Model::.

Class Diagram for Railway Reservation System

Customer

-c_ID: int
-c_mobNum: int
-ticket: Ticket
-address: Address

+customer()
+updateCus_info(c_ID)
+deleteAccount(c_ID)
+buyTicket()
+cancleTicket()
+makePayment()
+Check(c_ID): boolean
+addCoustomer(Coustomer)
+log-in()

Administration

-officer_ID
-password: String

+Administration()
+manageSchedule(Time): void
+manageTrain(Train): void
+manageCustomer(Customer): void

Route

-destination: string
-train: Train

+Route()
+getDestination()
+displaywithTrainInfo()

1..*
1..*
1..*

1...2
1...3

Ticket

-ticket_id: int
-ticket_type: String
-date: Date
-customer: Customer

+ticket()
+addticket()
+cancle_ticket()
+search_ticket()
+display()

1
1...4

Train

-train_name: String
-train_ID: Int
-arrival_time: time
-departure_time: time
-routes: Route

+Train()
+update(train_name): void
+display(): void
+availability()
+reservedTicket()
+displayWithRouteInfo()

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1

Address

-district: String
-city: String
-postal_code: int

+Address()
+GetAddress()

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1...4

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Abstract_Reservation

-status: String
+train_no: int

+displayInfo()
+CheackAvailability()
+returnAmmoun(): int
+Abstract res_confirmed()
+Abstract res_cancelled()
+customer_seat_selection_manually()

Confirmed

+seat_no: Int

+res_confirmed()

Cancelled

-seat_no: int

+res_cancelled()
+return_half_money()

1...*

Registration

-user_name: String
-user_password: String
-address: Address
-id: int
-mobile_num: int

+register()
+addToTheCustomerList()

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Card

-card_num: int

+paybill()

Abstract_paymentMethod

-customer: Customer

+process(customer.id, ticket.id)
+Abstract_paybill()
+invoice()

Mobile_banking

+mobile_num: int

+paybill()