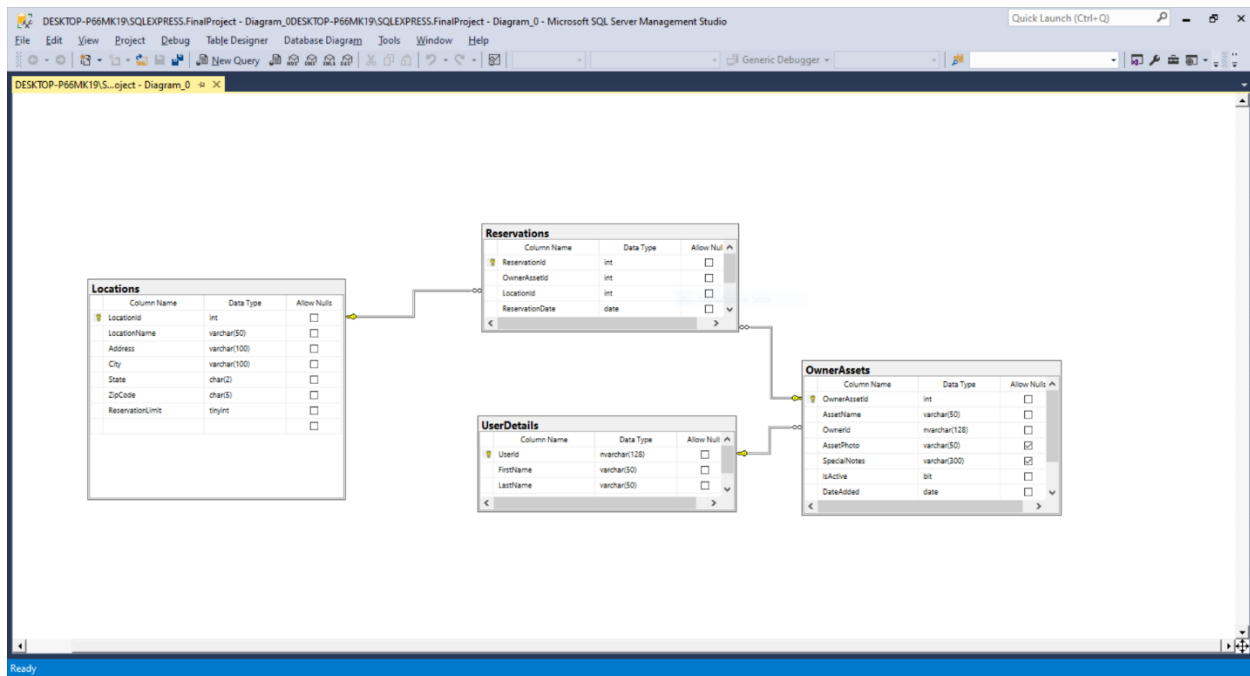
This is an extremely basic application that allows for a business to reserve hotels for their employees for business purposes, such as traveling for work. These are done through basic spreadsheets that are shown and updated real-time within the application. I chose this project because I wanted to challenge myself with problems I have not tackled before. I feel that this project's deceptively easy but difficult nature has also helped me learn a lot more than I would have otherwise with a bigger, but "more simplistic" project. I have certainly learned how to maximize my own productivity/development style through building out this application, and I consider that extremely valuable.

Project Outline

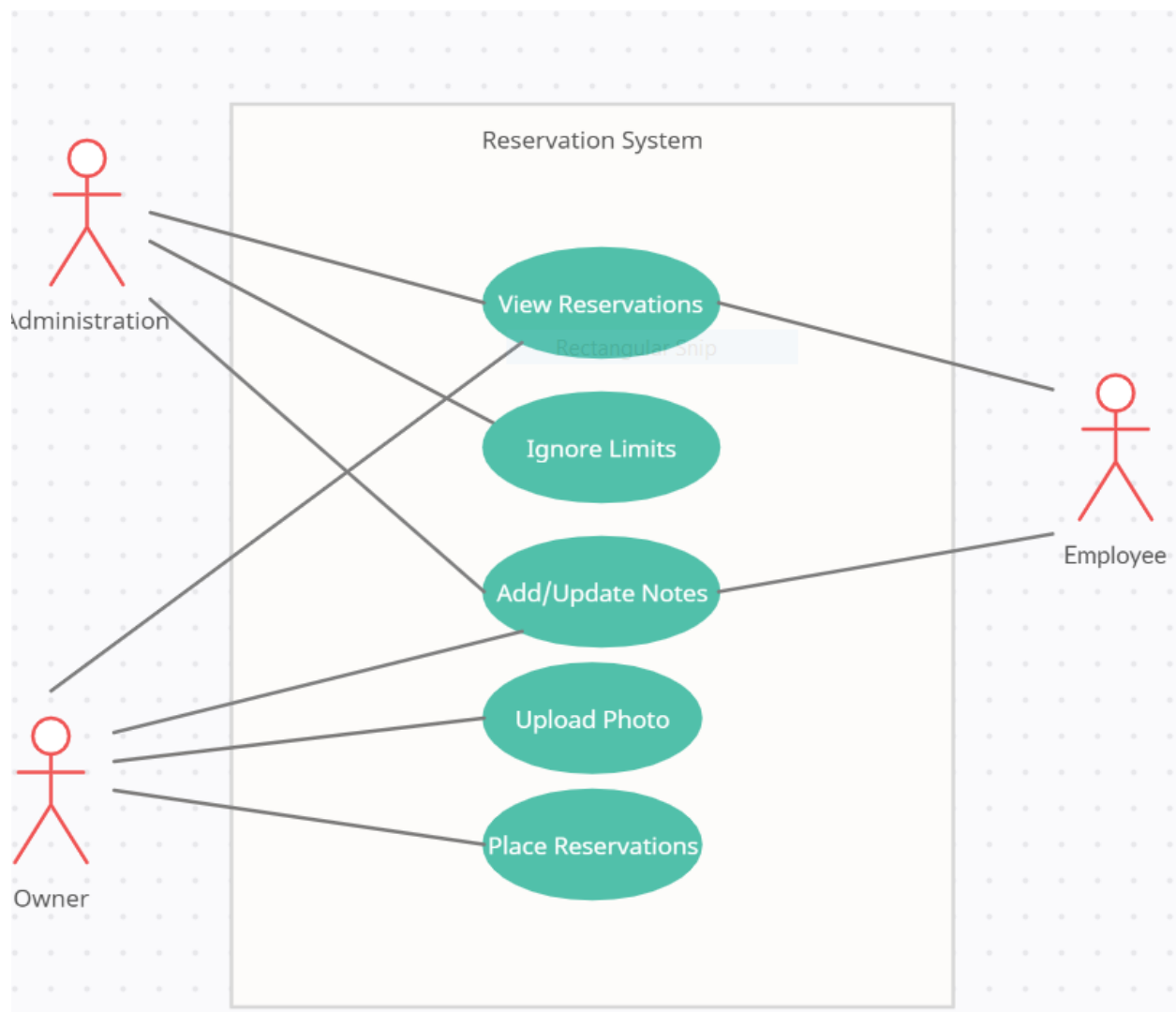
Project Requirements

- Application allows for registration of Clients and for the Clients themselves to be able to set reservations.
- Application allows Clients to schedule themselves at any location, and at any date.
 - If the limit at a specific location is hit, the reservation will not go through.
 - If the user is currently in an Administrator, the limit will be ignored and a reservation will still go through.
- Application allows Employees to view all reservations.
- Application allows Employees to edit reservations to add notes to them.
- Application allows Administrators to monitor/delete items in any of the tables.
- Application allows Owners to place reservations for each of their assets.
 - Photos can be uploaded for each of their assets respectively.
- Application allows Administrators to view the User Details of each registered User.
- A full database built out to support all of the above.

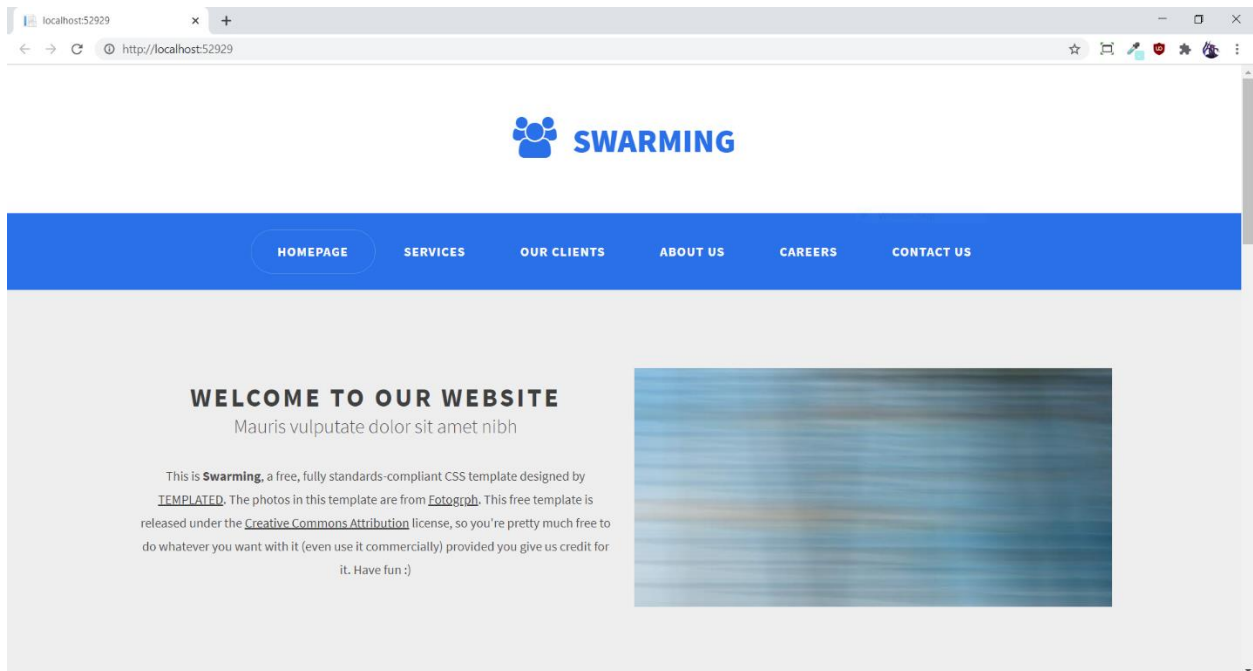
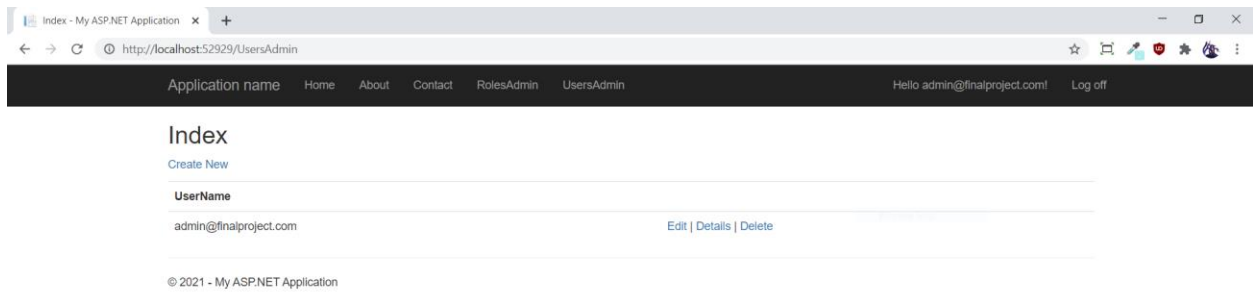
Initial Database Schema for the Application




Use-Case Diagram for the Application



General Screenshots of the UI over time



localhost:52929/Home/Contact x +
http://localhost:52929/Home/Contact



[HOMEPAGE](#) [LOCATIONS](#) [ASSETS](#) [RESERVATIONS](#) [USER DETAILS](#) [CONTACT US](#)

[REGISTER](#) [LOG IN](#)

Contact

Name

Email

Subject

Message

[Create](#)

[Back to List](#)

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localhost:52929/Reservations/In x +
http://localhost:52929/Reservations/Index

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[Create New](#)

OwnerAssetId	LocationId	ReservationDate	
3	1	9/24/2020 12:00:00 AM	Edit Details Delete
4	2	10/1/2020 12:00:00 AM	Edit Details Delete
5	4	4/3/2020 12:00:00 AM	Edit Details Delete
6	5	1/30/2020 12:00:00 AM	Edit Details Delete
7	6	3/28/2020 12:00:00 AM	Edit Details Delete

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localhost:52929/Reservations

http://localhost:52929/Reservations



HOTEL RESERVATION SYSTEM

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6	5	1/30/2020 12:00:00 AM	Edit Details Delete
7	6	3/28/2020 12:00:00 AM	Edit Details Delete

localhost:52929/RolesAdmin

http://localhost:52929/RolesAdmin



HOTEL RESERVATION SYSTEM

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[USER DETAILS](#)
[ROLE CONFIGURATION](#)

[USER CONFIGURATION](#)
[CONTACT US](#)

HELLO ADMIN@FINALPROJECT.COM!
[LOG OFF](#)

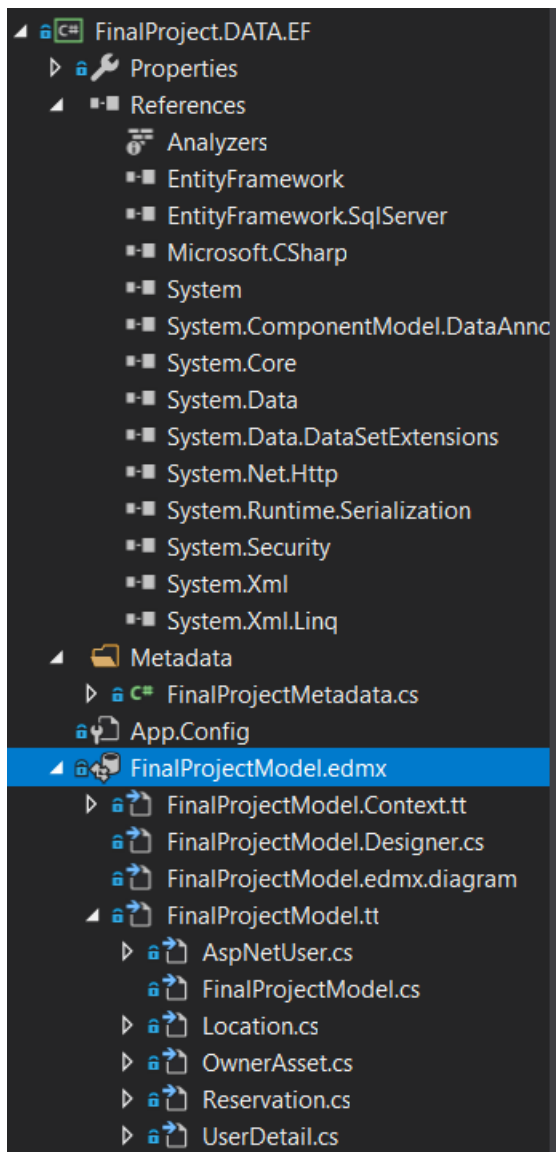
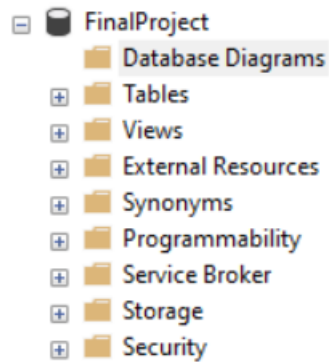
Index

[Create New](#)

Name	
Admin	Edit Details Delete
Employee	Edit Details Delete
Owner	Edit Details Delete

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Screenshots of the Coding Process




```
FinalProject - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Test Analyze Window Help
Debug - Any CPU - IIS Express (Google Chrome)
Mack Jones

Start Page Layout.cshtml Index.cshtml Original_Layout.cshtml
10 Version : 1.0
11 Released : 20131201
12 -->
13 -->
14 <html xmlns="http://www.w3.org/1999/xhtml">
15 <!--
16 -->
17 <head>
18 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
19 <title></title>
20 <meta name="keywords" content="" />
21 <meta name="description" content="" />
22 <link href="http://fonts.googleapis.com/css?family=Source+Sans+Pro:200,300,400,600,700,900" rel="stylesheet" />
23 <link href="/Content/default.css" rel="stylesheet" type="text/css" media="all" />
24 <link href="/Content/fonts.css" rel="stylesheet" type="text/css" media="all" />
25
26 <!--[if IE 6]><link href="default_ie6.css" rel="stylesheet" type="text/css" /><![endif]-->
27 </head>
28
29 <body>
30 <!--Swarming Logo-->
31 <div id="logo">
32 <h1><a href="#" class="icon icon-group"><span>Swarming</span></a></h1>
33 </div>
34
35 <!--Swarming Nav Content-->
36 <div id="header">
37 <div id="menu" class="container">
38 <ul>
39 <li class="current_page_item"><a href="#" accesskey="1" title="">Homepage</a></li>
40 <li><a href="#" accesskey="1" title="">Services</a></li>
41 <li><a href="#" accesskey="2" title="">Our Clients</a></li>
42 <li><a href="#" accesskey="3" title="">About Us</a></li>
43 <li><a href="#" accesskey="4" title="">Careers</a></li>
44 <li><a href="#" accesskey="5" title="">Contact Us</a></li>
45 </ul>
46 </div>
47 </div>
```

```
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Create.cshtml Index.cshtml ReservationsController.cs ReservationsViewModel.cs LocationsController.cs Index.cshtml _Layout.cshtml FinalProject/Metadata.cs
1 @model FinalProject.DATA.EF.Reservations
2
3
4 ViewBag.Title = "Create";
5
6
7 <h2>Create</h2>
8
9 using (Html.BeginForm())
10 {
11     @Html.AntiforgeryToken()
12
13     <div class="form-horizontal">
14         <h4>Reservations</h4>
15         <hr />
16         @Html.ValidationSummary(true, "", new { @class = "text-danger" })
17         <div class="form-group">
18             @Html.LabelFor(model => model.ReservationId, htmlAttributes: new { @class = "control-label col-md-2" })
19             <div class="col-md-10">
20                 @Html.EditorFor(model => model.ReservationId, new { htmlAttributes = new { @class = "form-control" } })
21                 @Html.ValidationMessageFor(model => model.ReservationId, "", new { @class = "text-danger" })
22             </div>
23         </div>
24
25         <div class="form-group">
26             @Html.LabelFor(model => model.OwnerAssetId, htmlAttributes: new { @class = "control-label col-md-2" })
27             <div class="col-md-10">
28                 @Html.EditorFor(model => model.OwnerAssetId, new { htmlAttributes = new { @class = "form-control" } })
29                 @Html.ValidationMessageFor(model => model.OwnerAssetId, "", new { @class = "text-danger" })
30             </div>
31         </div>
32
33         <div class="form-group">
34             @Html.LabelFor(model => model.LocationId, htmlAttributes: new { @class = "control-label col-md-2" })
35             <div class="col-md-10">
36                 @Html.EditorFor(model => model.LocationId, new { htmlAttributes = new { @class = "form-control" } })
37                 @Html.ValidationMessageFor(model => model.LocationId, "", new { @class = "text-danger" })
38             </div>
39         </div>
40     </div>
41 }
```

```
FinalProject - Microsoft Visual Studio
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IIS Express (Google Chrome)
Create.cshtml Index.cshtml OwnerAssetsController.cs UserDetailsController.cs LocationsController.cs ReservationsController.cs ReservationsViewModel.cs Index.cshtml _Layout.cshtml
Team Explorer Solution Explorer
FinalProject.UIMVC
18 // GET: OwnerAssets
19 public ActionResult Index()
20 {
21     var ownerAssets = (from o in db.OwnerAssets
22                       select o).ToList();
23     return View(ownerAssets);
24 }
25
26 public ActionResult OwnerAssets()
27 {
28     //Link to SQL Database with OwnerAssetsViewModel
29     List<OwnerAssetsViewModel> ownerAssets = db.OwnerAssets.
30     Select(o => new OwnerAssetsViewModel()
31     {
32         OwnerAssetId = o.OwnerAssetId,
33         AssetName = o.AssetName,
34         OwnerId = o.OwnerId,
35         AssetPhoto = o.AssetPhoto,
36         SpecialNotes = o.SpecialNotes,
37         IsActive = o.IsActive,
38         DateAdded = o.DateAdded
39     }).ToList<OwnerAssetsViewModel>();
40     return View();
41 }
42
43 //GET
44 public ActionResult Create()
45 {
46     ViewBag.OwnerAssetId = new SelectList(db.OwnerAssets, "OwnerAssetId", "OwnerAssets");
47     return View();
48 }
49
50 //POST
51 [HttpPost]
52 [ValidateAntiForgeryToken]
53 public ActionResult Create([Bind(Include = "OwnerAssetId, AssetName, OwnerId, AssetPhoto, SpecialNotes, IsActive, DateAdded")] OwnerAsset ownerAsset)
54 {
55 }
```

UserDetails		OwnerAssets									
Userid	FirstName	LastName	OwnerAssetId	AssetName	OwnerId	AssetPhoto	SpecialNotes	IsActive	DateAdded		
1	Mack	Jones	1	Hilton	1		Standard Hotel Package for most Employees.	1	9/24/2010		
2	John	Smith	2	Radison	2		Old Standard Package for Employees. Now Defunct.	0	11/3/1999		
3	Richard	Brown	3	Holiday Inn	3		Premium Package for Employees.	1	2/9/2014		
4	Bobby	Barrows	4	Sheraton	4		Standard Package for Managemen t.	1	4/25/2020		
5	Travis	Touchdown	5	Crest Hotels	5		Old Standard Package for Managemen t. Now Defunct.	0	10/1/1995		

```
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Quick Launch (Ctrl+Q)
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Index.cshtml Edit.cshtml Index.cshtml ReservationsController.cs UserDetailsController.cs UserAdminController.cs OwnerAssetsController.cs Index.cshtml Layout.cshtml ManageLogins.cshtml

40 <div id="logo">
41 <h1><a href="#" class="icon icon-group"><span>Hotel Reservation System</span></a></h1>
42 </div>
43
44 <!--Swarming Nav Content-->
45 <div id="header">
46 <div id="menu" class="container">
47 <ul>
48 <li><a href="@Url.Action("Index", "Home")" accesskey="1" title="">Homepage</a></li>
49 <li><a href="@Url.Action("Index", "Locations")" accesskey="1" title="">Locations</a></li>
50 <!--If user is logged in as an Admin Role-->
51 <If (User.IsInRole("Admin"))>
52 {
53 <li><a href="@Url.Action("Index", "OwnerAssets")" accesskey="2" title="">Assets</a></li>
54 <li><a href="@Url.Action("Index", "Reservations")" accesskey="3" title="">Reservations</a></li>
55 <li><a href="@Url.Action("Index", "UserDetails")" accesskey="4" title="">User Details</a></li>
56 <li><a href="@Url.Action("Index", "RolesAdmin")" accesskey="6" title="">Role Configuration</a></li>
57 <li><a href="@Url.Action("Index", "UsersAdmin")" accesskey="7" title="">User Configuration</a></li>
58 }
59 <!--If user is logged in as an Owner Role-->
60 <If (User.IsInRole("Owner"))>
61 {
62 <li><a href="@Url.Action("Index", "OwnerAssets")" accesskey="2" title="">Assets</a></li>
63 }
64 <!--If user is logged in as an Employee Role-->
65 <If (User.IsInRole("Employee"))>
66 {
67 <li><a href="@Url.Action("Index", "Reservations")" accesskey="3" title="">Reservations</a></li>
68 }
69 <li><a href="@Url.Action("Contact", "Home")" accesskey="5" title="">Contact Us</a></li>
70 <Html.Partial("_LoginPartial")>
71 </ul>
72 </div>
73 </div>
74 @RenderBody()
75
76 <!--Swarming Footer Content-->
77
```

```
FinalProject - Microsoft Visual Studio
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Quick Launch (Ctrl+Q)
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Index.cshtml Index.cshtml LocationsController.cs OwnerAssetsController.cs Index.cshtml Layout.cshtml index.html
FinalProject.UMLMVC
DeleteConfirmed(int id)

133 ViewBag.OwnerAssetId = new SelectList(db.Reservations, "OwnerAssetId", "OwnerAssetId", ownerAsset.OwnerAssetId);
134 return View(ownerAsset);
135 }
136
137 //Only available in Admin Role.
138 [Authorize(Roles = "Admin")]
139 //GET: OwnerAssets/Delete
140 public ActionResult Delete(int? id)
141 {
142     if (id == null)
143     {
144         //Return Error Message if there is no id.
145         return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
146     }
147     //Grab the id value of OwnerAssets
148     OwnerAsset ownerAsset = db.OwnerAssets.Find(id);
149     if (ownerAsset == null)
150     {
151         //Return an Error Message if there is no ownerAsset.
152         return HttpNotFound();
153     }
154     //Return the data to the screen.
155     return View(ownerAsset);
156 }
157
158 //Only available in Admin Role.
159 [Authorize(Roles = "Admin")]
160 //POST: Reservations/Delete
161 [HttpPost, ActionName("Delete")]
162 [ValidateAntiForgeryToken]
163 public ActionResult DeleteConfirmed(int id)
164 {
165     //Grab the id value of OwnerAssets.
166     OwnerAsset ownerAsset = db.OwnerAssets.Find(id);
167
168     //Remove the current instance of OwnerAssets and save the changes. Send user back to Index afterwards.
169     db.OwnerAssets.Remove(ownerAsset);
170 }
```

FinalProject - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU IIS Express (Google Chrome) Mack Jones

Index.cshtml LocationsController.cs OwnerAssetsController.cs Index.cshtml Layout.cshtml Index.html

```
1 @model IEnumerable<FinalProject.DATA.EF.OwnerAsset>
2
3 @{
4     ViewBag.Title = "Index";
5 }
6
7 <h2>Index</h2>
8 <!-- If user is in an Owner Role -->
9 @if (User.IsInRole("Owner"))
10 {
11     <p>
12         @Html.ActionLink("Create New", "Create")
13     </p>
14 }
15 <table class="table">
16     <tr>
17         <th>
18             @Html.DisplayNameFor(model => model.AssetName)
19         </th>
20         <th>
21             @Html.DisplayNameFor(model => model.OwnerId)
22         </th>
23         <th>
24             @Html.DisplayNameFor(model => model.AssetPhoto)
25         </th>
26         <th>
27             @Html.DisplayNameFor(model => model.SpecialNotes)
28         </th>
29         <th>
30             @Html.DisplayNameFor(model => model.IsActive)
31         </th>
32         <th>
33             @Html.DisplayNameFor(model => model.DateAdded)
34         </th>
35     </tr>
36
37     @foreach (var item in Model)
38     {
```

100 %

Error List

Ready Ln 66 Col 48 Ch 48 INS 0 6 FinalProject master

Mack Jones

FULL-STACK DEVELOPER

913-433-3407 **PHONE**
jonesmacka@outlook.com **EMAIL**
(No profile yet, but will set one up soon!) **LINKEDIN**

SUMMARY OF QUALIFICATIONS

- Solid foundational knowledge of designing and developing full-stack web applications using .NET framework.
- Very in-tune with the problem-solving/troubleshooting process.
- Solid foundation for structuring out applications/programs with years of previous programming education.
- Able to work with any group with solid communication/teamwork skills.
- Able to step back and "outline" huge tasks to break them down into smaller, more-managable chunks.

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:** Farthest version on available through Github. Still tuning up a bit. Uses a combination of CSS/HTML/JavaScript for its functionality.
- **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

CENTRIQ TRAINING, Kansas City, MO
Full-Stack Developer Program

9/21/2020 – 1/15/20

Technical Competencies:

- MVC Framework
- Trouble Shooting & Debugging
- Agile/Scrum (Created Team Project)
- Website Deployment
- Pair Programming
- Code Review
- Professionalism, Teamwork, Problem Solving & Effective Communication

PROFESSIONAL EXPERIENCE

No professional coding experience yet, but I plan to work hard wherever I can when I get my foot in the door!