

Assignment 2 – Static Model

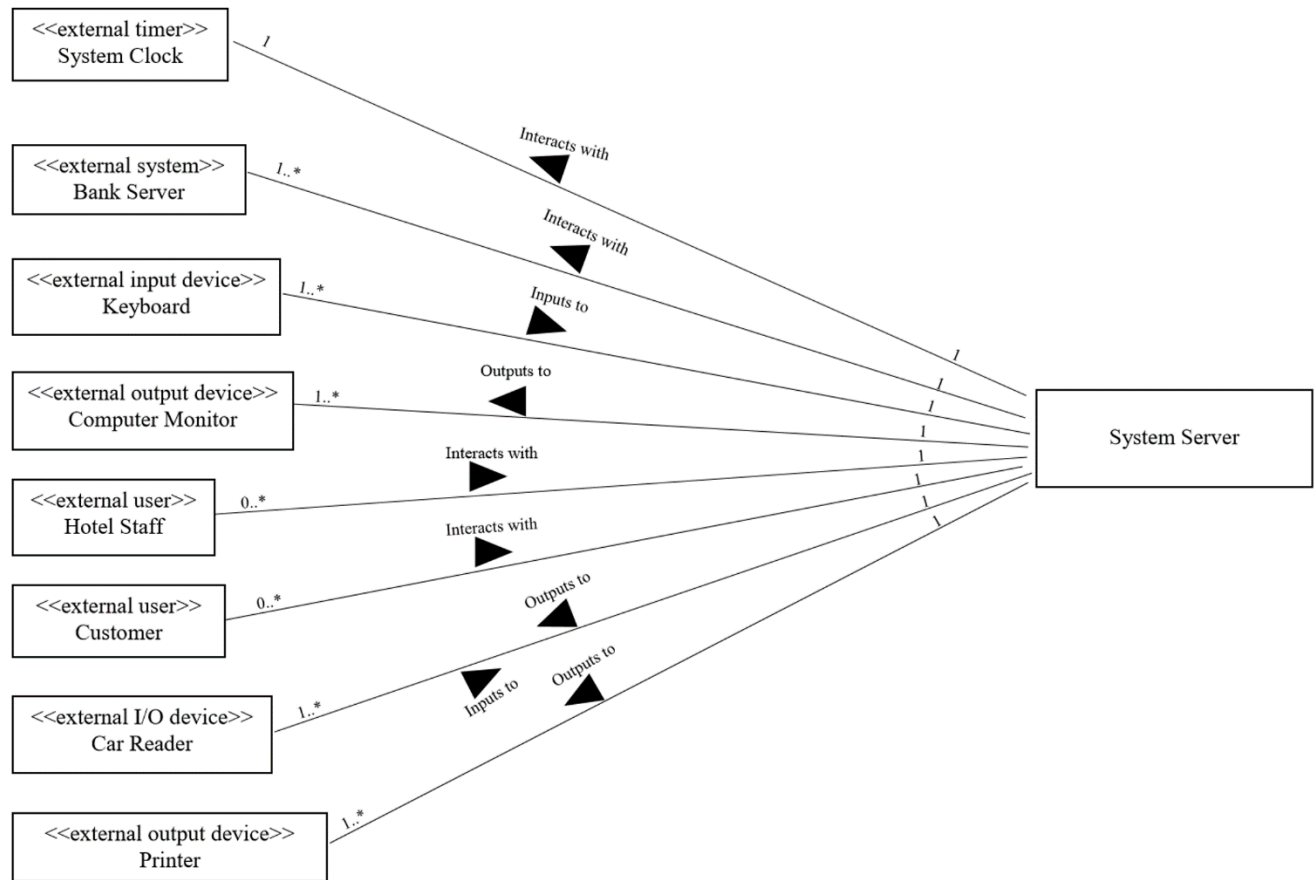
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2. Software System Context Class Model

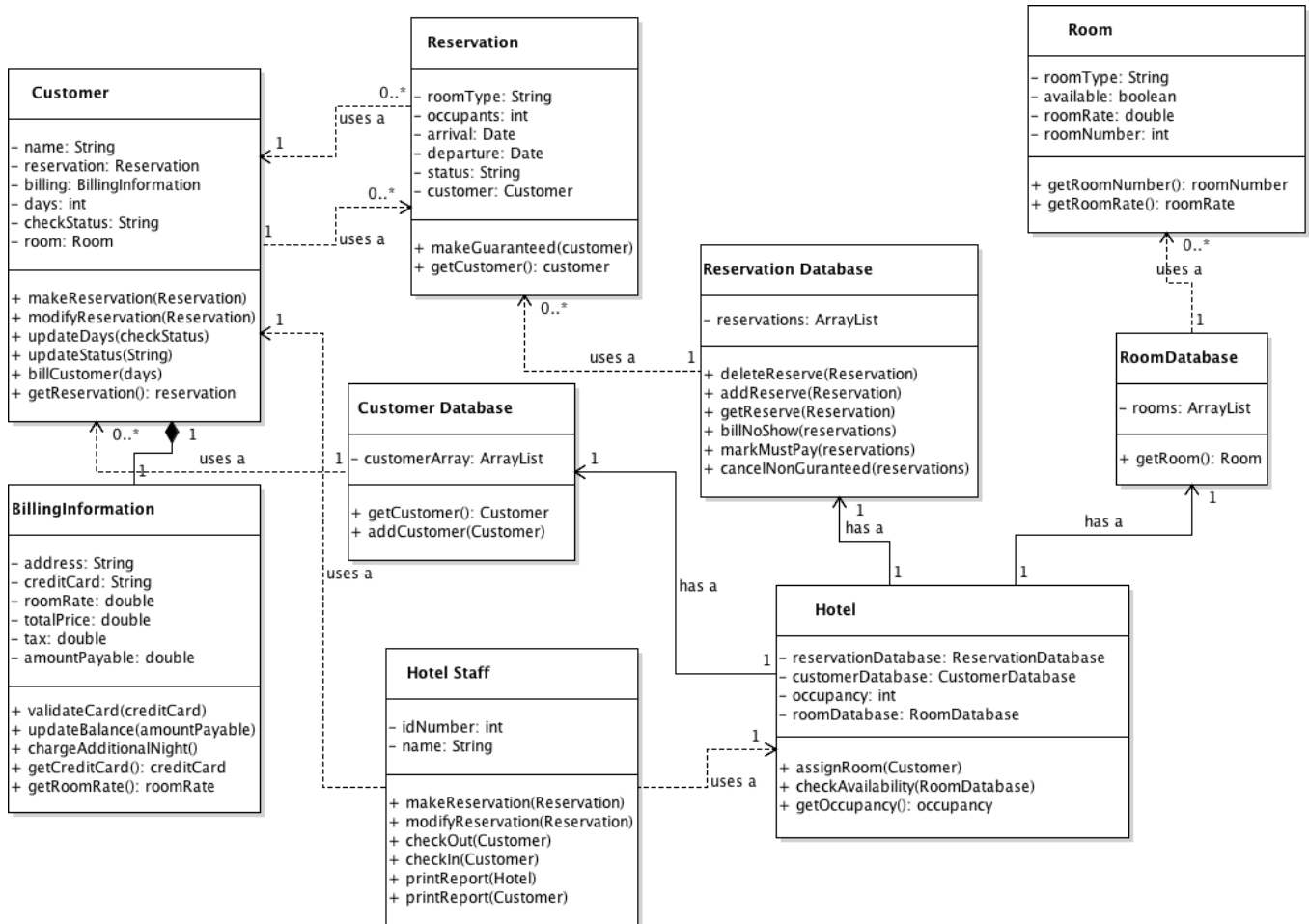
3. Static Model for Entity Classes

4. Purpose of Entity Classes

Software System Context Class Model



Static Model for Entity Classes



Purpose of Entity Classes

Customer: The Customer Class will store all information required for a given Customer (including an instance of the BillingInformation object and a Reservation object) and provide methods for modification of an individual Reservation, the Customer's fields, and billing the Customer through the use of BillingInformation.

BillingInformation: The BillingInformation Class will store all billing information required for a given Customer and provide methods for validating credit cards, updating balance, and adding additional charges to a Customer's balance.

CustomerDatabase: The CustomerDatabase will store all instances of Customer for the Hotel class and provide methods to add and get a given Customer.

Reservation: The Reservation Class will store all information required for a given Reservation (including an instance of the Customer object) and provide methods for Reservation status change and retrieving the corresponding Customer.

ReservationDatabase: The ReservationDatabase will store all instances of Reservation for the Hotel class and provide methods to modify a given Reservation and process billing for no-show guaranteed Reservations.

Room: The Room Class will store all information required for a given Room and provide methods for Room information retrieval.

RoomDatabase: The RoomDatabase will store all instances of Room for the Hotel class and provide a method to get a given Room's information.

HotelStaff: The HotelStaff Class will store all information required for a given HotelStaff and provide concrete methods for the HRS such as check-in, check-out, print report, and reservation modification.

Hotel: The Hotel Class will store all information about the HRS (such as Rooms, Reservations, and Customers) and provide methods to assign rooms, keep track of occupancy, and check availability.