UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE

CLASS NAME: OBJECT ORIENTED PROGRAMMING
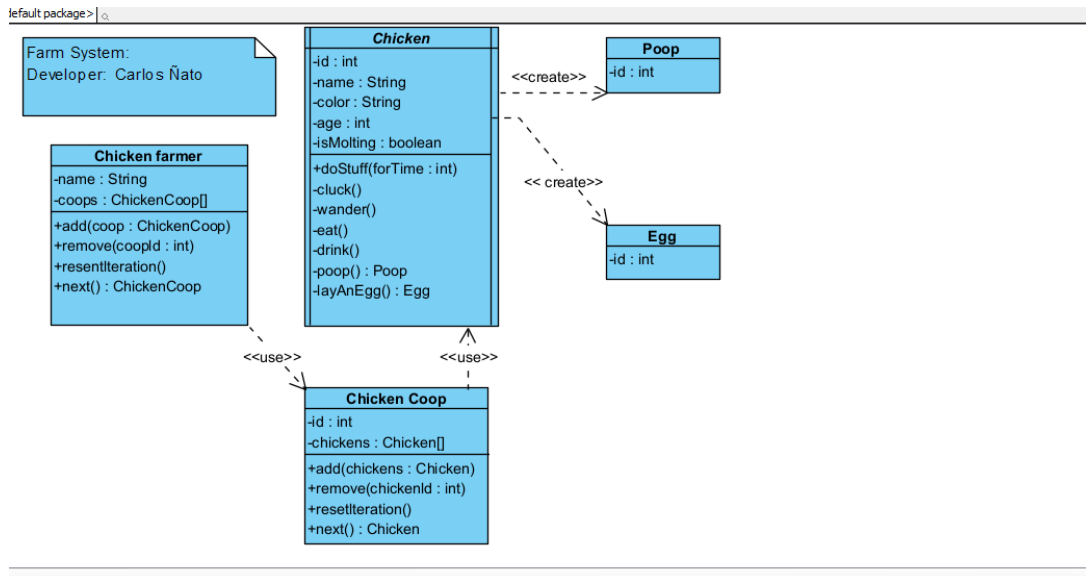
TEACHER: EDISON LASCANO

NRC:14575

HORKSHOP #: 3

TOPIC: DIAGRAM OF CLASS

NAME: CARLOS ÑATO

```
Farm System:
Developer: Carlos Ñato
```

Chicken
```
-id : int
-name : String
-color : String
-age : int
-isMolting : boolean
+doStuff(forTime : int)
-cluck()
-wander()
-eat()
-drink()
-poop() : Poop
-layAnEgg() : Egg
```

Poop
```
-id : int
```

Egg
```
-id : int
```

<<create>>

<< create>>

Chicken farmer
```
-name : String
-coops : ChickenCoop[]
+add(coop : ChickenCoop)
+remove(coopId : int)
+resentIteration()
+next() : ChickenCoop
```

<<use>>

<<use>>

Chicken Coop
```
-id : int
-chickens : Chicken[]
+add(chickens : Chicken)
+remove(chickenId : int)
+resetIteration()
+next() : Chicken
```

```java
public class Chicken{
    private int id;
    private String name;
    private String color;
    private int age;
    private boolean inMolting;

    private void doStuff(int forTime);
    private void cluck();
    private void wander();
    private void eat();
    private void drink();
    private Poop poop();
    private Egg layAnEgg();
}

public class ChickenFarmer{
    private String name;
    private ChickenCoop[] coops;

    public void add(ChickenCoop coop);
    public void remove(int coopId);
    public void restIteration();
    public ChickenCoop next();
}
Nobre:Carlos Isaac Ñato Caiza
```

```java
public class ChickenCoop{
    private int id;
    private Chicken[] Chickens;

    public void add(Chicken Chicken);
    public void remove(int Chicken);
    public void restIteration();
    public Chicken next();
}


public class Poop{
    private int id;
}


public class Egg{
    private int id;
}
Nobre:Carlos Isaac Ñato Caiza
```