CRC Diagram of a House Rental System

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Class and CRC Diagrams:

Home Rental System:

Our system will let users search for places to rent and allow premium partners to sell/ advertise their property for rent.

Our system will have to types of primary users.

1. Tenant
2. House Owners

Identifying Analysis Classes

Analysis classes can be identified by parsing noun and noun phrases. Then they

need to be classified by general classification and selection criteria.

General classification:

1. External entities

2. Things

3. Occurrence or events

4. Roles

5. Organizational units

6. Places

7. Structures

Selection criteria:

1. Retained information

2. Needed services

3. Multiple attributes

4. Common attributes

5. Common operations

6. Essential requirements

Potential Classes	General Classification	Selection Criteria	Accepted/Rejected
User	Roles	2,3,4,5,6	Accepted
Email			
Passwords			
Customers	External Entities	1,3,4,6	Accepted
Advertisements	Structures	1,2,3,6	Accepted
Property	Places	1,2	Accepted

Accepted Classes:

1. User
2. Customers
3. Advertisements
4. Property

Attribute Identifications:

Class Name	Attributes
User	Email Password
Customers	Types of Customers Contact Information Email
Advertisements	Description Facilities Price
Property	Availability Cost Location Legal Status

Method Identification:

Verb identification:

Verb	Remark
Sign up	Yes
Authentication	Yes
Log in	Yes
Advertise	Yes
Buy	Yes
Sell	Yes
Take	Out of Scope
Randomize	Out of Scope
Modify	Yes
Mention	Out of Scope

Methods:

Class name	Methods
User	setEmail() setPassword() signUp() verify() login() advertise()
Customers	setEmail() getEmail() setNumber() getNumber() searchAd() setAd()
Advertisements	setContact() setDetails() getReview() getRatings()
Property	setPrice() getPrice() setInfo() getInfo()

Class Cards:

Users	
Email	setEmail()
	setPassword()
Password	signUp()
	verify()
Authentication	login()
	advertise()

Customers	
Search Advertisement	setEmail()
	getEmail()
Post Advertisement	setNumber()
	getNumber()
Set Contact	searchAd()
	setAd()
Email	

Advertisement	
Description	setContact()
	setDetails()
Contact Info	getReview()
	getRatings()
Features	

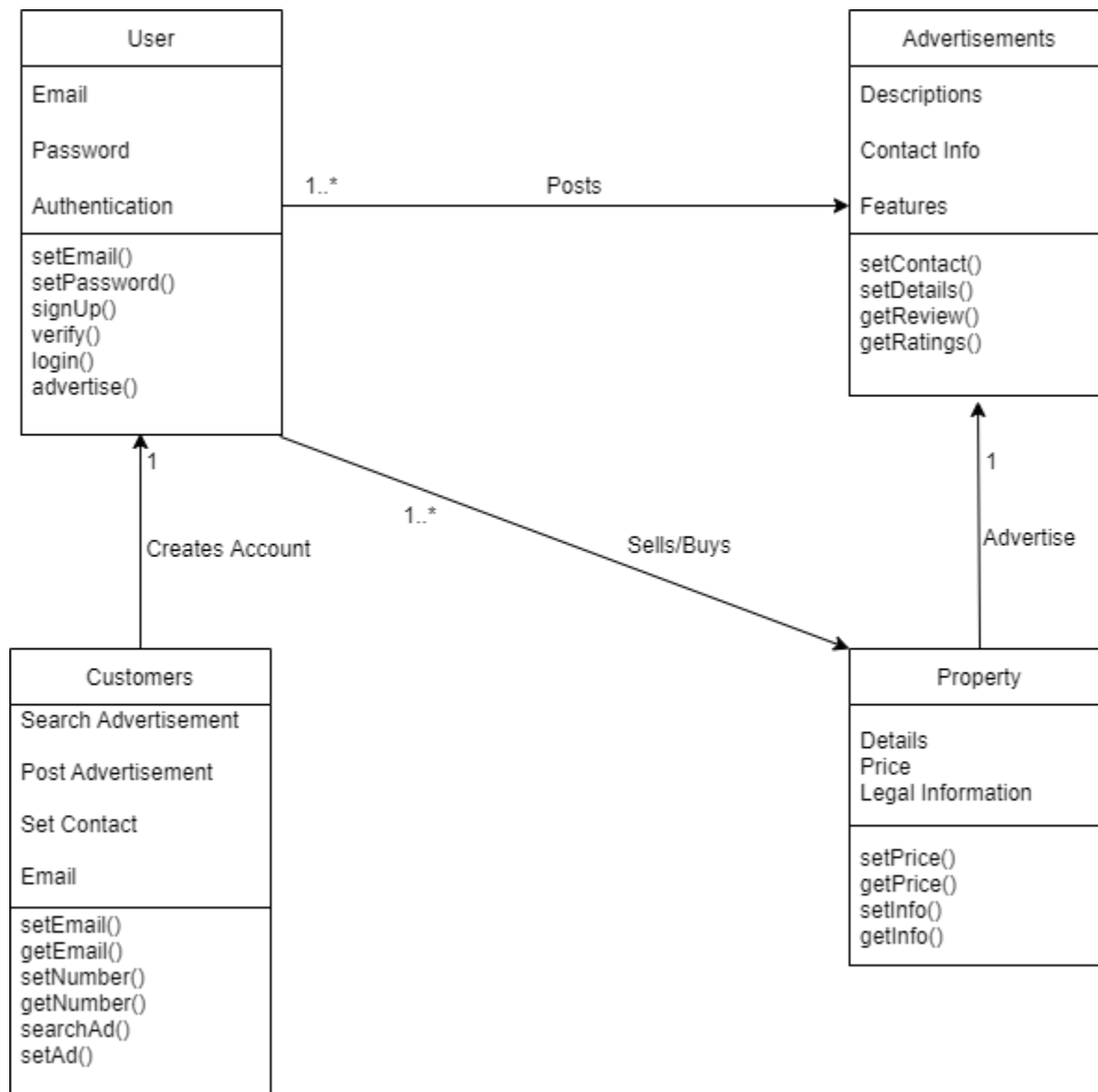| Property	
Details	setPrice()
Price	getPrice()
Legal Information	setInfo()
	getInfo()

Class Responsibility Collaboration (CRC) Diagram:

Figure: CRC Diagram of a House Rental System