

PUSL3119 Computing Individual Project Project Proposal

Food Desire

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Degree Program: Bsc(Hons) Computer Science

Problem statement

Online food ordering systems become more popular in the past decade. These systems allow customers to order their favorite foods from their favorite restaurants. these ordering systems can add more value to a normal restaurant.

But these online food ordering systems can have their limitations and can add more value to the existing systems in many ways. These systems are limited to only accept orders that are provided by the vendor or the restaurant. Customers cannot order a meal outside the menu. This a limitation when a

Customers cannot order a meal outside the menu. This a limitation when a customer wants a meal with different ingredients.

Most of these systems only have a simple recommendation system, some systems do not even have one. If the system allows customers to modify their food as they want, this recommendation system can be improved and add more value the food ordering system itself.

Project description

The proposing project is to enhance the online experience of the customers and add more value to the overall system. As for the project a full system will be developed for an Imaginary restaurant called "Food Desire". This project will contain a fully functioning inventory management system and a web site. To give a good meaning to the restaurant name, the online food ordering system will allow their online customers to customize the order as they want. For an example, customers can change the amount of ingredients by adding more or reducing the ingredients. So, the price will not be fixed, So the system will give more value to the orders.

To enable this feature, the core component of the system, the inventory system also needs to be modified. So, an Inventory management system will also be developed for the project. With these two systems implemented, the recommendation system can also be upgraded. The system will suggest food items for their online customers depend on their most consumed food and as well as the individual ingredients.

Keywords

Web, inventory, system, management, dev, recommendation system, data analytics, distributed system, .NET

Requirements

The project will contain few software applications and few data analytics components. My preferred development platform is .NET, and all the components will be developed using .NET.

Since this project have multiple .NET projects, I must learn about good application architecture practices to keep a good level of separation of concern throughout the development. So, I may not have to worry about the unnecessary effects that can be caused by referencing multiple .NET projects each other.

When it comes to the recommendation system, I must learn about data analysis. Having a good knowledge about this will help me finalizing the project.

Finance

The development platform is .NET, and its developer tools are free to use. The deployment of the system can be costly depend on the free to host serves reliability. There are not any extra cost.

Time frame

| Task | Group | Start Time Due Time |
|-------------------------------|-----------------------|-------------------------|
| Questioner design | Analysis | 11/1/2022 11/2/2022 |
| Publish the questionnaire | Analysis | 11/2/2022 11/9/2022 |
| Analysis | Analysis | 11/10/202211/11/2022 |
| User cases design | Planning | 11/12/202211/12/2022 |
| ERD design | Planning | 11/13/202211/14/2022 |
| Desktop app wireframe | Planning | 11/15/202211/19/2022 |
| Web app wireframe | Planning | 11/15/202211/19/2022 |
| PI Document | Planning | 11/20/202211/24/2022 |
| Models layer | Backend | 11/25/202211/25/2022 |
| Data access layer | Backend | 11/26/202211/26/2022 |
| Services layer | Backend | 11/27/202211/27/2022 |
| Entity framework | Backend | 11/25/202211/28/2022 |
| Unit testing Entity framework | Backend | 11/28/202211/28/2022 |
| Front end | Desktop | 11/29/202212/13/2022 |
| Add services | Desktop | 12/5/2022 12/10/2022 |
| Inventory Analysis view | Desktop | 12/5/2022 12/9/2022 |
| Basic views | Desktop | 11/30/202212/4/2022 |
| Front end | Web | 12/14/202212/28/2022 |
| Unit testing | Desktop | 12/11/202212/13/2022 |
| Basic views | Web | 12/15/202212/19/2022 |
| Add services | Web | 12/20/202212/28/2022 |
| Design | Recommendation system | 12/29/20221/27/2023 |
| Unit test | Recommendation system | 1/23/2023 1/27/2023 |
| Merge with web | | 1/28/2023 2/1/2023 1 |
| Deploy | Launch | 2/2/2023 1: 2/3/2023 1: |
| Server test runs | Launch | 2/4/2023 1 2/7/2023 1 |
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