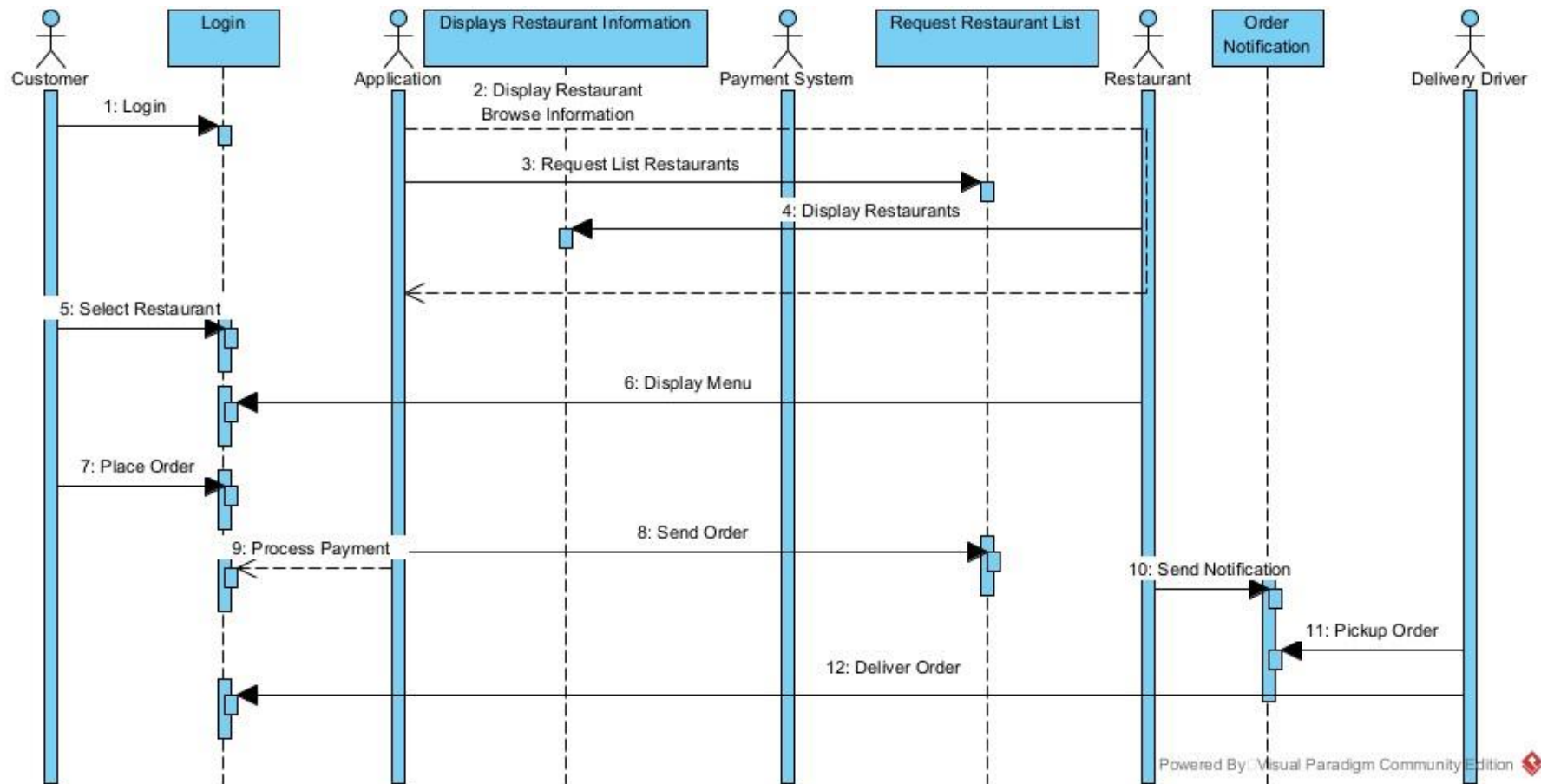**Systems Analysis and Design**

Phase 2 Sequence Diagram

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The Sequence Diagram Information

The customer interacts with the Application, which acts as an intermediary between the Customer, Restaurant, Payment System, and Delivery Driver. The Application handles user authentication, displays restaurant information, manages the cart, processes payments, and coordinates the order and delivery processes. The Restaurant provides the menu, ratings and confirms the order details. The Payment System is responsible for securely processing the user's payment to place an order with the restaurant. The Delivery Driver handles the physical pickup and delivery of the order, updating the application at each stage to keep the Customer informed.

Customer	Application	Payment System	Restaurant	Delivery Driver
Initiates a login request.	Sends a request to the Restaurants to get a list of restaurants with opening and closing hours.		Restaurants returns the list, with opening hours and Application displays it to the Customer.	
Customer selects a specific restaurant.	Application requests the menu and ratings from the Restaurant.		Restaurant returns the menu and ratings, and Application displays to the Customer.	
Customer adds desired items to the cart.	Application updates the cart with the selected items.			
Customer proceeds to checkout.	Application displays the payment page.			
Customer confirms the order and initiates the payment process.	Application sends the payment details to the Payment System. Application sends the order details to the Restaurant.	Payment System processes the payment and returns a success message.	Restaurant confirms the order and Application sends an order confirmation notification to the Customer.	

	Application notifies the Delivery Driver about the pickup and delivery.		Restaurant updates the order status once the order is picked up by the Delivery Driver.	Delivery Driver updates the delivery status once order is picked up to "picked up".
	Application notifies the Customer that the order has been delivered.			Delivery Driver delivers the order to the Customer. Delivery Driver updates the delivery status to "delivered".