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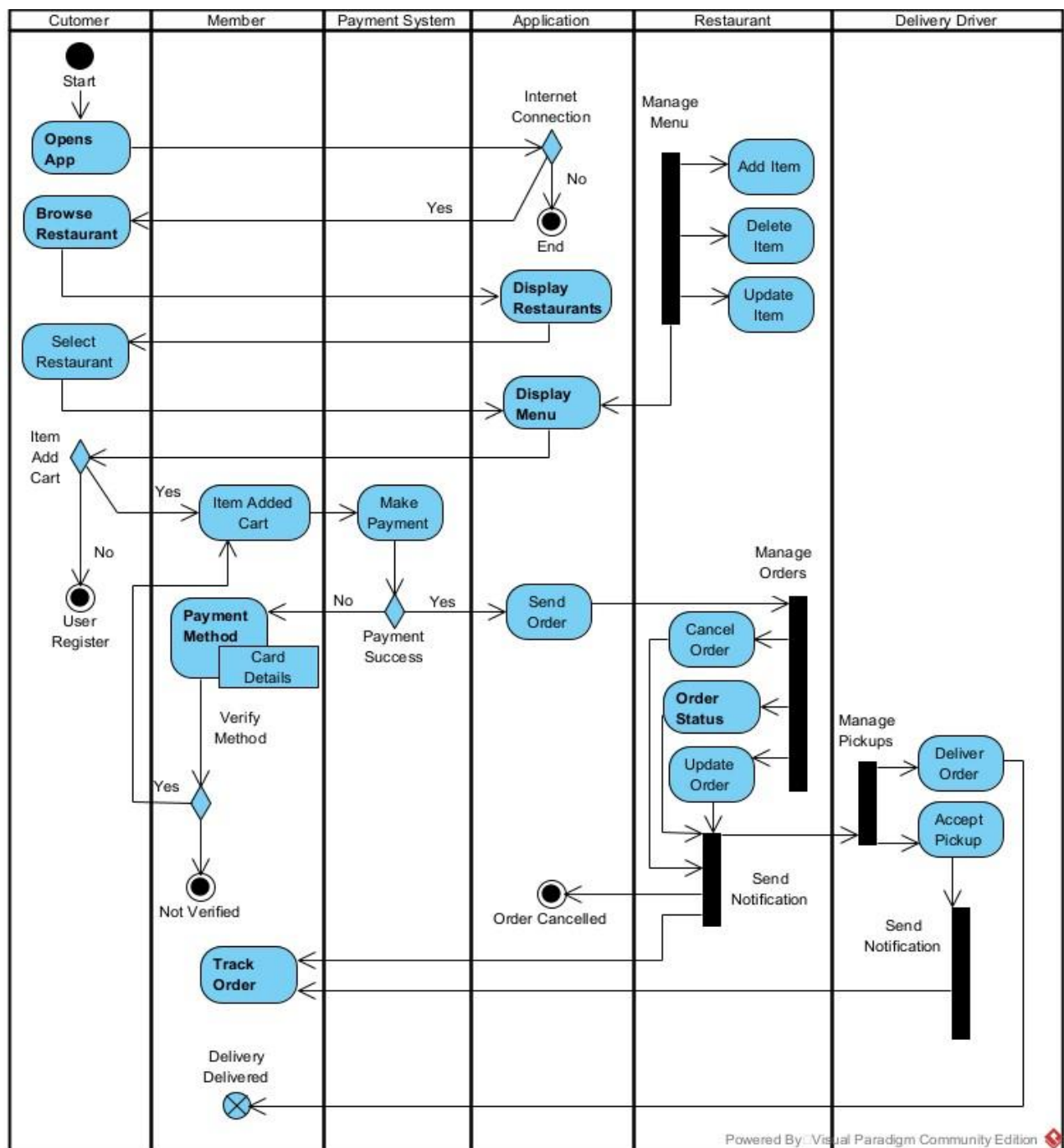
Systems Analysis and Design

Phase 2 Activity Diagram

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Food Delivery Application Activity Diagram

Food Delivery Application Activity Diagram Information

The diagram displays the workflow for the main use cases: Searching and Browsing Restaurants, Placing an Order, Tracking an Order, Managing Menu Items, and Managing Pickups. Each step in the process shows the actions performed by all actors and the application responses.

Search and Browse Restaurant, View Menu and View Ratings

Customer**:** Opens the application, browses nearby restaurants, selects a restaurant, views menu and ratings. If there is no internet the application fails to launch.

Application**:** Displays a list of restaurants based on location, shows selected restaurant's menu and ratings.

Place Item in Cart

Member**:** Logs into the application, searches and selects a restaurant, adds items to the cart, proceeds to checkout, and confirms the order by making payment.

Application**:** Verifies login credentials, displays menu and ratings, updates cart, processes payment. If there is no payment from card or method of payment verification fails, application ends process.

Payment System**:** Processes payment and returns confirmation.

Restaurant**:** Receives order details.

Track Order

Member**:** Navigates to order tracking and views real-time updates.

Application**:** Displays order status and sends notifications about order status.

Manage Menu Items

Restaurant Administrator**:** Logs into the application, navigates to the menu management section, adds/modifies/deletes menu items.

Application**:** Verifies login credentials, updates menu items accordingly.

Manage Pickups

Delivery Driver**:** Logs into the application, navigates to pick up management, accepts order pickup, picks up order, and delivers it.

Application**:** Verifies login credentials, updates order status, notifies member of pickup and delivery status.