THE UNIVERSITY OF QUEENSLAND

AUSTRALIA

BISM 7255 – Business Information System Analysis and Design

Assessment: Project analysis and design assessment portfolio

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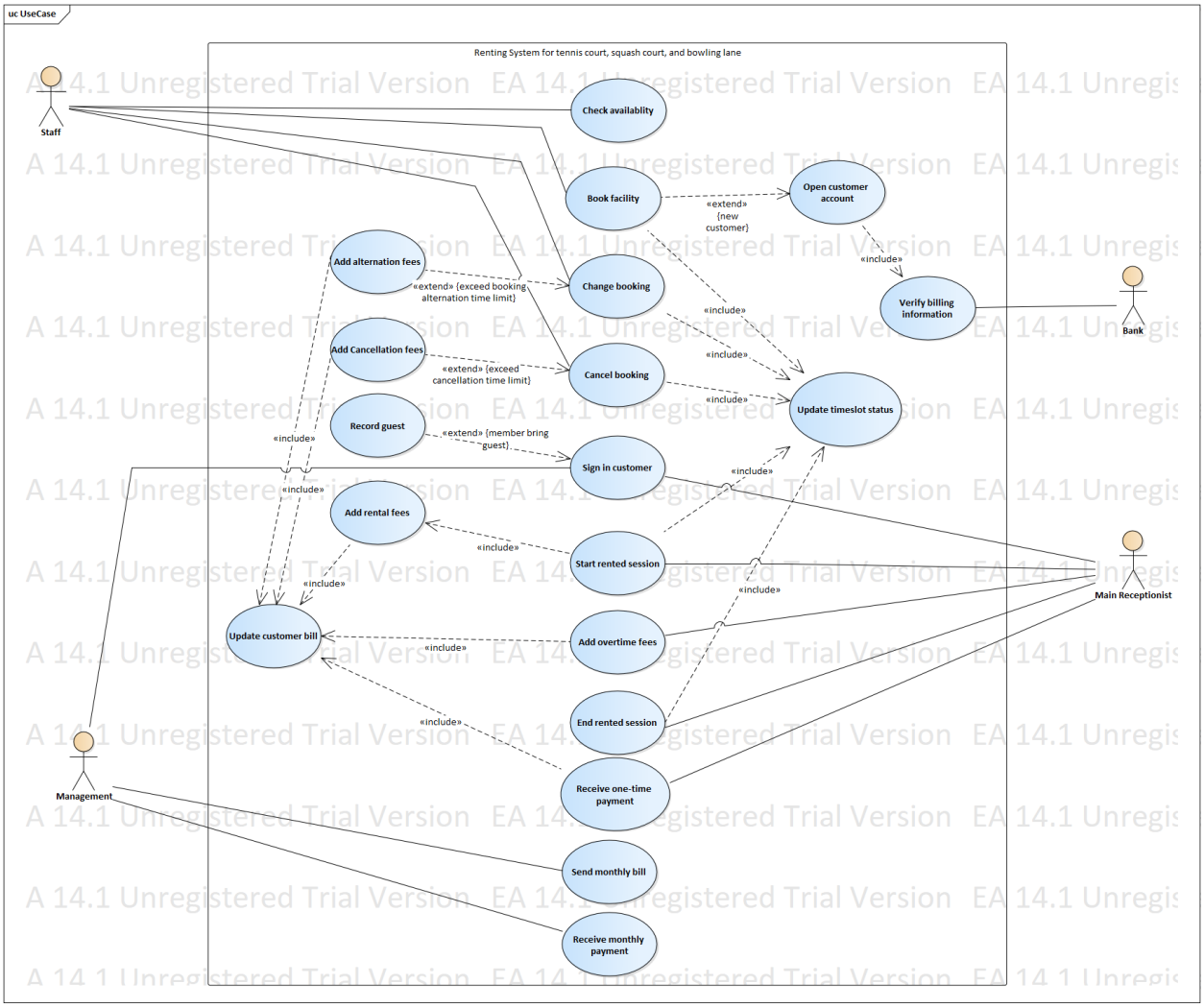
Overview

Kroko-Fit has a number of domains that can be benefit from the business information system. This report chooses two domains, “Renting”, and “Restaurant” since most of the problems occurring in the Kroko-Fit are related to those domains. Some of the problems are double booking, unavailable facilities, error in billing food and drinks, and long waiting time in restaurant. The report contains five diagrams for each domain which represent the case of the Kroko-Fit. However, assumptions as well as suggestions are made for each diagram in the report to complete the design.

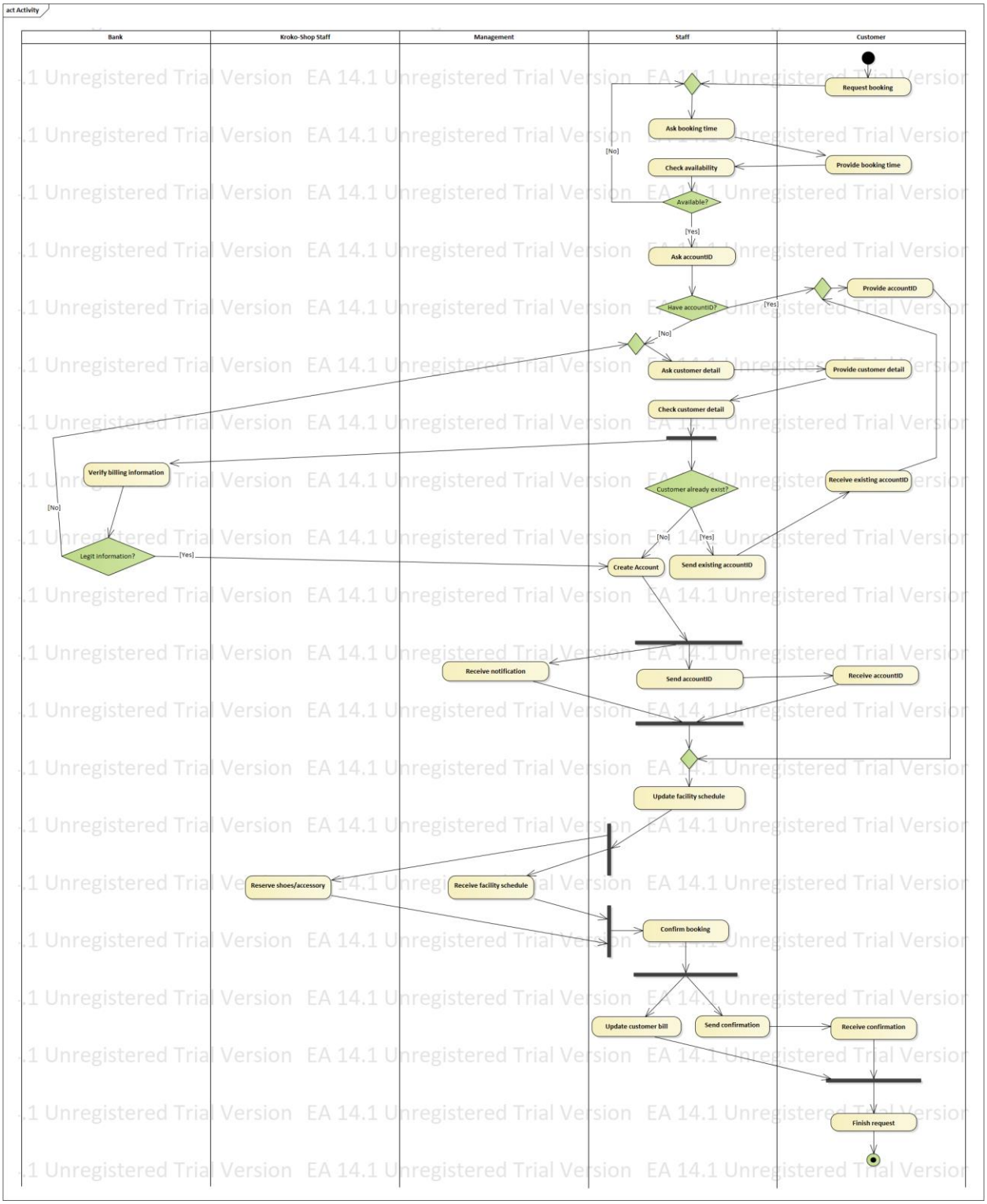
UML Diagrams for Renting Domain

Use Case Diagram – Renting System for tennis court, squash court, and bowling lane



- In order to solve the customer not showing up at booked time, the following are suggested –
    - Rental fees will be deducted when customer doesn't show up. (Customer account is created with billing information)
    - Cancellation and Booking changes can be made with certain rules and fees.
- Customer is not an actor because it does not use the system directly.
- Staff is the general term for any employee in Kroko-Fit who pick up the phone from customer.

Activity Diagram – Customer book a facility

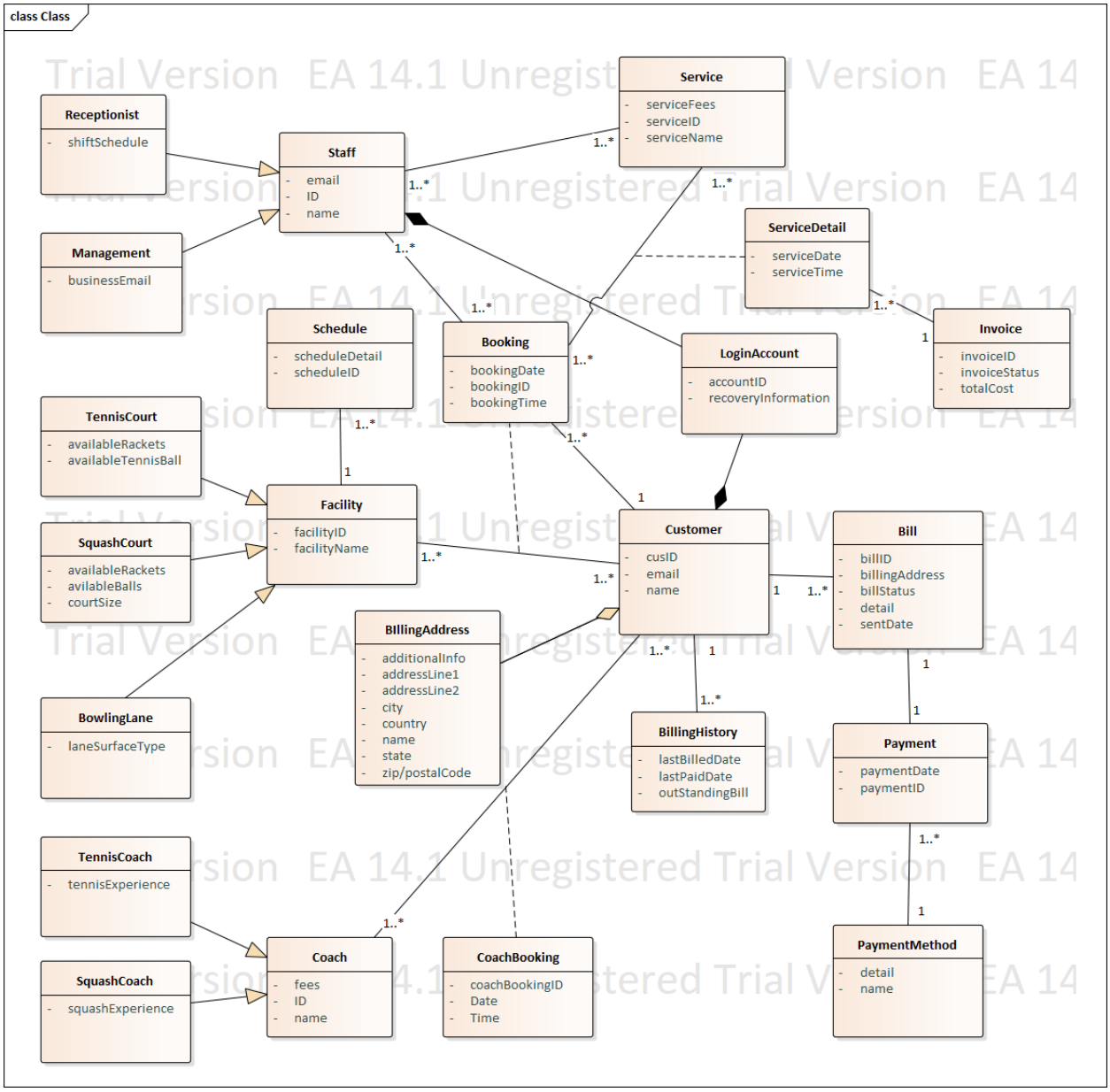


- In order to solve shoes missing, Kroko-shop staff reserve shoes/accessories when customer make a booking.
- It is assumed that management can receive notification whenever there is a new client.

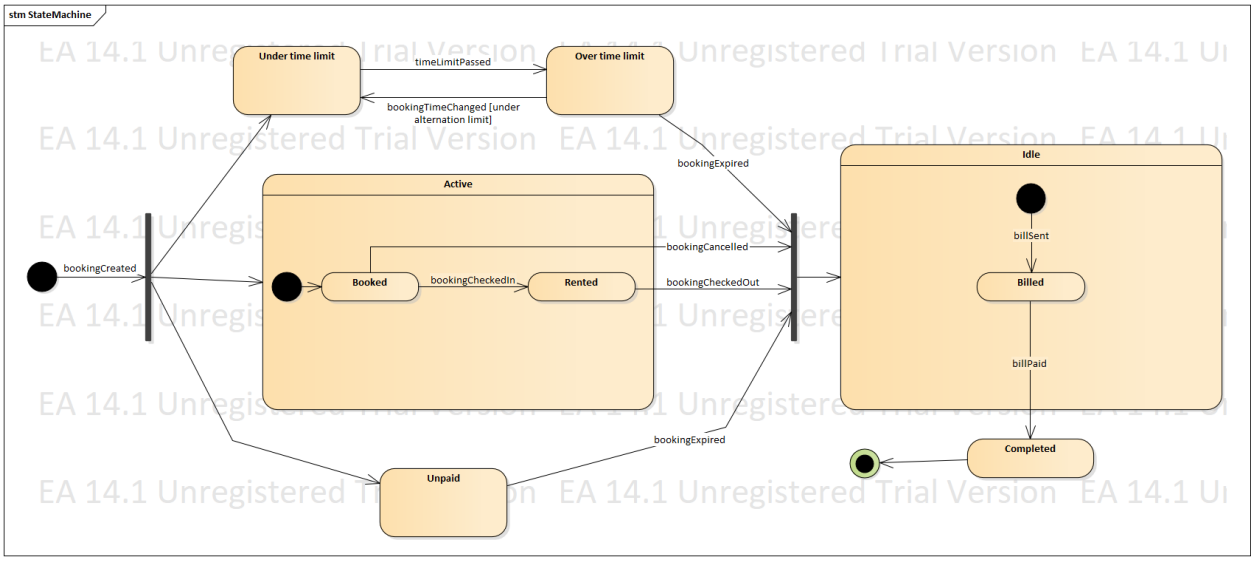
System Sequence Diagram – Altering Booking

- It is assumed that every service has serviceID and one-time payment can be made for each service. Every service used is added to the customer's monthly bill.

Domain Model Class Diagram –Booking System

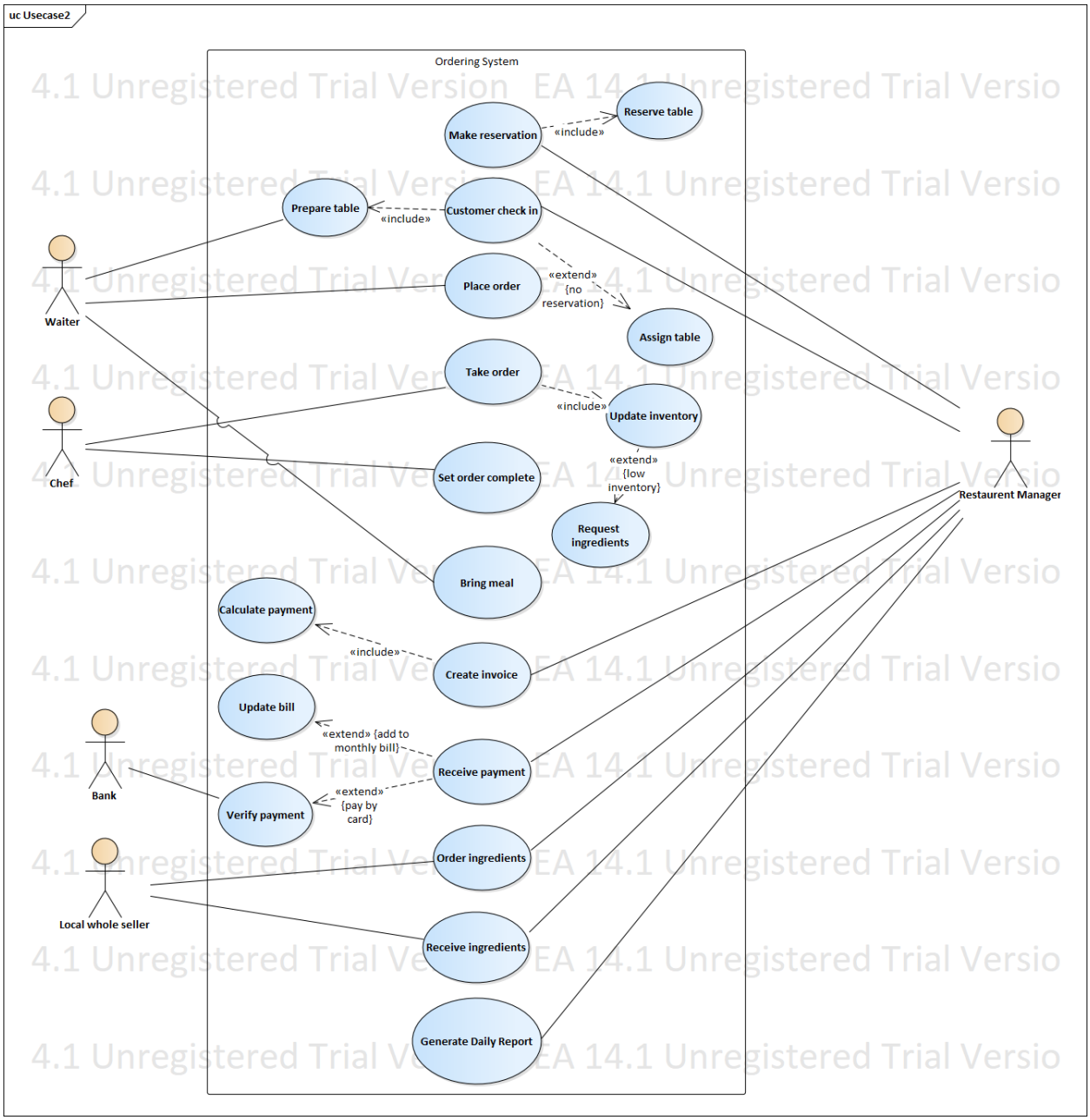


State Machine Diagram –Customer Booking



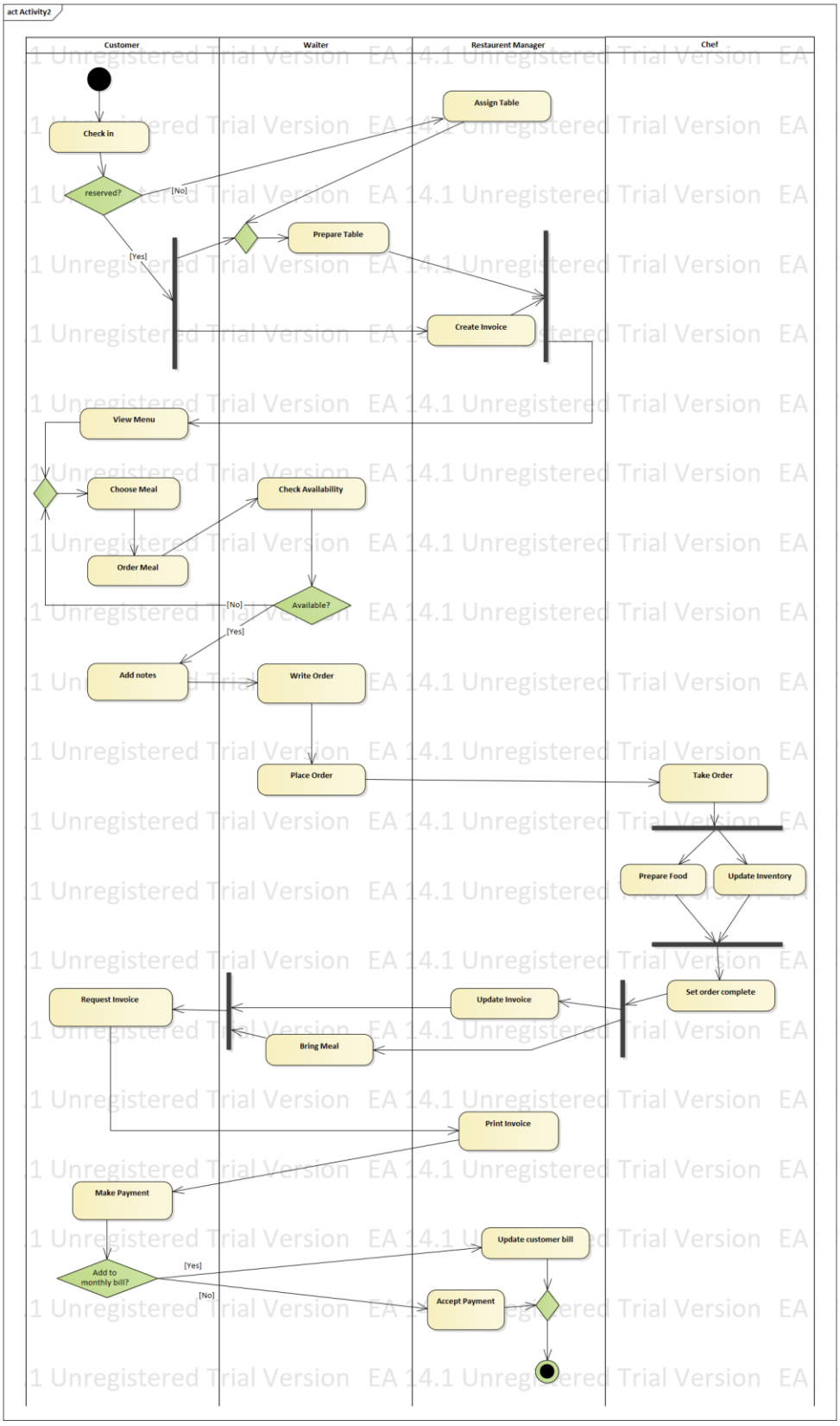
UML Diagrams for Restaurant Domain

Use Case Diagram – Ordering System

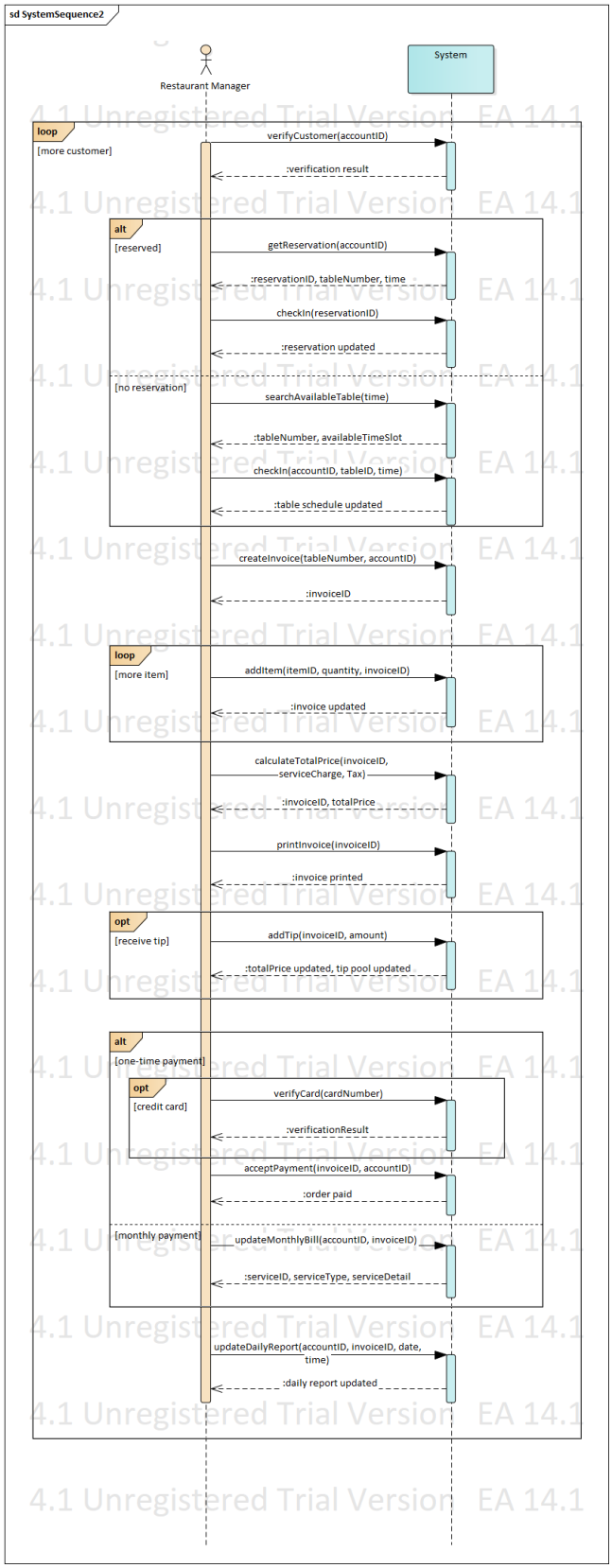


- In order to enhance payment, credit card transaction is added.
- It is assumed that chef is responsible for monitoring inventory and manager is responsible for ordering ingredients from seller.
- In order to solve the long waiting time in restaurant, generating daily report is added so it can be analyze to know which time periods are busier and require more staff.

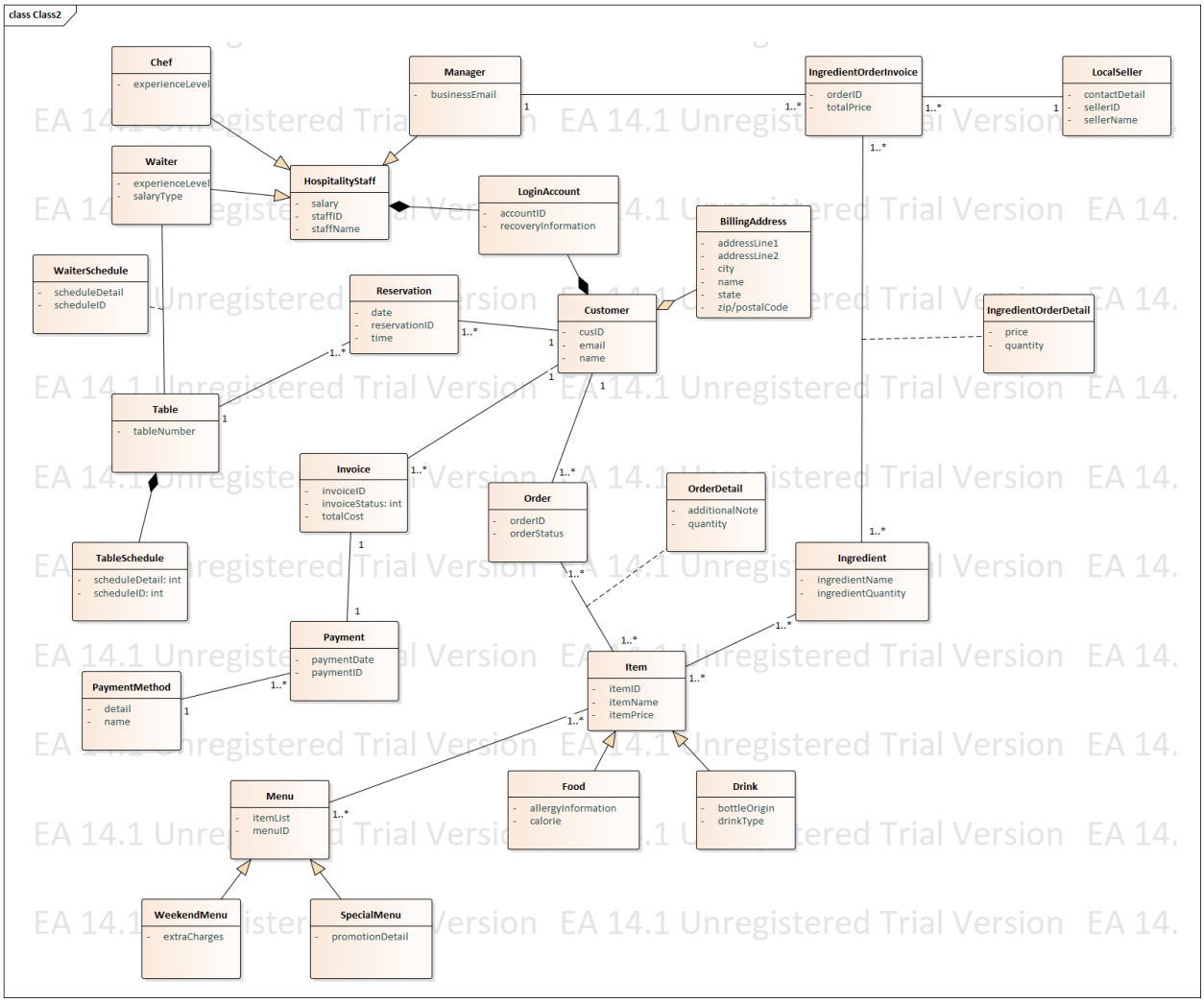
Activity Diagram – Customer check-in, order, and make payment in restaurant



System Sequence Diagram – Generating Invoice



Domain Model Class Diagram –Ordering System



State Machine Diagram – Customer Order