DATA533 Collaborative Software Development

Lab Assignment - 2

Team Members:

- Navdeep Singh Saini [84280635]
- Mehul Bhargava [35211721]

Package topic selection:

A package that helps to find various properties of two types of real-estate properties (Apartments and Family Homes) and display all the relevant information.

Package: RealEstate

Sub-package 1: Apartment: Displays various properties for apartments.

- **Features**

    - class 1 (parent): features
        - apartment_price
        - apartment_area
        - apartment_display

    - class 2 (child): apartment_type
        - floors
        - (all other methods of parent class features)

- **Location**

    - class: location(child)
        - city
        - locality
        - facing_direction
        - (all methods imported from the parent class, which is in the features module)

- **Condition**

    - class: apartment_condition(child)
        - maintenance_required
        - discount
        - furnishing_status
        - (all methods imported from the parent class, which is in the features module)

Sub-package 2: FamilyHome: predicts various properties for family homes..

- **Attributes**

    - class 1 (parent): characteristics
        - house_price
        - house_area

- house_display
  - class 2 (child): quality
    - build_quality
    - (all other methods of parent class features)

- **AreaType**

  - class: areaType (Child)
    - nearby_amenities
    - view
    - population
    - (all methods imported from the parent class, which is in the features module)

- **highlights**

  - class: highlights(child)
    - garage_capacity
    - swimming_pool_type
    - furnish_type
    - (all methods imported from the parent class, which is in the features module)