Nelli Morel Restaurant Reservation Report

For my project, I developed a web-based platform using PHP and MySQL to enable restaurant managers to manage reservation schedules and dining experiences effectively. First, I was provided with the starter code in PHP. Therefore, I need to connect this platform to a MySQL database and complete the necessary functionality to make the platform run smoothly. And lastly, the completed platform will enable restaurant managers to add, modify, or cancel reservations, as well as update dining preferences of regular customers.

The code that handles database operations is the RestaurantDatabase.php, in where it get connect to MySQL database. And it check whether a customer already exists in the Customers table before making a reservation. If the customer does not exist, they should be added automatically. 2. New customers can be added either directly or during the reservation process. 3. Integrated customer data will enable tracking and managing interactions, including reservations and dining preferences.

Also, it have findReservations(customerId), Retrieves all reservations for a specific customer using their customerId. 2. addSpecialRequest(reservationId, requests), Updates the specialRequests field in the Reservations table. 3. addReservation and includes a check or creates a customer in the Customers table before adding a reservation.

It have a code called home.php that serve to manages the user interface and request handling such as addReserversion, viewReserversions, viewCustomerPreferences, addSpecialRequest and addCustomer.

Lastly I created a MySQL database that has a Customers Table, in where there is customerId INT NOT NULL UNIQUE AUTO\_INCREMENT o customerName VARCHAR(45) NOT NULL o contactInfo VARCHAR(200) (stores email or phone number) o Primary Key: customerId.

Reservations Table in where there is reservationId INT NOT NULL UNIQUE AUTO\_INCREMENT customerId INT NOT NULL reservationTime DATETIME NOT NULL numberOfGuests INT NOT NULL o specialRequests VARCHAR(200) Primary Key: reservationId Foreign Key: customerId references Customers(customerId).

DiningPreferences Table in where there is preferenceId INT NOT NULL UNIQUE AUTO\_INCREMENT customerId INT NOT NULL favoriteTable VARCHAR(45) dietaryRestrictions VARCHAR(200) Primary Key: preferenceId o Foreign Key: customerId references Customers(customerId).

For me the most challenging thing about this project was connecting the php code with mysql I take me time to figure out. And the thing that I like the most is that I was able to learn a lot more about coding and using php and mysql.