Team 4 CSC 4350

Software Engineering Fall 2022

Dr. Rao Casturi

Team Members:

1. Anh Tran
2. Patric Kun
3. Henry Nketeh
4. Bao Ton
5. Braylin Campbell

Project Name: **Restaurant Reservation System**

**Project Description**

**Introduction**

Restaurants are an important aspect of today’s society, being a place for not only food, but social gatherings and entertainment. Moreover, people have become accustomed to making appointments and placing orders online in recent years. Thus, it is already anticipated that restaurants and other food-related organizations will have adapted to a method of incorporating online and digital solutions into their operations.

We wanted to create an interactive reservation system web application that restaurants and patrons would use for reservations as well as online ordering for pickup. This would be a web application for interactive reservation system between a restaurant and its customers. The goal is to provide a simple system that makes it simple to find, browse, reserve, and make online order for pickup for customers, as well as manage reservations, orders, and more for restaurants.

When the customer views the site, they will be greeted with images of food as well as many different options toward their reservation. These options include food and drink menus, business hours, address for direction/navigation purposes as well as buttons that lead to options for reservation and online ordering. It should be noted that the reservation system will have options for selecting the date, time and options that will allow the restaurant to know how many guests will be in attendance. By using this web application, we want to create a quick, user-friendly reservation, online ordering system for restaurants and their customers.

As for the restaurants side, they will have their own set of options as well. They will have options to log into their dashboard using their own credentials, in addition to this they will be able to see all their upcoming reservations, online orders made by customers and will be given options to edit certain aspects. Restaurants may have the ability to edit reservations as well as their menus based on consumer and/or business needs and events. Admins will also be able to log income generated from these reservations, orders.

We hope to give restaurants a useful tool to help restaurants build a relationship with their customers. We also believe that by doing this, they would be able to manage various types of data more effectively than they previously could have by using a variety of applications and analog tools. We want to innovate the number of work employees must perform for them to keep up with technological advancements and commercial requirements.

**Technologies**

\_This Reservation System is divided into three parts: Front-end for customers, Front-end for restaurants, and Back-end for both.

\_Front-end Stack: JavaScript, HTML, CSS, Bootstrap, ReactJS.

\_Back-end Stack: Nodejs, MongoDB (Database).

**Team 4 Biography Information:**

**Braylin Campbell**: A 21-year-old Computer Science Senior who has about 1 year of experience in programming. He has a good understanding of Java, Python, C, and assembly language. He had an internship with the Dekalb County School district in the information technology department and was also given a return offer recently. He has good teamwork skills and can creatively solve problems.

**Patric Kun**: A 24-year-old Computer Science major who has a great interest in computers through gaming. He has great understanding of Java, Python, C++, JavaScript, HTML, and Assembly. He has a great strength in object-oriented programming. He is intelligent, flexible and is always willing to learn new things.

**Bao Ton**: A 29-year-old Computer Science Senior who has years of experience in Credit Card machine industry. He currently interns for a company called “Skipli” as a Software Engineer. He has knowledge in Java, Python, C, JavaScript, HTML, CSS, React, React-Native, NodeJs and he has been working in web development for a year and Java, Python for two years. He also works as a tutor at Georgia State University. Because of his knowledge, he will be the main developer for this project and will also teach other members the art of web development.

**Henry Nketeh**: A 22-year-old Computer Science Senior who has 4 years of internship experience in the software industry. They have a great understanding of many programming languages, including Java, JavaScript, C++, Python, R Programming, Linux, Assembly, SQL, HTML, .NET, and Excel. They also have a great work ethic and are very skilled at thinking ahead for the future.

**Anh Tran:** is a junior computer science student at GSU with about one year of experience. He has some experience with Java and Python and is familiar with C and Assembly. He has never had experience developing any project in the past but is generally interested in learning many new technologies that will be applied in this project. Braylin and Anh will be the leading researcher for this project.

**Why did we pick this project?**

We picked this project because some of us are familiar with web development and are willing to teach the other members that are not, how to develop both front and back end for a restaurant. We also think that this project can be applied to real life. Perhaps, after finishing this project, some of us would come up with a great idea to develop an all-in-one solution for restaurants to manage sales, orders, incomes, reservations, and even marketing on Social Media.