

Database Technologies

Assignment-I

To Be Submitted by 19th Oct 2022

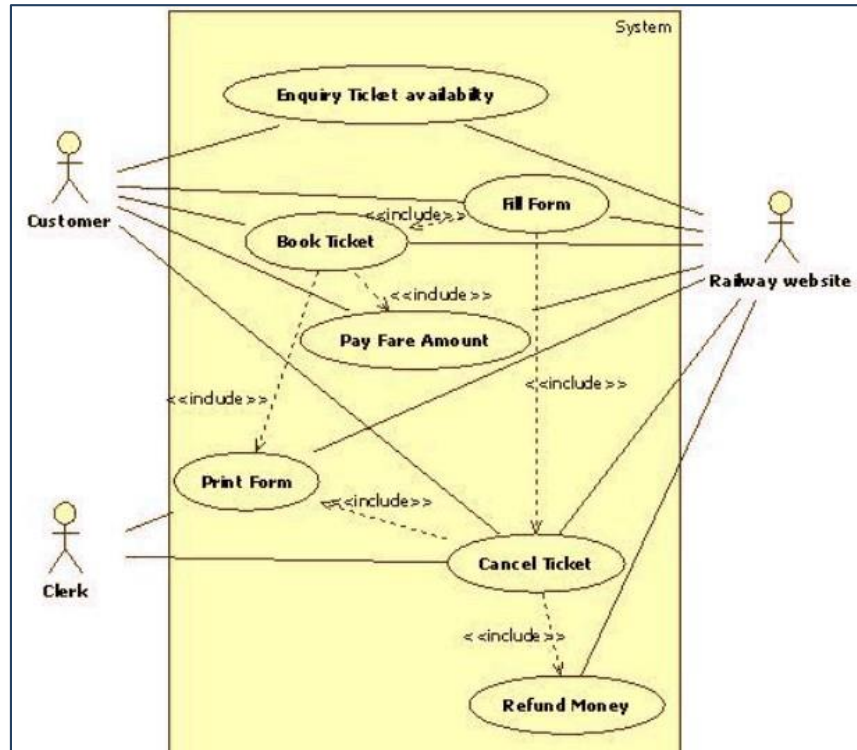
- I. Create Entity-Relation (E-R) Matrix and E-R Diagram for the given problem definition given below on Railway reservation case study.**

Problem statement for Railway reservation case study

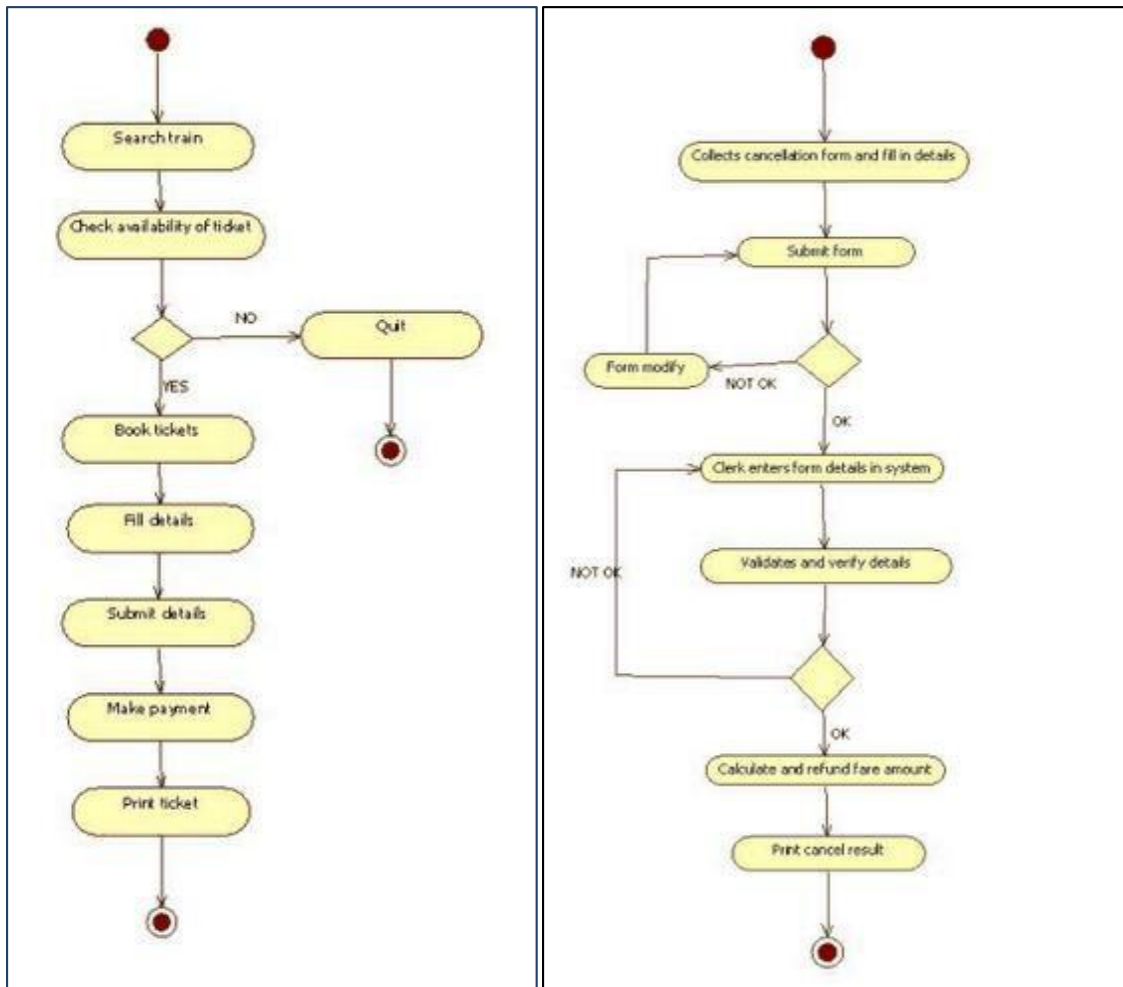
Railway Reservation system is used for booking tickets over internet. Any Passenger/customer can book the tickets for the required train. Train can be booked only if there are available seats. No RAC or Tatkal is supported in this scenario. Customer searches for the availability of tickets and books them only if the tickets are available by filling the details in a form. Tickets can be booked in two modes by i-ticket or by e-ticket booking.

In case of e-ticket booking both booking and cancelation of tickets are done online by the customer and the customer has to take print of the ticket. Amount for booking is deducted from the customer's account and for cancellation amount would be refunded to his account. In case of an i-ticket booking, the customer can book the tickets online and the tickets are couriered to particular customer at their address. For cancellation of i-ticket the customer has to go to the reservation office that fill cancellation form and ask the clerk to cancel the ticket than the refund is transferred to the customer's account. After booing ticket the customer has to logout.

Database Technologies



Database Technologies



Activity Diagram for Ticket for Booking Ticket and Cancellation of Ticket.