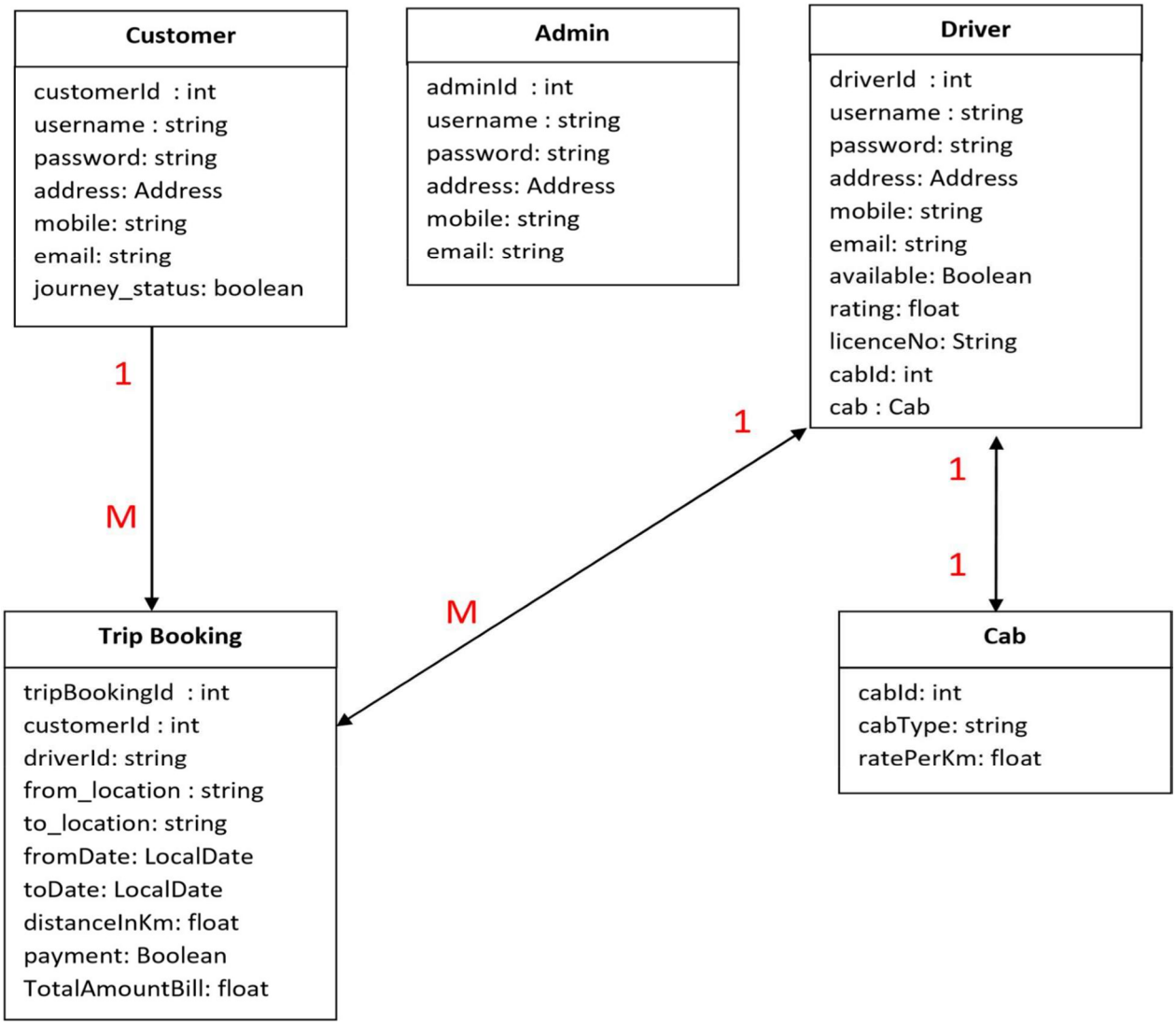
Class Design For Cab Booking Application



Service Interface Design:-

ICustomerService

+saveCustomer(Customer customer) : Customer
+updateCustomer(Customer customer) : Customer
+deleteCustomer(int customerId) : void
+viewCustomers(): List<Customer>
+viewCustomers(int customerId):Customer
+validateCustomer(username, password): Customer
+getTripsById(int tripId): TripResponse
+Book(TripBooking tripBooking) : TripBooking
+calculateBill(int customerId) : float

IDriverService

+insertDriver(Driver driver): Driver
+updateDriver(Driver driver) : Driver
+getAll(): List<Driver>
+getDriverById(int driverId) : Driver
+deleteDriverById(int driverId) : String
+viewBestDriver(): List<Driver>
+findBYAvailable(): List<Driver>

viewBestDrivers retuns list
of drivers having rating>=4.5

IAdminService

+createAdmin(Admin admin) : Admin
+editAdmin(Admin admin) : Admin
+deleteAdmin(int adminId) : void
+insertDriver(Driver driver): Driver
+updateDriver(Driver driver) : Driver
+getAllDriver(): List<Driver>
+getDriverById(int driverId) : Driver
+deleteDriverById(int driverId) : String
+deleteCustomer(int customerId) : void
+viewCustomers(): List<Customer>
+getAllTrip(): List<TripResponse>
+getTripsCustomerWise(int customerId): List<TripResponse>
+getTripsDriverWise(int driverId): List<TripResponse>
+insertCab(Cab cab): Cab
+updateCab(Cab cab) : Cab
+getAllCab(): List<Cab>
+getCabById(int cabId) : Cab
+deleteCabById(int cabId) : String

ITripService

+addTrip<TripBooking tripBooking> : TripBooking
+updateTrip<TripBooking tripBooking>: TripBookink
+deleteTrip(int tripId): String
+getTripById(int tripId): TripResponse
+tripEnd(int tripId): String
+getAllTrip(): List<TripResponse>
+getTripsCustomerWise(int customerId): List<TripResponse>
+getTripsDriverWise(int driverId): List<TripResponse>
+caculateBill(int customerID): float

ICabService

+insertCab(Cab cab): Cab
+updateCab(Cab cab) : Cab
+getAllCab(): List<Cab>
+getCabById(int cabId) : Cab
+deleteCabById(int cabId) : String