Models

<u>**Shamsa**</u>

- User
    a. id
    b. Email
    c. Phone number
    d. Age
    e. Password
    f. Rides, default = 0
    g. Rating
    h. Comment or feedback
    i. **CRUD**

- Company
    a. id
    b. CompanyName
    c. Quantity
    d. transportType
    e. **CRUD**

- Rent
    a. Id
    b. TransportType id
    c. userId
    d. dropoffLocation
    e. PickUpLocation
    f. transportType, String
    g. rentStatus, rented - not rented- not available. default= not rented
    h. returnStatus, not returned- returned> when rent change to not returned > when returned change to returned
    i. startDate,LocalDateTime
    j. endDate,LocalDateTime
    k. rentDuration
    l. **CRUD (AddRent - Nahj)**

Lamia

- Car
    a. id
    b. carType
    c. carName
    d. carModel
    e. fuelPercentage
    f. location
    g. numSeats
    h. pinNumber, only 4 digits
    i. CRUD

- Bicycle
    a. Id
    b. Model
    c. Features
    d. pinNumber, only 4 digits
    e. numOfWheels
    f. Location
    g. CRUD

- Scooter
    a. Id
    b. Model
    c. Features
    d. maxSpeed
    e. pinNumber, only 4 digits
    f. chargePercentage
    g. Location
    h. CRUD

Nahj

- Station
    i. Id
    j. Dropoff, String
    k. Pickup, String
    l. haveChargingStation, default=false
    m. Capacity, integer
    n. Status, Indicates whether the station is operational, under maintenance, or temporarily closed.
    o. CRUD

- Rental History
    a. rental ID: A unique identifier for each rental transaction.
    b. User ID: The identifier of the user who initiated the rental.
    c. Vehicle ID: The identifier of the rented vehicle (bicycle or scooter).
    d. Station,String (pickup): The ID of the station where the rental started.
    e. Station,String (drop off): The ID of the station where the rental ended (if returned).
    f. Start Time: The date and time when the rental was initiated.
    g. End Time: The date and time when the rental ended (if returned).
    h. Duration:
    i. Status: The status of the rental (e.g., ongoing, completed).
    j. Battery Level (drop off): For electric vehicles, the remaining battery level at the end of the rental.
    k. Feedback/Rating: Optional feedback or rating provided by the user after the rental.
    l. CRUD

Endpoints

Shamsa

1. User
   - Add comment and rating, userid- body:comment,rating
   - Get review by id, history or rent
   - Get total rides

2. Company
   - Add Transportation Type
   - Get transportation types(cars, bike, scooter)
3. Rental History
   - Get all by user id
   - Get by type:cars,bike,scooter > user
   - Get one history:rent id

Lamia

4. Bike
   - Set Lock, companyId, BikeId, /{PIN}
   - View all bike available, status not rented
   - View by type:2 Or 4
   - View by model
5. Scooter
   - Set Lock, companyId, ScooterId, /{PIN}
   - View by model
   - Return:chang statue, add Quantity
   - View all scooter available, status not rented
   - Average rating
6. Station
   - View open stations
   - View status of station
   - View stations that have charging

Nahj

7. Car
   - Set Lock, companyId, CarId, /{PIN}
   - Rent:change status> rented,minus Quantity
   - Return:chang status>returned, add Quantity
   - View all cars available, status not rented
   - View by type:sedan or luxury, sport
   - Get specific details :carName

8. Rent
   - Return rent
   - Rent
   - Get available
   - **Private methods: createRent,pricePerDuration**