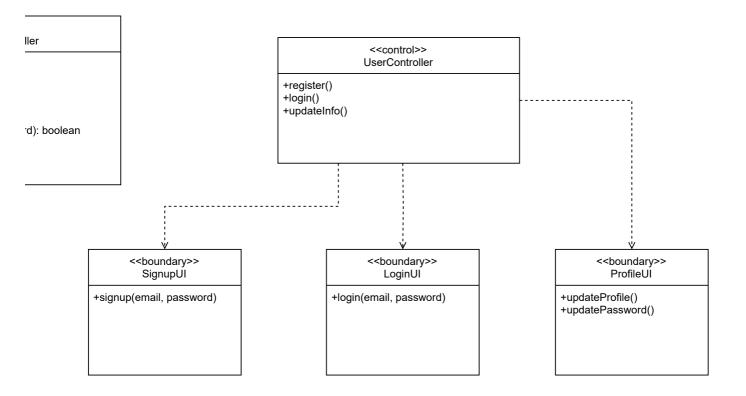
## <<control>> AuthenticateControl

- authenticationServiceuserRepositoryvalidationService

+ validateLogin(username, passwor

<<controller>> CarparkController

-carpark: HDB carpark



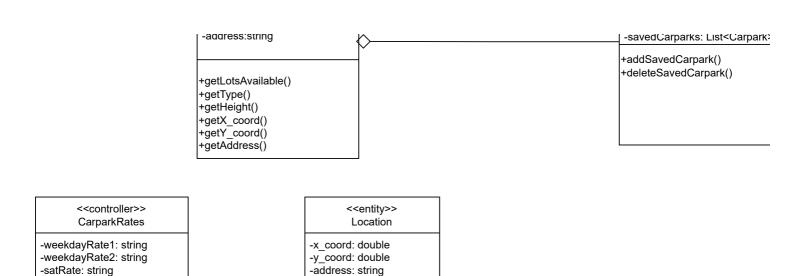
<entity>> Carpark able: int

-lotsAvailable: int -type: string -height: float -x\_coord: double -y\_coord: double <<entity>> User

-username: string
-phoneNumber: string
-email: string
-password: string



+CarparkController(HDB carpark)
+getCarparkInfo(): String
+updateAvailableLots(lots:int)
+updateCarparkType(type: String)
+updateCarparkHeight(height: double)
+updateCoord(x:double, y:double)
+updateAddress(address:string)
+getAvaialableLots()



+getX\_coord() +getY\_coord()

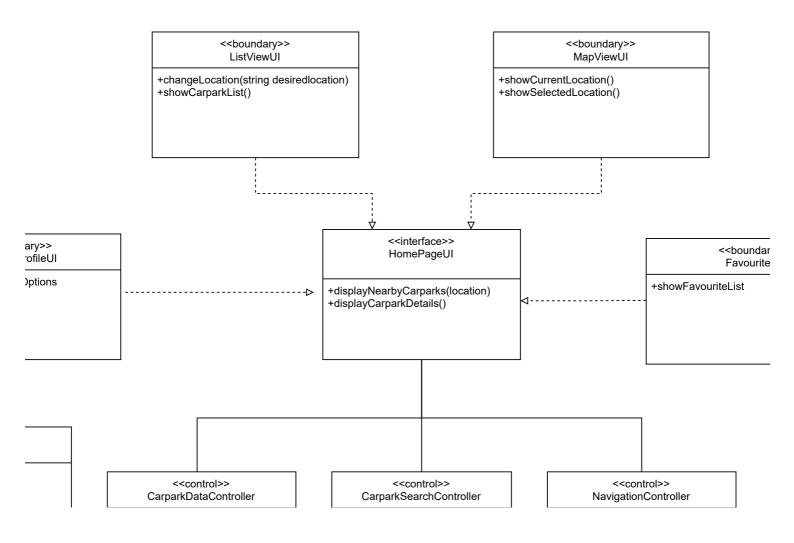
+getAddress()

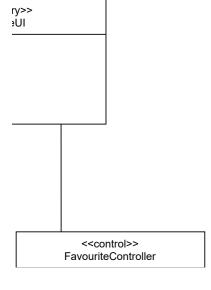
-sunPHRate: string

+getWeekdayRate1() +getWeekdayRate2()

+getSatRate()

+getSunPHRate()

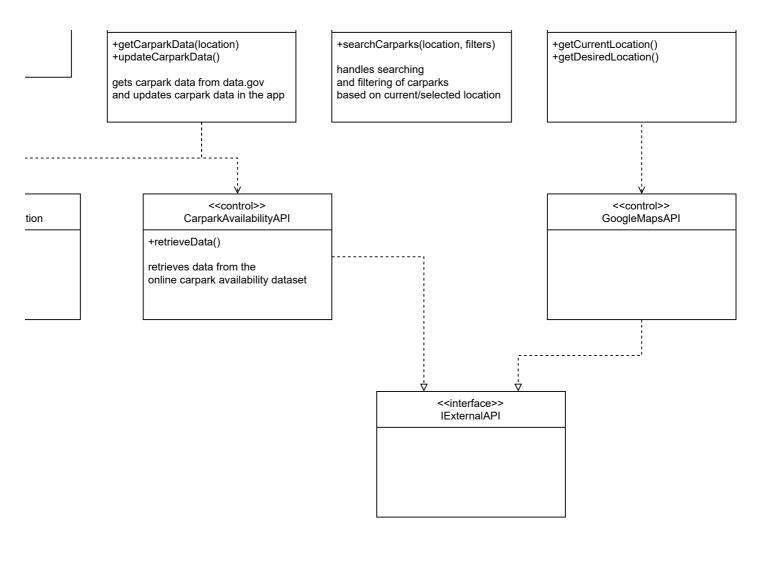


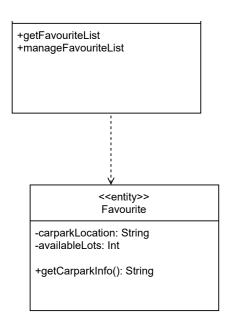


<entity>>
HDBCarparkInformal

-carparkLocation: String -availableLots: Int

+getCarparkInfo(): String





## <<control>> HomeUI

+getDistanceBetweenLocations (location 1: Location, location 2: Location) +findNearbyCarparks(userlocation: Location) +getClosestCarpark(userlocation: Location)