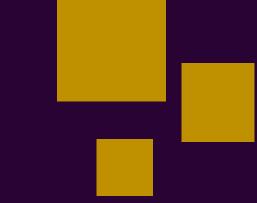
Flower Planting Order Management Application

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DESCRIPTION

The Flower Planting Order Management Application manages a database of flower planting orders, specifically designed and customized for John and Sons, Inc.

The main objective of this application is to manage the flower planting orders, which includes accepting orders, saving them, organizing them, and providing them in logical formats to the administrators. It provides a user interface that will guide customers through the flower planting order process, and it will guide administrators through order creation, updates, deletions, searches, and analytics.



JUSTIFICATION

This application's database and easy-to-use interface to manage the order information will improve the administration of the business by making order tracking smoother and more efficient. This project simplifies the ordering process, which results in multiple benefits:

Efficient Time Management

Reduced Costs

Ease and Simplicity

Improved Communication

DESIGN PROCESS

This project involved a hybrid approach between Waterfall and Agile Scrum implementation methodologies that was tailored to fit the specific needs and requirements of this project.

Planning tools included Microsoft Word documentation and templates, Microsoft Excel, a sprint back log chart, a Gantt project schedule, LucidChart (n.d.) diagrams, Bootswatch (n.d.) guides, and forums on Halo Learn (n.d.).

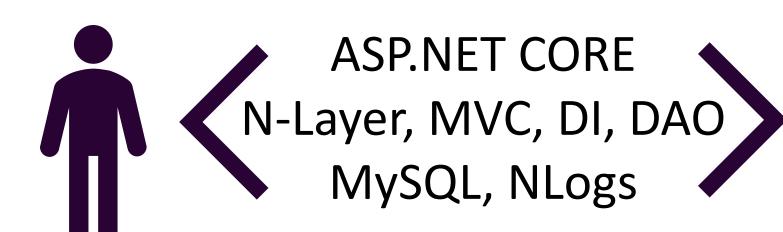
Design plans included flowcharts, sitemap, wireframes, UML Class Diagram, UML System

Component Diagram, UML Deployment Diagram, UML Activity Diagram, Architecture Diagram, High-level Logical Solution Design, System Design, and a Physical Solution Design

COLLEGE OF ENGINEERING

& TECHNOLOGY

TECHNICAL ELEMENTS & STANDARDS



This application uses Microsoft ASP.NET CORE, with standards such as the n-layer architecture, Model-View-Controller (MVC) pattern, dependency injection, and data access objects and services. It also uses MySQL for a relational database to efficiently store and manage the data, also offering a potential for cloud compatibility. Languages included C#, HTML, CSS, JavaScript, and more. GitHub managed the storage, sharing, and backup code of this project. NLogs tracked logs in real-time for monitoring and debugging.



FEATURES, REQUIREMENTS & SPECIFICATIONS

Register

- New users can register an account

Login

- Returning users and administrators can login

Create

- Users can create a flower planting order

Update

- Administrators can update any orders

Delete

- Administrators can delete any orders

View All - Administrators can view all the orders and their information

Search - Administrators can search the database of orders

Analytics - Administrators can view order analytics performed on the database

Permissions & Security – Information follows strict business privacy requirements

Error Handling – Proper messages are used.

Database – A suitable database is used to store, verify, and maintain the records.

DATA SUMMARIES

Customers

 Customer ID, First Name, Last Name, Address Line 1, City, State, Zip, Email, Phone, Password, & Admin Status

Orders

 Customer ID, Order ID, Location, Section, First Name, Last Name, Size, Price, Preferences, Promise, Understood, History, & Payment

Analytics

 Customer Count, Order Count, Counts By Size, Counts By Location, Cash In, & Orders Promised/Not Yet Paid

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