

Car Repair Reservation System

Reservation System Project

Mack Jones | Full Stack Web Developer | February 4th, 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.

Car Reservation System

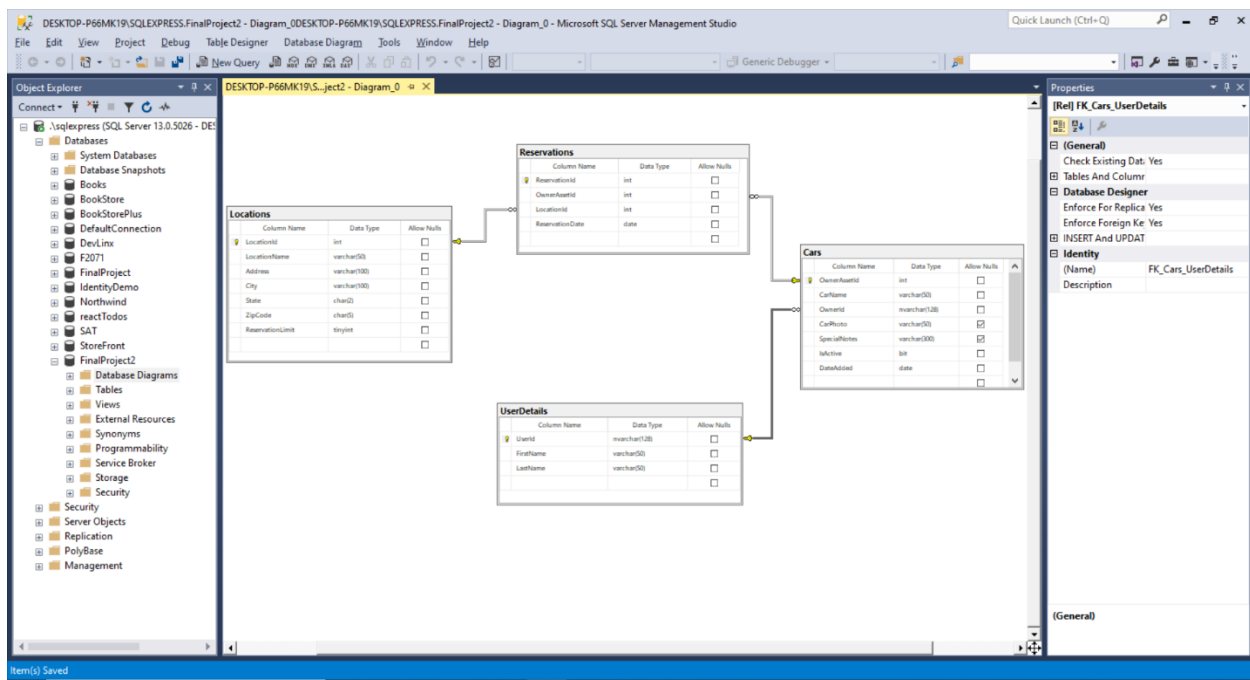
This is a basic application that allows for customers to reserve spots in one of various car repair shops. This is done through the use of MS SQL tables represented through the views in the application, with various limits/relationships working behind the scenes. I chose this project because I wanted to challenge myself with problems I have not tackled before. I feel that this project's appears easy but deceptively difficult nature has also helped me learn a lot more than I would have otherwise with a bigger, but "more simplistic approach" to a project. I have certainly learned how to maximize my own productivity/development style through building out this application, and I consider that extremely valuable. Overall, I feel like this entire project has made me into a better developer and has become one of many small steps in making my career in Software Development a reality.

Project Outline

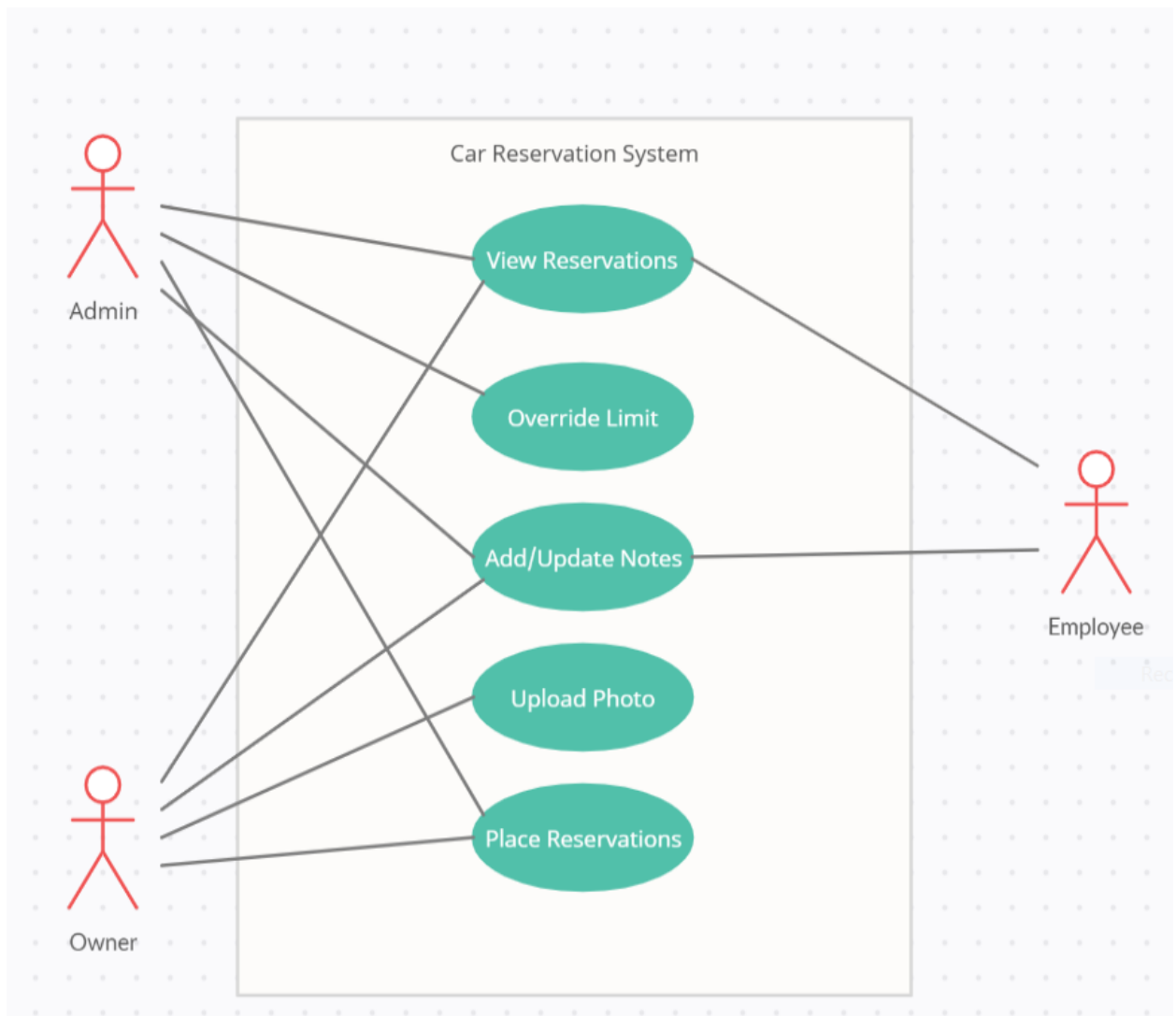
Project Requirements

- 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

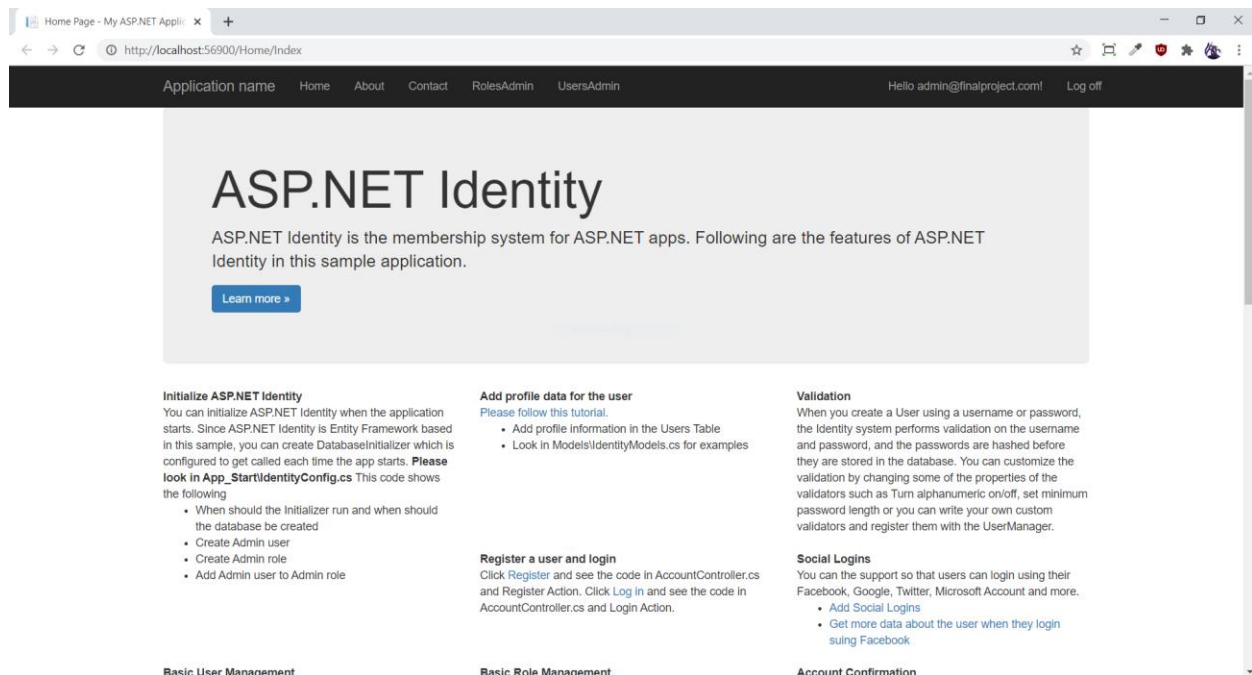


Use-Case Diagram for the Application

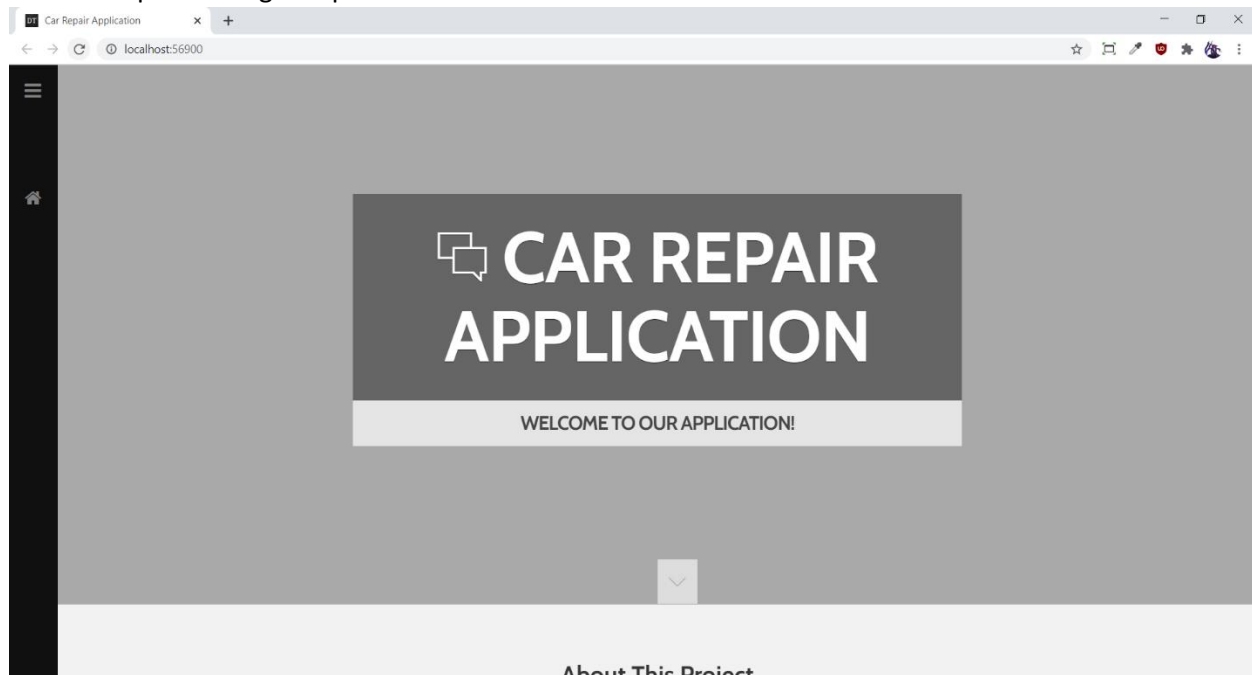


General Screenshots of the UI

Initial View of the UI

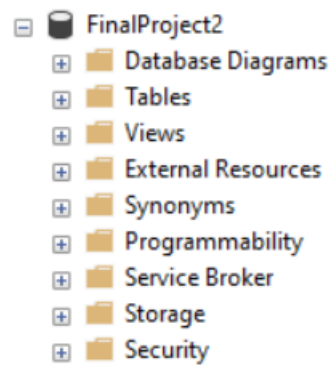


UI after Implementing Template

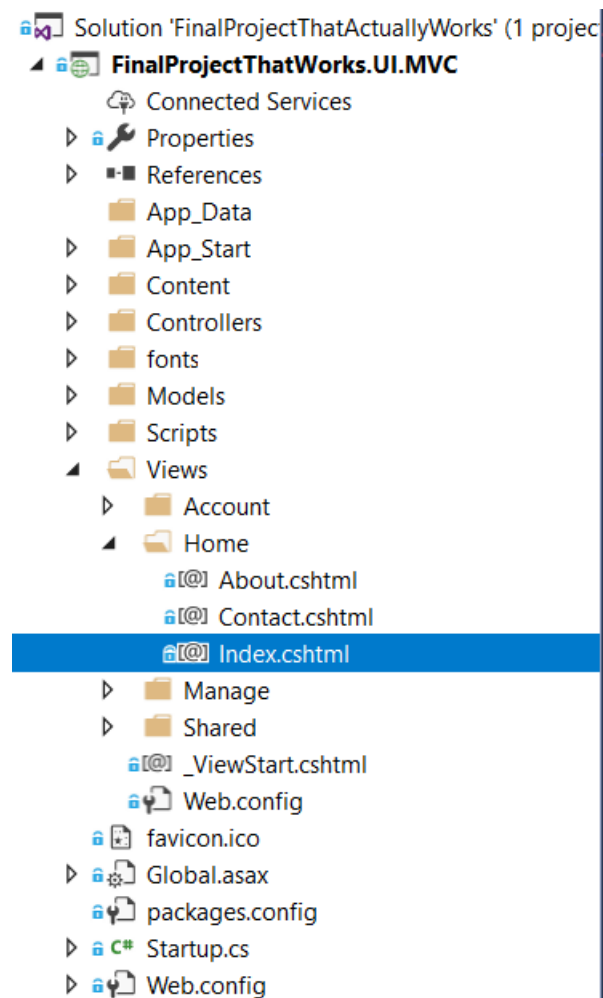


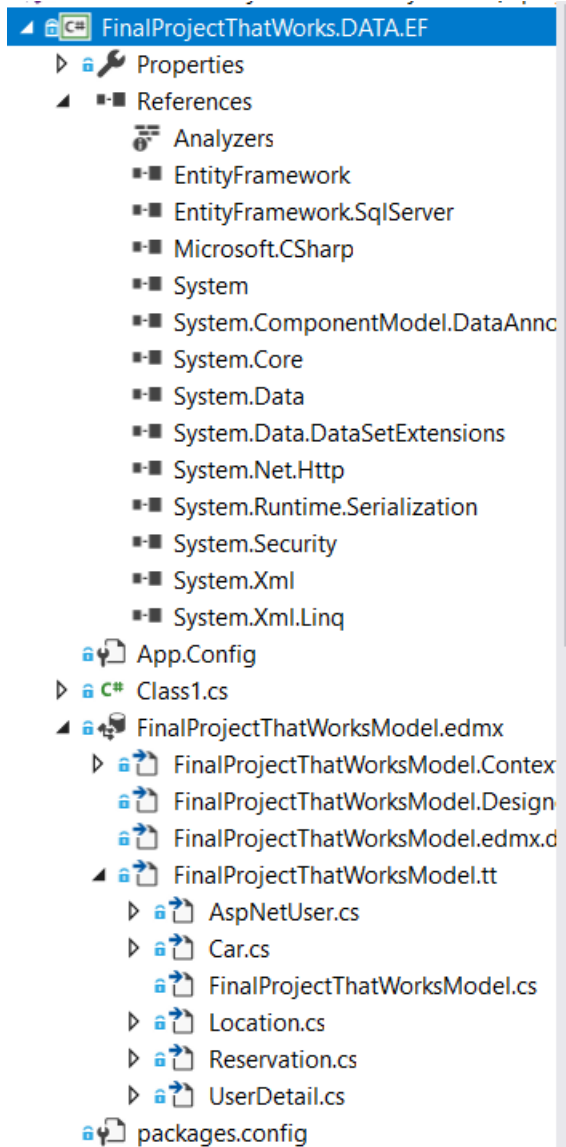
Screenshots of the Coding Process

Database Creation



UI and Data Layer Creation





Reservations Views (Index and Create)

Car Repair Application x +

Not secure | fsdp2.jonesmack.com/Reservations

Current Reservations

[Create New](#)

| Reservation Date: | Special Work Notes: | Car Name: | Location Name: | |
|-------------------|-------------------------------|---------------|-------------------|--|
| 1/26/2021 | Broken Windshield, Flat Tire. | Mercedes Benz | GenericAutoRepair | Edit Details |
| 1/25/2021 | Brakes need tightening. | Mercedes Benz | GenericAutoRepair | Edit Details |

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Reservations

Reservation

OwnerAssetId Mercedes Benz

LocationId GenericAutoRepair

Reservation Date:

Special Work Notes:

Create

[Back to List](#)

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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. Still an In-progress venture.
- **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

9/21/2020 – 1/15/20

Full-Stack Developer Program

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!