Model
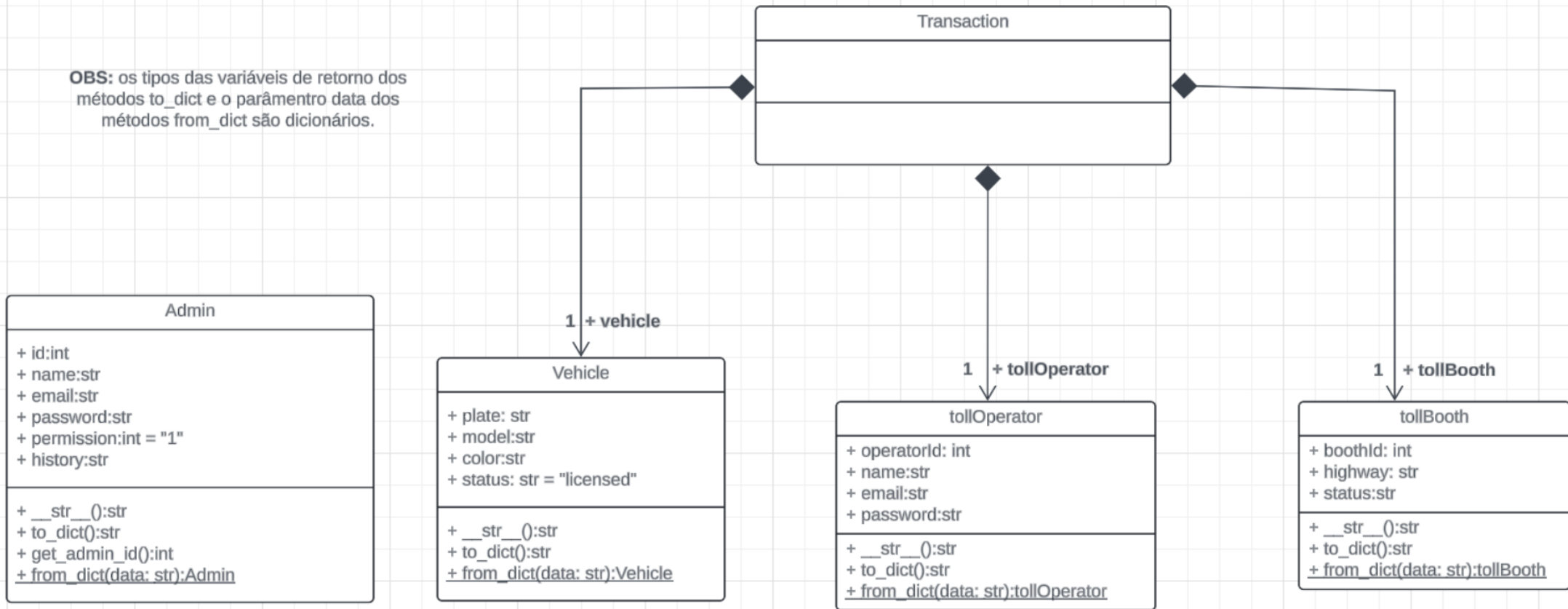
OBS: os tipos das variáveis de retorno dos métodos to_dict e o parâmentro data dos métodos from_dict são dicionários.

Transaction

Admin

Admin
+ id:int
+ name:str
+ email:str
+ password:str
+ permission:int = "1"
+ history:str
+ __str__():str
+ to_dict():str
+ get_admin_id():int
+ from_dict(data: str):Admin

1 + vehicle

Vehicle
+ plate: str
+ model:str
+ color:str
+ status: str = "licensed"
+ __str__():str
+ to_dict():str
+ from_dict(data: str):Vehicle

1 + tollOperator

tollOperator
+ operatorId: int
+ name:str
+ email:str
+ password:str
+ __str__():str
+ to_dict():str
+ from_dict(data: str):tollOperator

1 + tollBooth

tollBooth
+ boothId: int
+ highway: str
+ status:str
+ __str__():str
+ to_dict():str
+ from_dict(data: str):tollBooth

Data

DataManager

+ admins: Admin[]
+ vehicles: Vehicle[]
+ tollOperators: TollOperator[]
+ tollBooths: TollBooth[]

+ load_data():void
+ insert_vehicle(vehicle: Vehicle): void
+ delete_vehicle(vehicle: Vehicle): void
+ find_vehicle(plate: str): Vehicle
+ close(): void
+ insert_admin(admin: Admin): void
+ delete_admin(admin: Admin): void
+ find_admin(email: str): Admin
+ insert_tollOperator(tollOperator: TollOperator): void
+ delete_tollOperator(tollOperator: TollOperator): void
+ find_tollOperator(email: str): TollOperator
+ insert_tollBooth(tollBooth: TollBooth): void
+ delete_tollBooth(tollBooth: TollBooth): void
+ find_tollBooth(boothid: int): TollBooth

Control

MainControl

+ dataManager: DataManager

+ add_vehicle(vehicle:Vehicle): void
+ remove_vehicle(vehicle:Vehicle):void
+ find_vehicle(plate:str):Vehicle
+ get_all_vehicle(): Vehicle[]
+ find_vehicle_by_model(model: str): Vehicle[]
+ login(email: str, password: str)
+ close_data_manager():void
+ get_all_admins(): Admin[]
+ find_admin_by_name(name: str):Admin[]
+ find_admin(email: str): Admin
+ remove_admin(admin: Admin): void
+ add_admin(admin: Admin): void
+ get_next_admin_id(): int
+ add_tollOperator(tollOperator:TollOperator): void
+ remove_tollOperator(tollOperator:TollOperator):void
+ find_tollOperator(email:str):TollOperator
+ get_all_tollOperator(): TollOperator[]
+ add_tollBooth(tollBooth:TollBooth): void
+ remove_tollBooth(tollBooth:TollBooth):void
+ find_tollBooth(boothid:int):TollBooth
+ get_all_tollBooth(): TollBooth[]
+ find_booth_by_highway(highway: str): TollBooth[]

1

+ data_manager

View

LoginView

+ root: tk

+ create_widgets():void
+ clear(): void
+ login(): void
+ close():void

TollOperatorView

+ root: tk
+ user: TollOperator
+ vehicle: Vehicle

+ create_widgets():void
+ add_tollOperator():void
+ submit_tollOperator(): void
+ list_tollOperator(): void
+ remove_one():void
+ remove_many():void
+ find_tollOperator():void
+ refresh_table():void
+ add_vehicle():void
+ list_vehicle():void
+ clear():void
+ donothing():void
+ close():void

AdminView

+ root: tk
+ user: Admin
+ vehicle: Vehicle
+ tollOperator: TollOperator
+ tollBooth: TollBooth

+ create_widgets():void
+ add_admin():void
+ submit_admin(): void
+ clear(): void
+ list_admin(): void
+ remove_one():void
+ remove_many():void
+ find_admin():void
+ add_tollOperator():void
+ list_tollOperator():void
+ add_vehicle():void
+ list_vehicle():void
+ add_tollBooth():void
+ list_tollBooth():void
+ refresh_table():void
+ donothing():void
+ close():void

TollBoothView

+ root: tk

+ add_tollBooth():void
+ submit_tollBooth(): void
+ list_tollBooth(): void
+ remove_one():void
+ remove_many():void
+ find_booth_by_highway():void
+ refresh_table():void

VehicleView

+ root: tk

+ add_vehicle():void
+ submit_vehicle(): void
+ list_vehicle(): void
+ remove_one():void
+ remove_many():void
+ find_vehicle_by_model():void
+ refresh_table():void