

CSE 3310 – Fundamentals of Software Engineering
Fall 2021 – Term Project

**Project 1: University Food System
(UFS)**

Team 3

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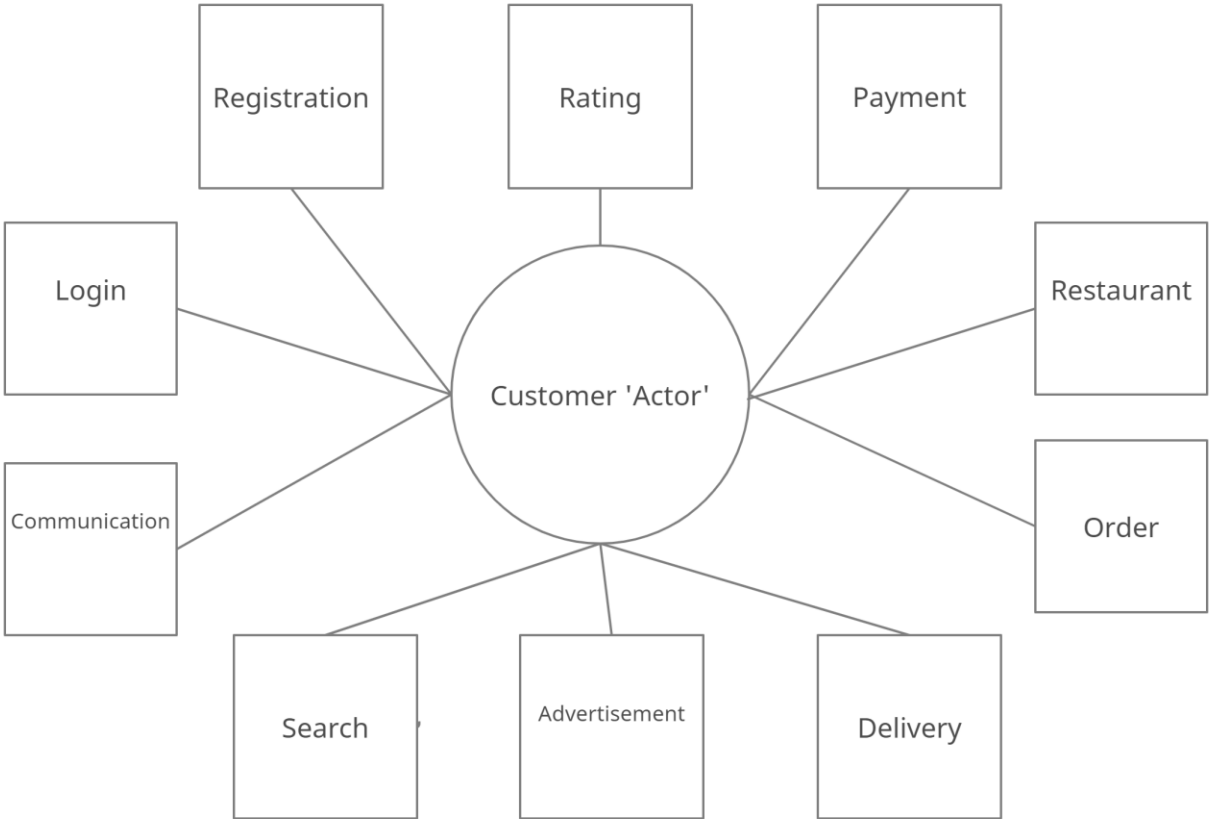
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Project Summary

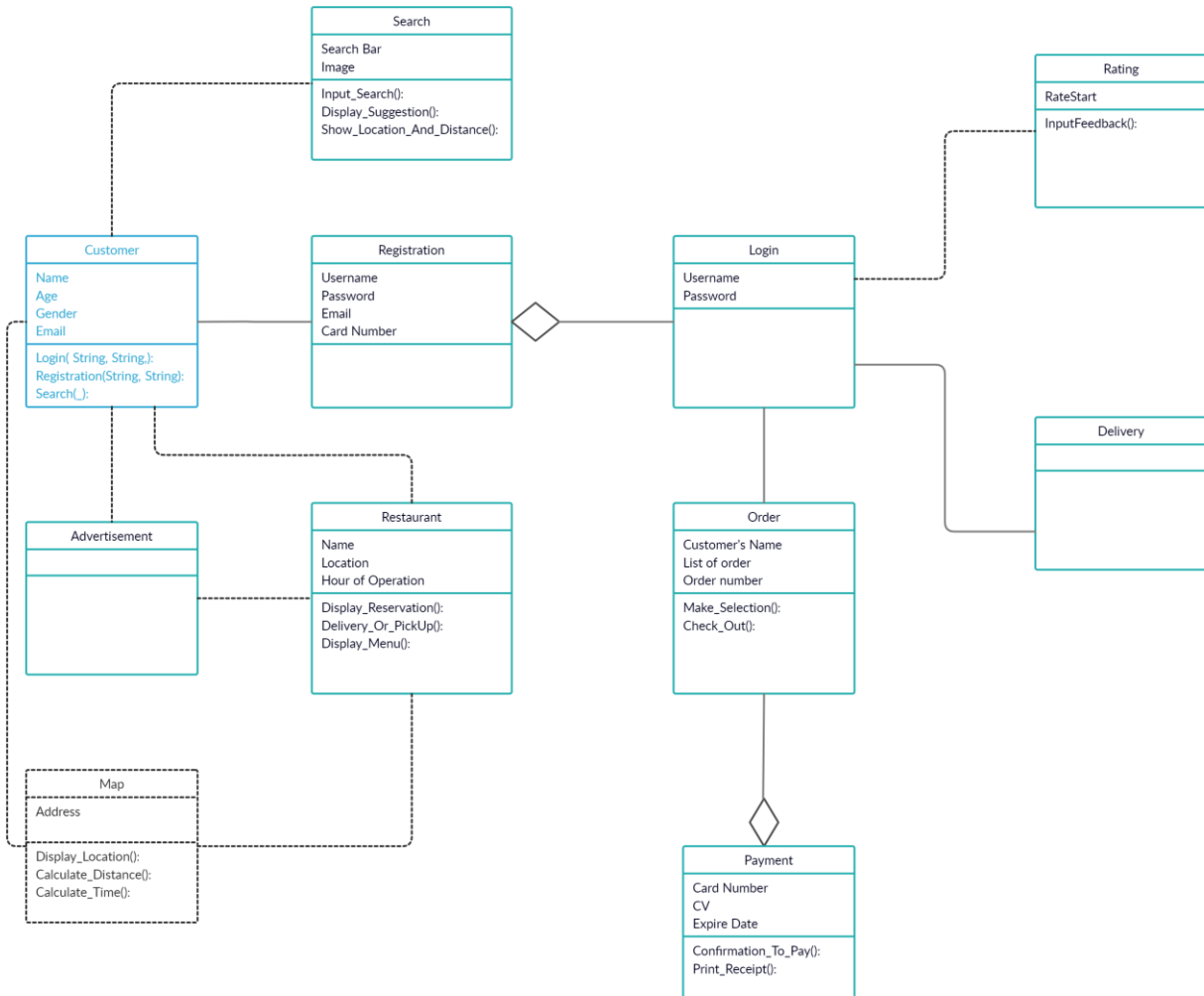
Develop an android application to help university students order food and provide information about on-campus and near-campus restaurants and food providers (e.g. restaurant review and comments). The system should have an appealing home screen and minimally include the following functionality (you may modify or add additional functionality after receiving approval from your client):

- Registration: Students must register before they can use the system. University ID can be used as member Id.
- Login: Members must login to use the system after initial registration.
- Payments: System should be able to handle payments (Meal plan and Credit cards only; You do not need to validate credit cards for this project, just make them 16 digits long, have an expiration date, and a 3-digit security code)
- Restaurants: System should allow vendors to add their restaurants and their menu (e.g. subway, Panda express, connection café and other on campus restaurants).
- Orders: Place food order (e.g. Sandwich and coke with chips etc.). System should also allow for modifying your order after the initial placement within 5 minutes of your initial order time (i.e. cancel an order to modify existing order by adding new items).
- Communication: System should allow for sending text messages/e-mails to a single, subgroup or all members (e.g. Your order has been placed, your order is on its way etc.)
- Delivery: System should allow students to track their order and get their food delivered or select an option for pick up.
- Favorites list: Allow creating a favorite list of restaurants (you must have ordered at least once from a restaurant before you can add it to your favorite's list)
- Search: You should be able to search for different food items or restaurants
- Review and Rating: Use Stars (one to five stars) to rate the service received, and allow to enter for a short comment to help future users
- Advertisements: System should provide advertising space (e.g. Local subway store offers specials or coupons to members). This could be a source of revenue from the app.

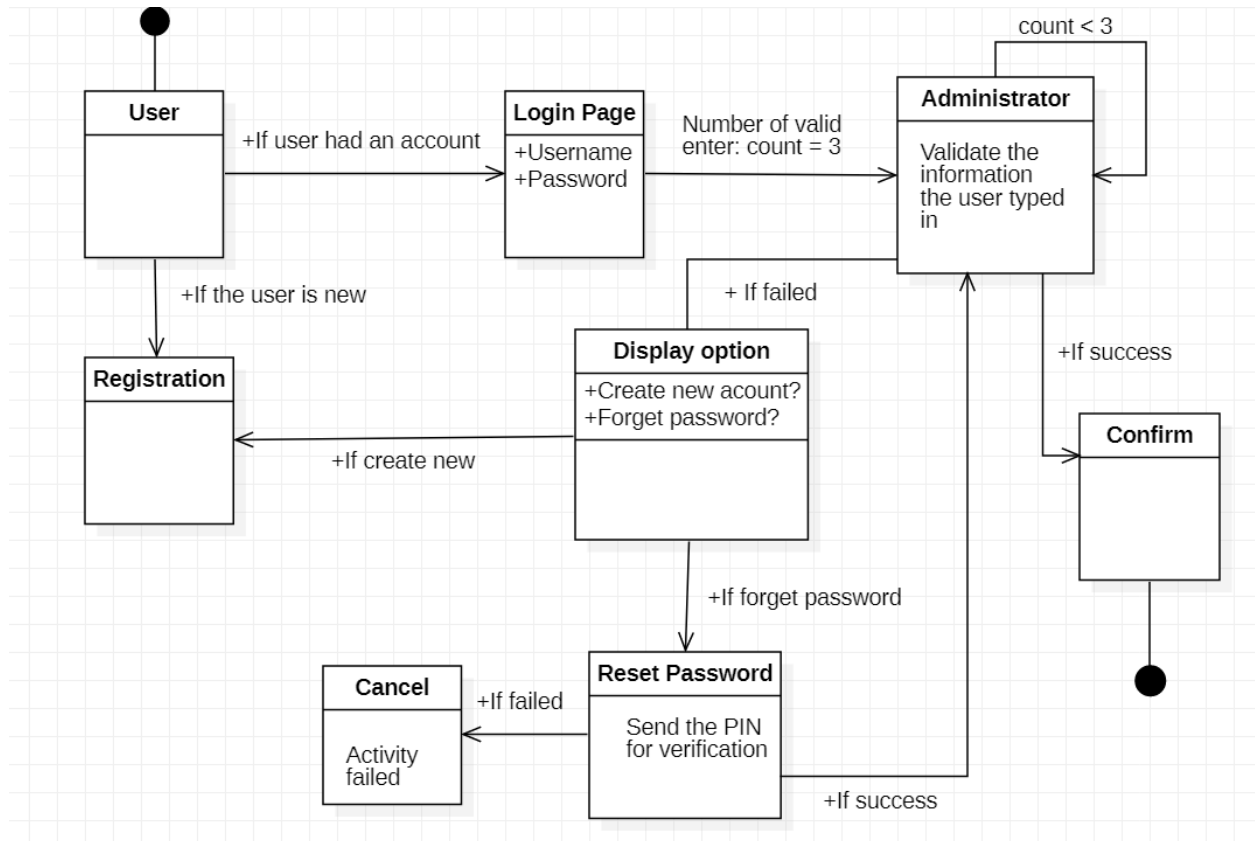
Project Context Diagram



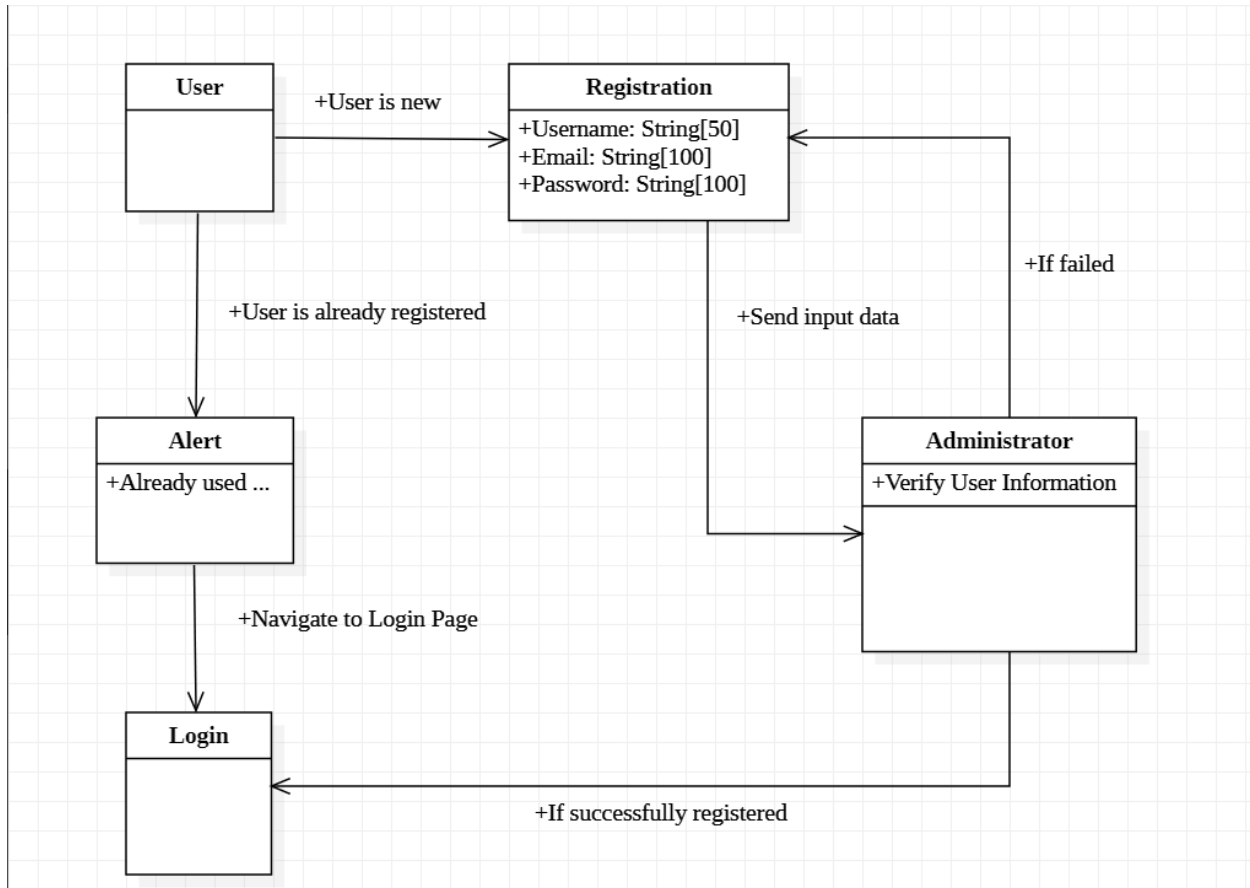
UML – Class Diagram – University Food System



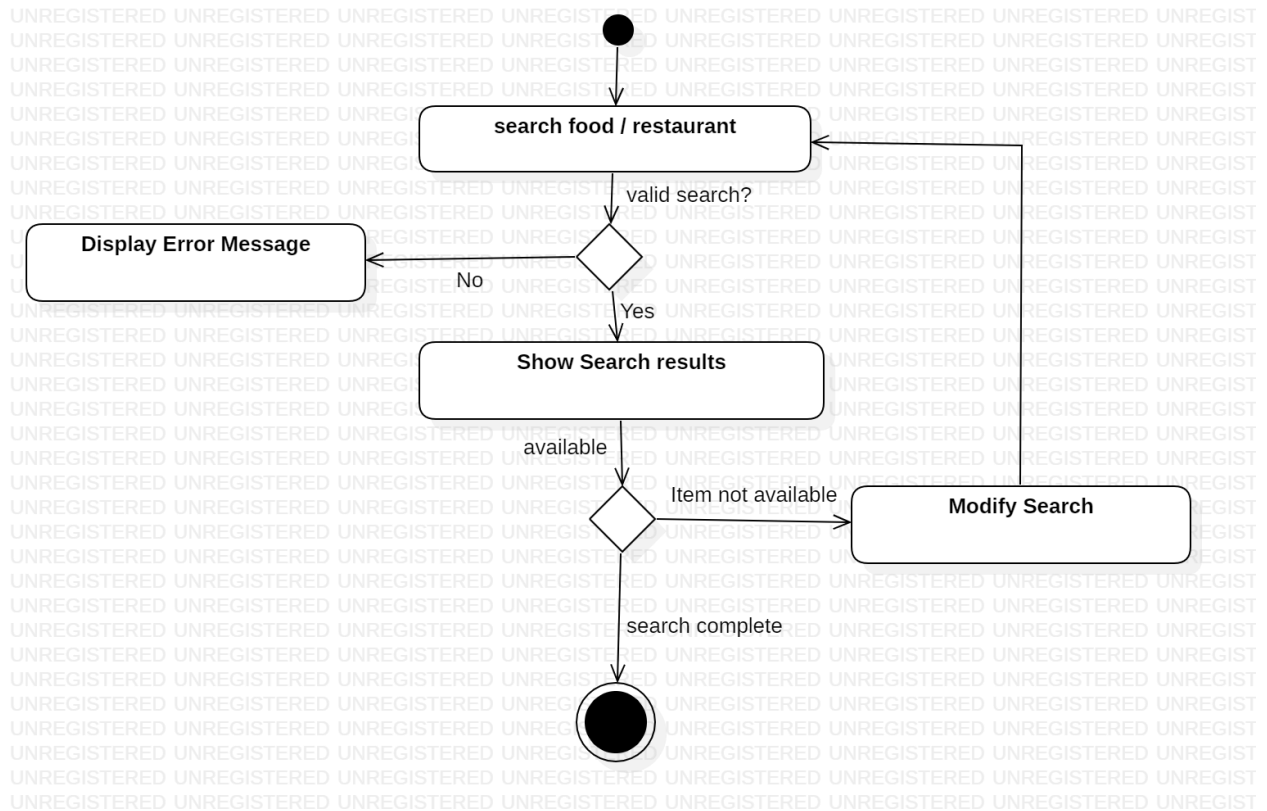
UML – State Transition Diagram – Login



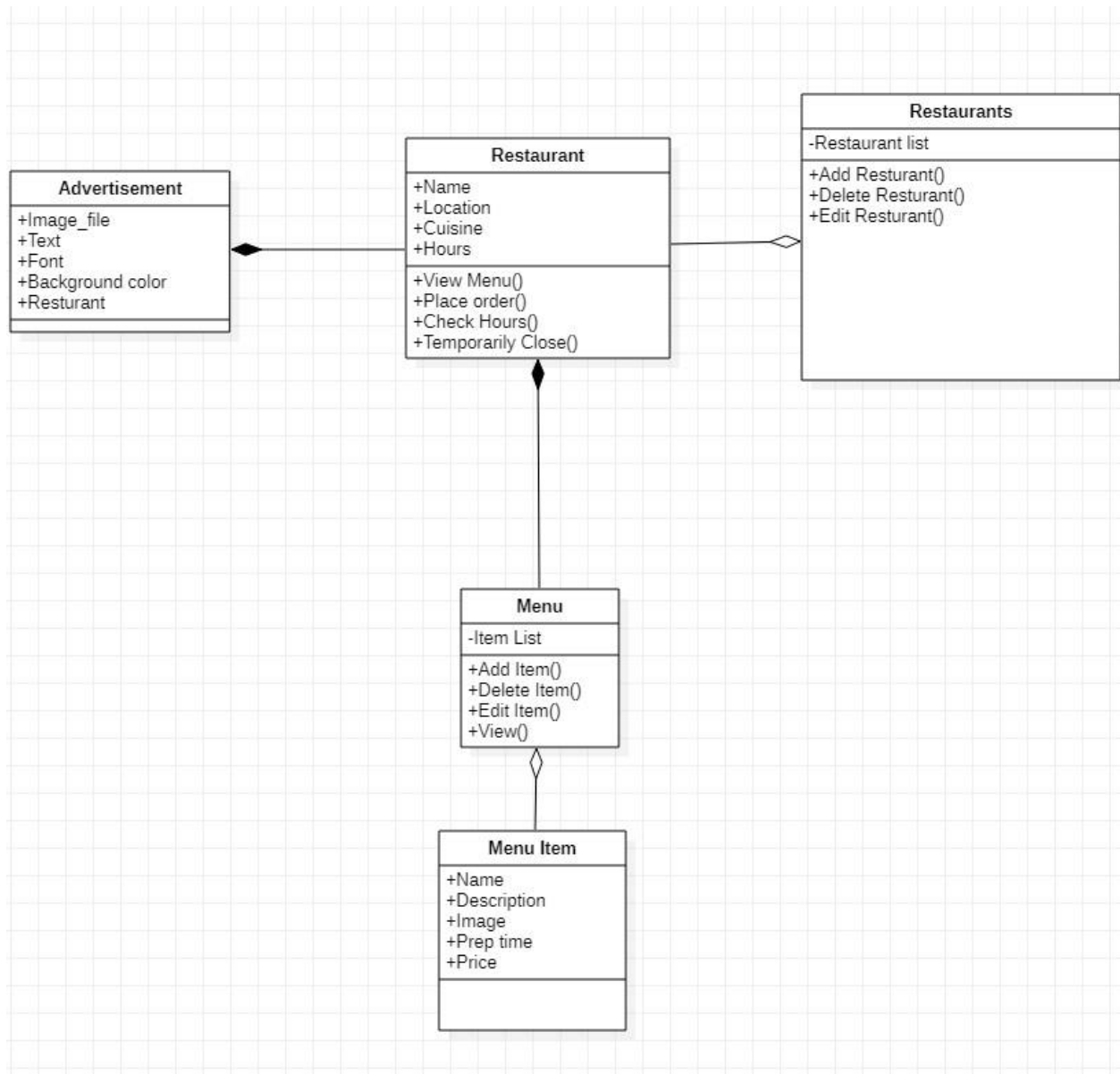
UML – State Transition Diagram – Registration



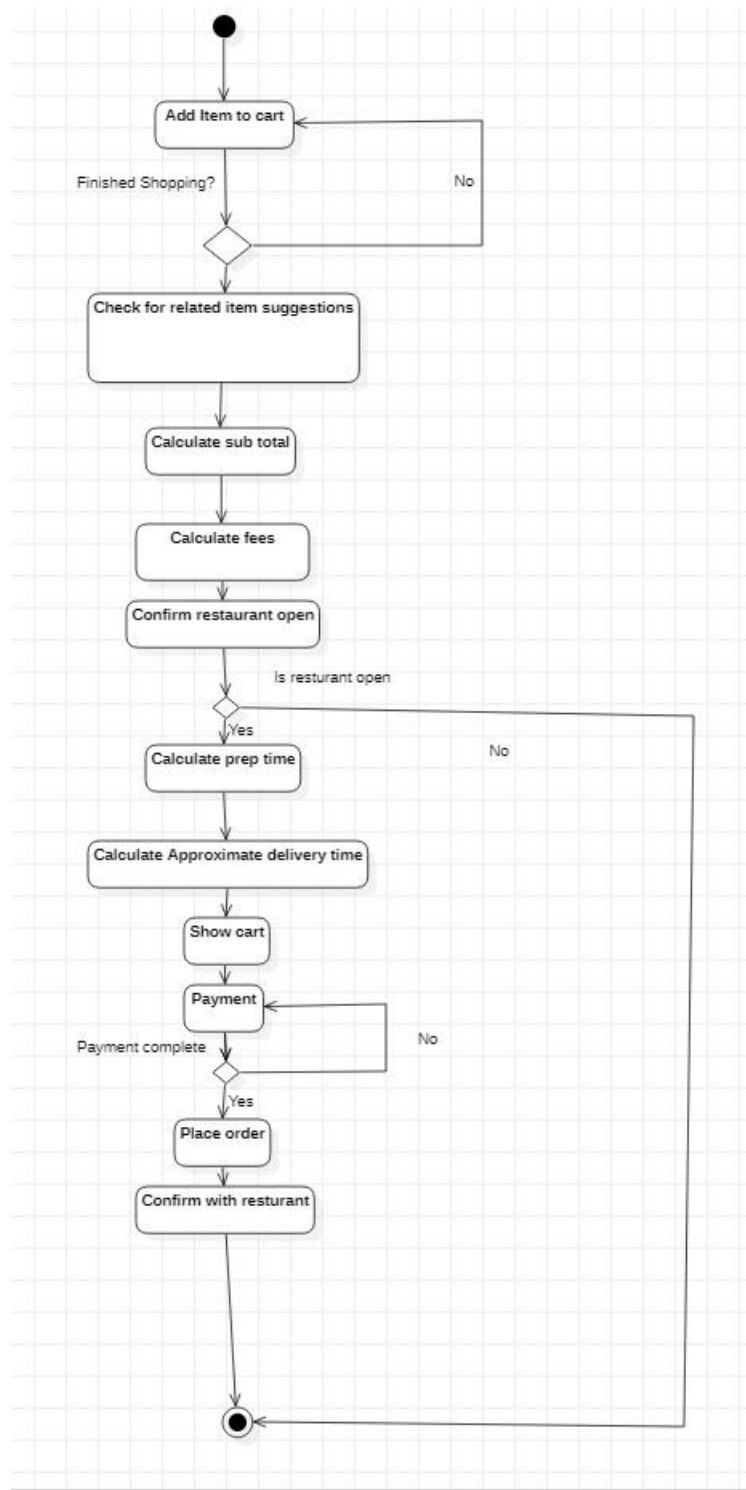
UML – Activity Diagram – Search



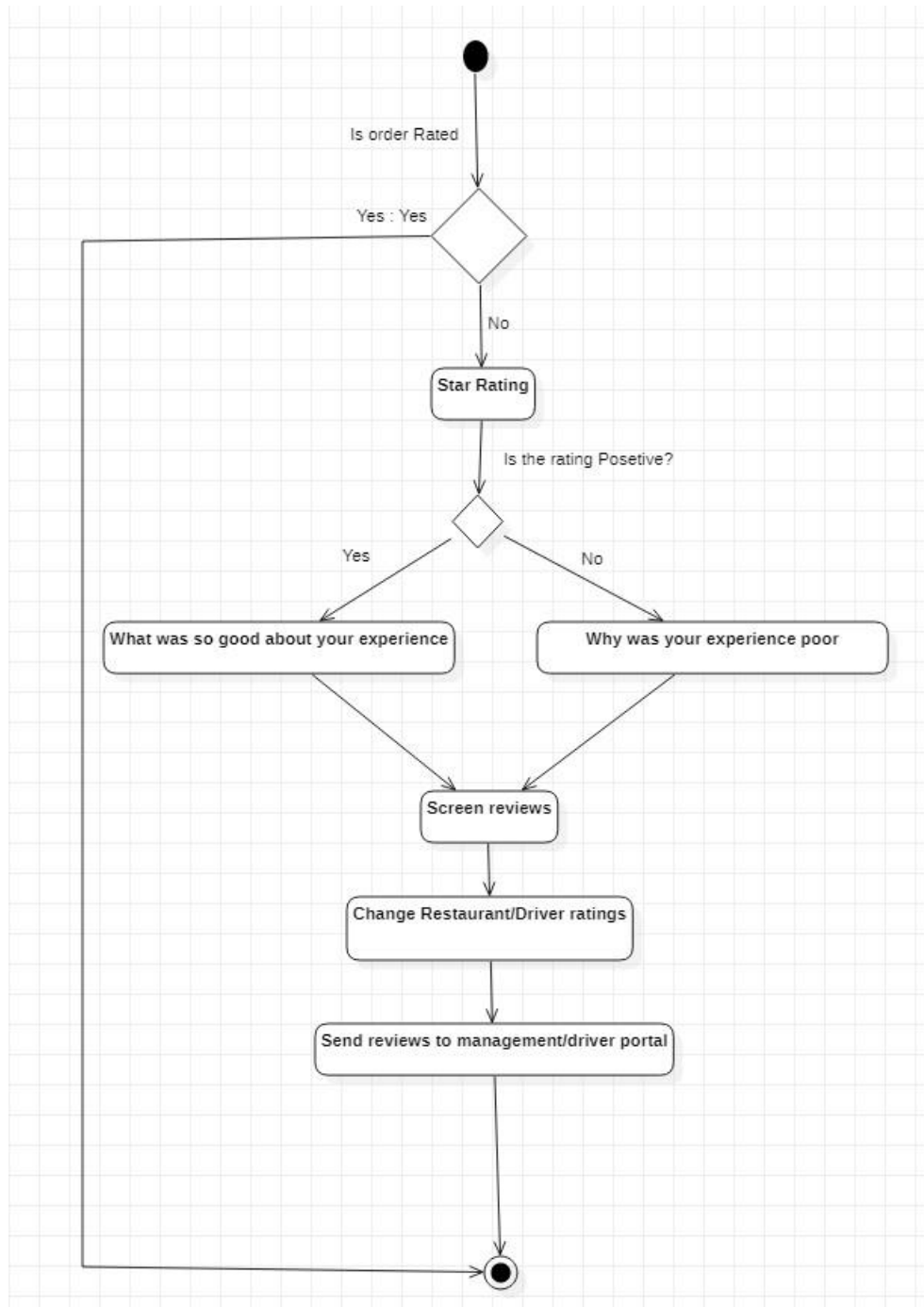
UML –Class Diagram – Restaurant and Advertisement



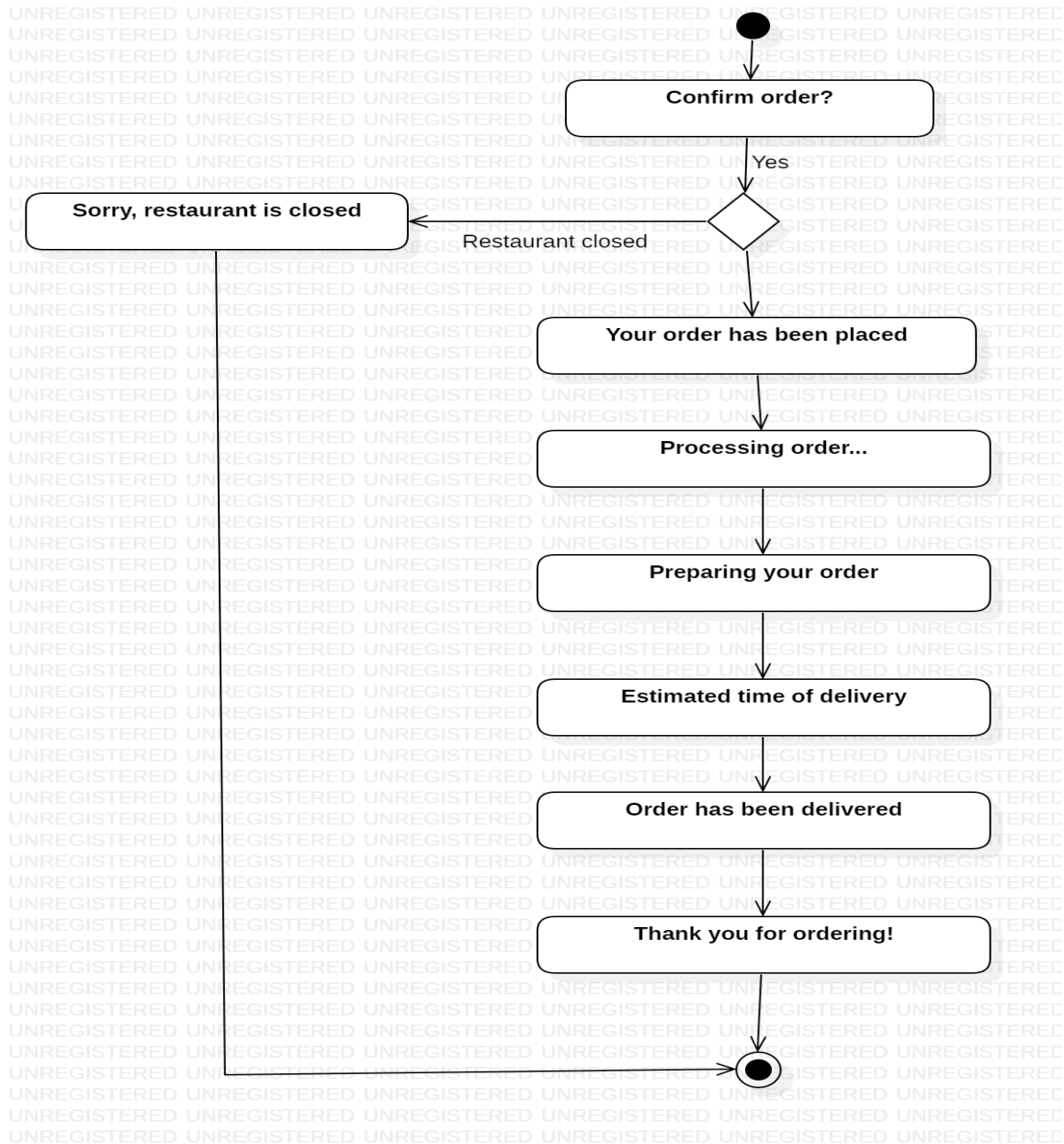
UML – State Transition Diagram – Order



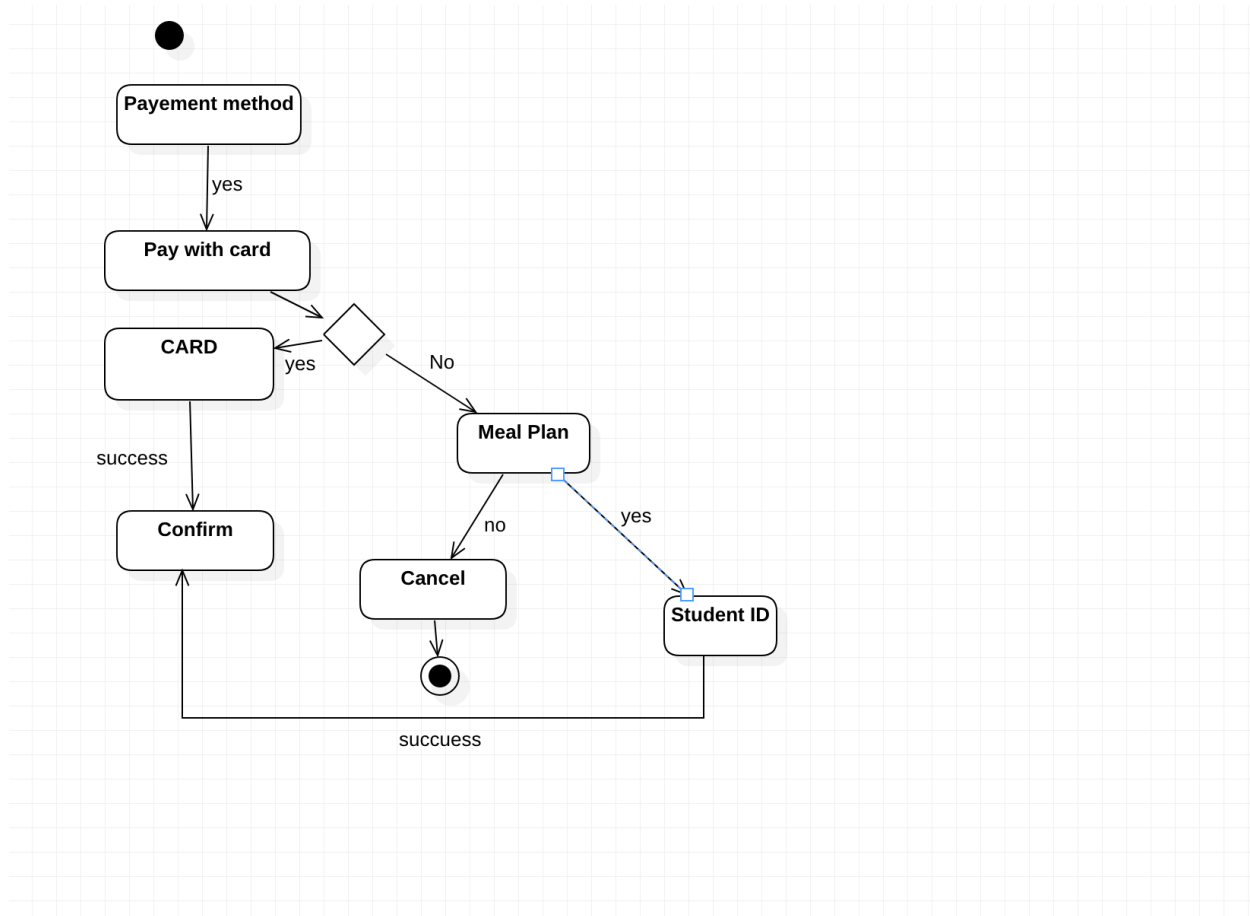
UML – State Transition Diagram – Ratings



UML – Activity Diagram – Communication



UML – State Transition Diagram – Payment



UML – State Transition Diagram – Delivery

