

# Zwischenpräsentation CARHUB360

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Team MRA Java 1

# Gliederung



- 1. Ideevorstellung
- 2. Gesamtarchitektur
- 3. Teamorganisation

## Ideevorstellung



### CarHub360

- Ein Projekt für einen Autohandel, der sowohl Autos verkauft, als auch verleiht.
- Es soll die Verwaltung von Verträgen, Kunden und Fahrzeugen vereinfachen.
- Soll die Verwaltung von Rechnungen,
  Zahlungen, und Buchführung automatisieren.

## Gesamtarchitektur



### CarHub360

#### Customer

- Customerld : int
- FirstName : String
- LastName: String
- Email: String
- Birthdate: date
- IsFemale: boolean
- + CreateCustomer (Customerld: int. FirstName: String, LastName: String,
- Email: String, Birthdate: date,
- IsFemale: boolean, PaymentMethod: String)
- + DeleteCustomer (CustomerId: int)
- + GetCustomerDetails(CustomerId: int)

#### CustomerHistory

- CustomerHistoryId: int
- CustomerHistoryCustomerId : int
- CustomerHistoryVehicleId: int
- CustomerHistoryReview: enum(1, 2, 3, 4, 5)
- Description : String
- ActionDate : date - IsForRentalCar : boolean
- + CreateCustomerHistory (CustomerHistoryId: int, CustomerHistoryCustomerID: int, CustomerHistoryStatus: enum(1, 2, 3, 4, 5), Description: String, ActionDate: date, IsForRentalCar: boolean)
- + GetCustomerHistory (CustomerHistoryId : int)
- + GetCustomerFinalReview (CustomerHistoryld: int)

#### **CustomerAddress**

- Customerld : int
- City: String
- PostalCode : String
- Street : String
- StreetNumber : String
- + UpdateCustomerAdress (CustomerId: int,
- City: String, PostalCode: String, Street: String, StreetNumber: String)
- + GetCustomerAdress(CustomerId: int)

#### Vehicle

- VehicleId : int
- Name : String
- Brand : String
- KilometerCount : int
- ConstructionYear : int
- Type : String
- + CreateVehicle (VehicleId: int, Name: String, Brand: String, Kilometer Count: int, ConstructionYear: int,Type: String)
- + DeleteVehicle (VehicleId : int)

#### RentVehicle

SaleVehicle

RentVehicleId: int

- VehicleId: int

- IsNew: boolean

- SalePrice : BigDecimal

- RentVehicleVehicleId: int isAvailable: boolean
- DailyPrice: BigDecimal
- LicensePlate : String
- Startdate: date
- Enddate: date
- Deposit: BigDecimal
- + GetTotalPrice (Startdate: date. Enddate: date)

#### Contract

- ContractID: int
- ContractCustomerId: int
- ContractVehicleId: int
- IsRentalContract: boolean
- ContractSaleDate: date
- RentalStartdate : date
- RentalEnddate : date
- + CreatePurchaseContract(ContractID: int, ContractCustomerId: int. ContractVehicleId: int. ContractSaleDate: date)
- + CreateRentalContract(ContractID: int, ContractCustomerId: int. ContractVehicleId: int. RentalStartdate: date.RentalEnddate: date)
- + TerminateRentalContract(ContractID: int)
- + RenewRentalContract(ContractID: int)
- + GetRentalContractDetails(ContractID: int)
- + GetPurchaseContractDetails(ContractID: int)

#### **Payment**

- PaymentID: int
- PaymentCustomerID: int
- PaymentMethod: enum (Cash, PayPal, CreditCard)
- PaymentStatus: enum (In Process, Closed, Open)
- IsRentalPayment: boolean
- PaymentAmount: BigDecimal
- + ProcessPayment (PaymentID: int, PaymentCustomerID: int, SetPaymentMethod: PaymentMethod,SetPaymentStatus:PaymentStatus, IsRentalPayment: boolean,PaymentAmount: BigDecimal)
- + GetPaymentDetails(PaymentID: int, PaymentCustomerID: int)

#### Maintenance

- Maintenanceld: int
- MaintenanceVehicleId: int
- MaintenanceStartDate: date MaintenanceEndDate: date
- MaintenanceCost: BigDecimal
- MaintenanceDescription: String

# Teamorganisation



Rudolf Minz	Marc Praus	Mohammad Taiba
<ul><li>Customer</li><li>CustomerAddress</li><li>CustomerHistory</li></ul>	<ul><li>Vehicel</li><li>ForRent</li><li>ForSale</li><li>Maintaince</li></ul>	<ul><li>Contract</li><li>Payment</li></ul>

#### Meeting:

- Über Discord
- Wöchentliches treffen am Mittwoch 19:00
- Besprechung des Fortschritts



# Vielen Dank für Ihre Aufmerksamkeit!