Class Diagram

Types

Contact
- -address: string
- -phone: int
- -email: string

Card
- -card_id: string
- -date: string
- -full_name: string
- -ccv: int

Car Info
- -model: string
- -manufacturer: string
- -type: string
- -horse_power: int
- -CCs: int

Parking Info
- -invoice_support: boolean
- -website: string
- -contact_info: Contact

Charger Info
- -power: int
- -type: string
- -status: string

Charging Data
- -battery_start: double
- -battery_end: double
- -start_time: string
- -end_time: string
- -total_KWatts: string
- -cost_per_KWh: string

User
- -id: string
- -payment_info: Card
- -contact_info: Contact
- -number_of_cars: int
- +get_contact_info(): Contact
- +get_payment_info(): Card
- +set_contact_info(c: Contact): void
- +set_payment_info(p: Card): void
- +get_num_cars(): int
- +set_num_cars(n: int): void
- +check_id(): boolean

Car
- -id: string
- -car_info: Car Info
- +create(c: Car Info): void
- +get(id: string): Car
- +delete(id: string): void
- +update(id: string, c: Car Info): void

Charge
- -id: string
- -cost: double
- -charging_data: Charging Data
- -date: string
- +create(cost: double, cd: Charging Data, date: string): void
- +get(id: string): Charge
- +delete(id: string): void
- +update(id: string, cost: double, cd: Charging Data, date: string): void

Parking Station
- -id: string
- -info: Parking Info
- -name: string
- -num_of_stations: int
- +create(info: Parking Info, name: string, n: int): void
- +get(id: string): Parking Station
- +delete(id: string): void
- +update(id: string, info: Parking Info, name: string, n: int): void

Charging Station
- -id: string
- -info: Charger Info
- +create(info: Charger Info): void
- +get(id: string): Charger Station
- +delete(id: string): void
- +update(id: string, info: Charger Info): void