

World of Robots

Master 1 Génie Physiologique et Informatique

Lab 4.1 : Required classes

```
document.getElementById(div).innerHTML += "Error";
else if (i==2)
{
    var atpos=inputs[1].indexOf("@");
    var dotpos=inputs[1].lastIndexOf(".");
    if (atpos<1 || dotpos<atpos+1 || dotpos==inputs[1].length-1)
        document.getElementById("errmail").innerHTML += "Error";
    else
        document.getElementById(div).innerHTML += "OK";
}
else if (i==5)
{
    var atpos=inputs[1].indexOf("@");
    var dotpos=inputs[1].lastIndexOf(".");
    if (atpos<1 || dotpos<atpos+1 || dotpos==inputs[1].length-1)
        document.getElementById("errmail").innerHTML += "Error";
    else
        document.getElementById(div).innerHTML += "OK";
}
```

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Class name : Robot

- short description: represents the robot who will help the patient for its medication
- **class attributes:**
 - attribute name: **name**
 - type: string
 - short description: name of robot
 - attribute name: **patient**
 - type: Patient
 - short description: name of the patient who is assigned to the robot
- **Class method:**
 - method name: **setName**
 - category: setter
 - signature: public void setName(String newName)
 - short description: change the name of the robot
 - method name: **getName**
 - category: getter
 - signature: public String getName()
 - short description: give the name of the the robot
 - method name: **getPatient**
 - category: getter
 - signature: public String getPatient()
 - short description: give the name of the patient
 - method name: **isContraindicated**
 - category: getter
 - signature: public Boolean isContraindicated()
 - short description: verify whether a drug is not contraindicated for its patient
 - method name: **verifDrug**
 - category: setter
 - signature: public void verifDrug()
 - short description: method that allows the robot to manage the stock of drug and if the patient needs to go to the pharmacy
 - method name: **setPrescription**
 - Category : setter
 - Signature : public String setPrescription()
 - Short description : change the prescription for the patient

Class name : Patient

- short description: represents a patient
- **class attributes:**
 - attribute name: **name**
 - type: string
 - short description: name of patient
 - attribute name: **prescription**
 - type: prescription (class)
 - short description: prescription given to the patient

- attribute name: **contraindication**
 - type: enum type
 - short description: contraindication of the patient (asthmatic patients and pregnant women)
- attribute name: **stock**
 - type: integer
 - short description: quantity of drugs available to patients
- attribute name: **pharmacy**
 - type: boolean
 - short description: Refill or no medication

Class methods :

- Method name : **getName**
 - Category : getter
 - Signature : public String getName()
 - Short description : Returns the name of the patient
- Method name : **setName**
 - Category : setter
 - Signature : public void setName(String newName)
 - Short description : Changes the name of the patient
- Method name : **getStock**
 - Category : getter
 - Signature : public String getStock()
 - Short description : Returns the available stock of the patient
- Method name : **setStock**
 - Category : setter
 - Signature : public void setStock(int newStock)
 - Short description : Changes the stock of the patient
- Method name : **setContraindication**
 - Category : setter
 - Signature : public void setContraindication (contraindication Contraindication)
 - Short description : change the contraindication for the patient
- Method name : **getContraindication**
 - Category : getter
 - Signature : public contraindication setContraindication()
 - Short description : give contraindication for the patient
- Method name : **getPrescription**
 - Category : getter
 - Signature : public String getPrescription()
 - Short description : Returns the prescription

Class name : Drug

Short description : Details about a drug

Class attributes :

- Attribute name : **name**
 - Type : String
 - Short description: The name of a drug

- Attribute name: **contraindication**
 - type: enum type
 - short description: contraindication of the drug

Class methods :

- Method name : **getName**
 - Category : getter
 - Signature : public String getName
 - Short description : give the name of the drug
- Method name : **setName**
 - Category : setter
 - Signature : public void setName (String newName)
 - Short description : change the name of the drug
- Method name : **getContraindication**
 - Category : getter
 - Signature : public contraindication getContraindication ()
 - Short description : give contraindication of the drug
- Method name : **setContraindication**
 - Category : setter
 - Signature : public void setContraindication (contraindication Contraindication)
 - Short description : change the contraindication of the drug

Class name : Prescription

Short description : Details the prescription of the patient

Class attributes :

- Attribute name : **dailyDose**
 - Type : Int
 - Short description: the daily dose of the drugs
- Attribute name : **drugName**
 - Type : Drug
 - Short description: the medication that the patient has to take

Class method:

- Method name : **getDailyDose**
 - Category : getter
 - Signature : public int getDailyDose ()
 - Short description : get the daily dose of drugs

Class diagram :

