**SCO400: Project**

Concept Paper

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| Proposed Project Title: |
| Garden Fresh Restaurant Management System. |
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| Problem Description and Justification: |
| Garden Fresh is a local restaurant that currently handles customer orders and reservations using a manual system. The system used is disadvantageous when customers wish to order from remote locations and enjoy their meal away from the restaurant. The existing system only allows customers to visit the restaurant physically if they wish to order food. Another challenge faced by this system is inefficient table management. The existing system for reservations relies on customers to phone the restaurant, and the manager notes down the customer details, time, and number of tables reserved. This method has proven to be inefficient as it results in issues such as double booking, delays, overbooking, and incorrect customer details. The system, being paper-based, is also unable to manage reservation records properly. It is clear the system lacks easy accessibility and efficiency in managing tables. |
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| Proposed Solution: |
| The solution for this is a web-based restaurant management system that can automate the ordering and reservation process. The system will feature different views for customers and restaurant staff. Customers will be able to log into the system using an already existing account and make either an order or a reservation. For an order, the system will present a menu that customers can select different meal options from. The customer then decides on pick-up or delivery. In the case of reservations, the application will allow customers to choose a table for a particular date and time. The system also restricts two or more customers from selecting the same table on the same day. Also, the restaurant staff are able to access the system to check on the reservations made. The system database also records the reservations and orders made on a daily basis. |
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| Proposed Tools for Solution: |

This web-based application will be built using HTML, CSS, JavaScript, and Django. HTML and CSS will be used in the front-end development to design and style the system’s interface. JavaScript will introduce dynamic functionality into the system. The Django web framework will build the system backend. Also, the system database will be built using SQLite3, which will create, update, retrieve, and delete the restaurant’s data.