

## CRC Cards:

<b>Class Name:</b> User	
<b>Subclass Name:</b> Admin, Buyer, Seller	
<b>Superclasses:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Contain personal information	Client
Set admin previllages	Customers

<b>Class Name:</b> Admin	
<b>Subclass Name:</b> First_Degree_Admin, Second_Degree_Admin	
<b>Superclasses:</b> User	
<b>Responsibilities</b>	<b>Collaborators</b>
Sets admin rights & previllages	Client
Contains the information of all users	
Manage Listings	
Maintain systems	
Monitor user activity	
Varify real users	

<b>Class Name:</b> Buyer	
<b>Subclass Name:</b>	
<b>Superclasses:</b> User	
<b>Responsibilities</b>	<b>Collaborators</b>
Browse listings	Customer
Search other properties	
Save favorite listings	
Communicate with sellers	

<b>Class Name:</b> Seller	
<b>Subclass Name:</b> New_Seller, Top_Seller	
<b>Superclasses:</b> User	
<b>Responsibilities</b>	<b>Collaborators</b>
Post for properties	Customer
Search other listings	
Validate the account for selling	
Can communicate with buyer and admin	
Manage existing listings	
Can issue advertisements	

<b>Class Name:</b> Apartment	
<b>Subclass Name:</b>	
<b>Superclasses:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Contain apartment location	
Contain apartment information	
Contain the price	
Contains the included facilities	
Contain apartment picture	

## Class Compartments:

User
<ul style="list-style-type: none"><li>- userId: int</li><li>- username: String</li><li>- email: String</li><li>- password: String</li></ul>
<ul style="list-style-type: none"><li>+ User(username: String, email: String, password: String)</li><li>+ getUserId(): int</li><li>+ setUserId(userId: int): void</li><li>+ getUsername(): String</li><li>+ setUsername(username: String): void</li><li>+ getEmail(): String</li><li>+ setEmail(email: String): void</li><li>+ getPassword(): String</li><li>+ setPassword(password: String): void</li></ul>

<<user>> Buyer
- favoriteApartments: List<Apartment>
+ getFavoriteApartments(): List<Apartment> + addFavoriteApartment(apartment: Apartment): void + removeFavoriteApartment(apartment: Apartment): void

<<user>> Seller
- listedApartments: List<Apartment>
+ getListedApartments(): List<Apartment> + addListedApartment(apartment: Apartment): void + removeListedApartment(apartment: Apartment): void

<<user>> Admin
- adminRights: String
+ getAdminRights(): String + setAdminRights(adminRights: String): void + performAdminAction(): void

Apartment
- address: String - size: float - price: float - amenities: List<String>
+ Apartment(address: String, size: float, price: float) + getAddress(): String + setAddress(address: String): void + getSize(): float + setSize(size: float): void + getPrice(): float + setPrice(price: float): void + getAmenities(): List<String> + setAmenities(amenities: List<String>): void

## Class Diagram:

