Project A – Practice

Record

id : int
+ Record(int id)
+ boolean matches(int id)
+ void show()
+ String toString()

Agent

- name: String
+ Agent(int id, String name)
+ String toString()

<> Property

agent: Agent
owner: String
price : double   // rental or sales price
status : Status
propertyType: PropertyType;
+ Property(int id, Agent agent, String owner, double price, PropertyType type)
+ double income()
# abstract double getIncome();
+ boolean isRentalProperty();
+ boolean isSalesProperty()
+ boolean isVacant()
+String toString()

<<enum>> Status

VACANT, RENTED, SOLD

<<enum>> PropertyType

SALES, RENTAL

RentalProperty

- tenant : String
+ RentalProperty(int id, Agent agent, String owner, double price, String tenant, Status status)
+ RentalProperty(int id, Agent agent, String owner, double price)
+ void rent(String tenant, Agent agent)
+ double getIncome(); // override
+ String toString()

SaleProperty

- buyer: String
- actualSalePrice : double
+ SaleProperty(int id, Agent agent, String owner, double price, String buyer, Status status)
+ SaleProperty(int id, Agent agent, String owner, double price)
+ void sell (String buyer, Agent agent, double actualSalePrice)
+ double getActualSalePrice()
+ double getIncome();// override
+ String toString()

Records

id : int = 0;
LinkedList<Record> records = new LinkedList<Record>();
Record find(int id)
void add(Record record)
+ int size()
+ void show()
+ String toString()

Agency

- NAME: String = "Rainbow Real Estate";
- agents: Agents
- properties: Properties
- char YES = 'Y'
+ Agency()   //starting point of the app
- void menu()
- chat readAction();
- void addProperty(PropertyType type)
- void addAgent ()
- void rent()
- void sell()
- void report()
- void show();
- void exit();
- boolean confirm();   - void help();
- void error();   - Agent findAgentById();
+String toString()

Agents

+ Agent find(int id)
+ void add()
+ String toString()

Properties

+ Property find(int id)
+ void addProperty(Agent agent, String owner, double price, PropertyType type)
+ double calcIncome();
+ String toString()