# <<Interface>> IAccountService

- + addOrUpdate(AccountDTO): AccountDTO
- + delete(AccountDTO): void
- + findAll(void): List<AccountDTO>
- + findByld(String): AccountDTO
- + findByUsername(String): AccountDTO
- + findByRole(String): List<AccountDTO>
- + findBanned(void): List<AccountDTO>
- + findDeleted(void): List<AccountDTO>

#### AccountService

- accountRepository: AccountRepository

# <<interface>> IVehicleService

- + addOrUpdate(VehicleDTO): VehicleDTO
- + delete(VehicleDTO): void
- + findAll(void): List<VehicleDTO>
- + findByld(String): VehicleDTO

#### VehicleService

- vehicleRepository: VehicleRepository

# <<Interface>> IUserService

- + addOrUpdate(UserDTO): UserDTO
- + delete(UserDTO): void
- + findAll(void): List<UserDTO>
- + findByld(String): UserDTO
- + findByLastName(String): List<UserDTO>
- + findByAccount(AccountDTO): UserDTO

#### UserService

+ findByAccountUsername(AccountDTO): UserDTO

- userRepository: UserRepository

# <<Interface>> IRatingService

- + addOrUpdate(RatingDTO): RatingDTO
- + delete(RatingDTO): void
- + findAll(void): List<RatingDTO>
- + findByld(String): RatingDTO

### RatingService

- ratingRepository: RatingRepository

# 

 $\hbox{-} image Storage Repository: II mage Storage Repository \\$ 

#### <<Interface>> **IRunService**

- + addOrUpdate(RunDTO): RunDTO
- + delete(RunDTO): void
- + findAll(void): List<RunDTO>
- + findByld(String): RunDTO
- + findByDriver(UserDTO): List<RunDTO>
- + findNotCancelledByDriver(UserDTO): List<RunDTO>
- + findByPassenger(UserDTO): List<RunDTO>
- + findNotCancelledByPassenger(UserDTO): List<RunDTO>
- + findByUser(UserDTO): List<RunDTO>
- + findNotCancelledByUser(UserDTO): List<RunDTO>
- + findCurrentByUser(UserDTO): List<RunDTO>
- + findCurrentNotCancelledByUser(UserDTO): List<RunDTO>
- + findPassedByUser(UserDTO): List<RunDTO>
- + findPassedNotCancelledBvUser(UserDTO): List<RunDTO>
- + find(String, String, Date, String, String): List<RunDTO>

#### RunService

- runRepository: RunRepository

## <<Interface>>

<<Interface>>

**ISubRunService** 

+ addOrUpdate(SubRunDTO): SubRunDTO

SubRunService

- subRunRepository: SubRunRepository

+ delete(SubRunDTO): void

+ findAll(void): List<SubRunDTO>

+ findByld(String): SubRunDTO

### **IPassengerService**

- + addOrUpdate(PassengerDTO): PassengerDTO
- + delete(PassengerDTO): void
- + findAll(void): List<PassengerDTO>
- + findByld(String): PassengerDTO
- + findByUser(UserDTO): PassengerDTO

#### <<Interface>> **IWayPointService**

- + addOrUpdate(WayPointDTO): WayPointDTO
- + delete(WayPointDTO): void
- + findAll(void): List<WayPointDTO>
- + findByld(String): WayPointDTO
- + findByDistrict(String): List<WayPointDTO> + findByTown(String):: List<WayPointDTO>
- + findByPostCode(String): List<WayPointDTO>

#### WayPointService

- wayPointRepository: WayPointRepository

#### PassengerService

- PassengerRepository: PassengerRepository

#### <<Interface>> **ITollService**

- + addOrUpdate(TollDTO): TollDTO
- + delete(TolIDTO): void
- + findAll(void): List<TollDTO>
- + findByld(String): TolIDTO

### **TollService**

- tollRepository: TollRepository

#### <<Interface>> **IRunPriceService**

- + addOrUpdate(RunPriceDTO): RunPriceDTO
- + delete(RunPriceDTO): void
- + findAll(void): List<RunPriceDTO>
- + findByld(String): RunPriceDTO
- + findByPower(int): RunPriceDTO



runPriceRepository: RunPriceRepository

#### <<Interface>>

#### **ITransactionService**

- + addOrUpdate(TransactionDTO): TransactionDTO + delete(TransactionDTO): void
- + findAll(void): List<TransactionDTO>
- + findByld(int): TransactionDTO
- + findByReceiver(int): TransactionDTO
  + findByReceiver(int): List<TransactionDTO>
  + findByReceiver(int): List<TransactionDTO>
  + findByReceiver(int): List<TransactionDTO>
  + findByReceiver(int): List<TransactionDTO>
   findByReceiver(int): List<TransactionDTO>

- + findByTransactionDateAndSenderId(DateTime, String): List<TransactionDTO> + findByTransactionDateAndReceiverId(DateTime, String): List<TransactionDTO> + findBySenderIdAndReceiverId(String, String): List<TransactionDTO>
- + findByTransactionDateAndState(DateTime, TxState): List<TransactionDTO>

#### **TransactionService**

- transactionRepository: TransactionRepository