# El Presidente

## **Technical documentation**

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## **I/ Introduction**

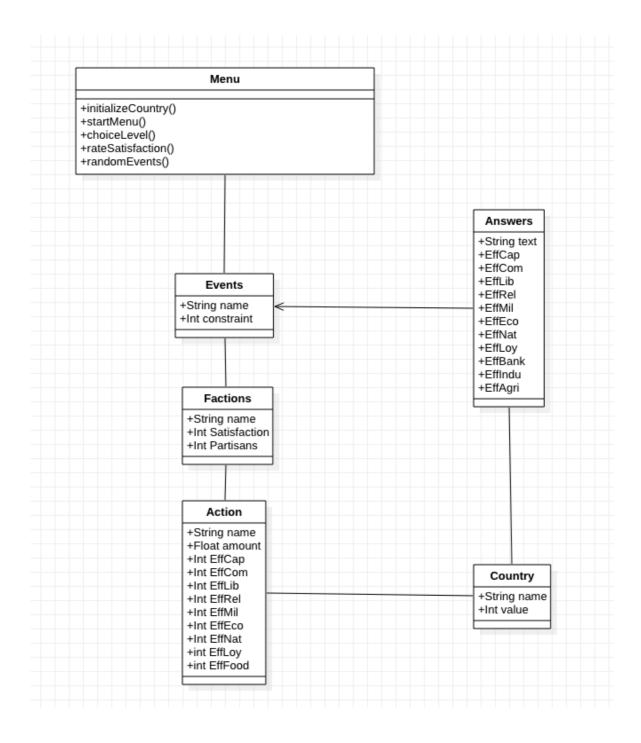
The game El Presidente consists of managing an island where 8 competing factions are present. Each faction is defined by a name (eg: capitalists, communists, ...) and has a number of supporters for each. Various events will happen through the game.

Depending on the event, the player may have the possibility to chose an action (between 1 to 3) and react to the event.

Depending on the event and/or the choices, the number of supporters and their satisfaction will be modified. The President's territory will be divided into two parts: Agriculture and Industry. Agriculture will be used to provide food for the government while industry will provide money. The object of this game will be to have enough money to face the various events while having enough food to provide needs for the people.

In fact, the overall satisfaction of the entire population must remain above a certain value, depending on the difficulty chosen by the player.

## II/ Presentation of design pattern.



### **III/ Presentation of object.**

Our project El Presidente is compose by 4 objects and 2 enums.

Main: object main is use to call all the functions.

```
package src;
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
            Scanner scanner = new Scanner (System.in);
            int seasons =1, EndGame =0;
            Menu.startMenu();
            String president = Menu.initializePresident();
            String country = Menu.initializeCountry();
            float difficulty = Menu.choiceLevel();
            while(Menu.loosecondition(difficulty) && EndGame <20) {</pre>
                if(Menu.randomEvents(seasons)){
                    Menu.viewUpdate(president, country);
                    seasons = Menu.seαson(seasons, president, country);
                    Menu.repartition();
                    Menu.checkValueSat();
                    Menu.getdown();
                    EndGame++;
                }
```

Menu: this object menu manage all the rules of the game. Contains all procedures of the program like:

- menuStart(): which initialize the start menu of the game. In this step, we have the choice between check the rules of the game or go directly inside it.
- choiceLevel(): which give us the possibility to choose the difficulty of our game. (Easy / Medium or Hard)
- randomEvents(): this procedure generate randomly an event and propose the answers which are linked with.

#### Example of case 5 in randomEvent()

```
com ***:
    if(for, pathoses) = 0 && (for, pathoses/suit() != seaso) {
        System.or.print(for_point | to inducts out or printed() * | for_point() *
```

Country: this object instantiate the parameters of the country: the name as well as values like industrialization, agriculture, treasury and also the country's food stock.

Getters et setters were also instantiate in order to manage data in the program.

#### Attributes:

- String name;
- Int value;

```
package src;
public class Country {
    private String name;
    private int value;
    public static Country Agri = new Country( name: "Agriculture" , value: 15);
public static Country Tresor = new Country ( name: "Trésorerie", value: 2000);
public static Country Food = new Country ( name: "Nourriture" , value: 600);
    public Country(String name, int value){
         this.name = name;
    public String getName() { return name; }
    public void setName(String name) { this.name = name; }
    public int getValue() { return value; }
    public int setValue(int value) {
    public static Country getIndu() { return Indu; }
    public static void setIndu(Country indu) { Indu = indu; }
    public static void setAgri(Country agri) { Agri = agri; }
    public static void setTresor(Country tresor) { Tresor = tresor; }
    public static Country getFood() { return Food; }
    public static void setFood(Country food) { Food = food; }
```

Factions: this object instantiate all the factions existing in El Presidente. It specifies also values such as the satisfaction rate and the number of supporters for each "teams" when we start the game.

#### Attributes:

- String name;
- Int satisfaction;
- Int partisans;
- Int down;

```
private String name;
public static Factions capitaliste = new Factions( name: "Capitaliste", satisfaction: 50, partisans: 15, down: 0);
public static Factions communiste = new Factions( name: "Communiste", satisfaction: 50, partisans: 15, down: 0);
public static Factions liberaux = new Factions( name: "Libéraux", satisfaction: 50, partisans: 15, down: 0);
public static Factions religieux = new Factions( name: "Religieux", satisfaction: 50, partisans: 15, down: 0);
public static Factions militariste = new Factions( name: "Militariste", satisfaction: 50, partisans: 15, down: 0);
public static Factions ecologiste = new Factions( name: "Ecologiste", satisfaction: 50, partisans: 15, down: 0);
public Factions(String name, int satisfaction, int partisans, int down) {
      this.name = name;
     this.satisfaction = satisfaction;
     this.partisans = partisans;
     this.down = down;
public String getName() { return name; }
public void setName(String name) { this.name = name; }
public int getSatisfaction() { return satisfaction; }
public void setSatisfaction(int satisfaction) { this.satisfaction = satisfaction; }
public int getPartisans() { return partisans; }
public void setPartisans(int partisans) {
     this.partisans = partisans;
public int getDown(){return down;}
public void setDown(int down) { this.down = down; }
```

Actions: this one manage the actions wich the players can do in the game. He has the possibility to bride a faction and he can also buy some food rations for his people.

#### Some attributes of Actions:

- String name;
- Float amount;
- EffEco:
- EffNat;
- EffLoy;

```
product case Actions {

private String mat;
private Interface;
private
```

Events: Events is an enum, which is the list of the different event that can happen during the game randomly.

We have described the event, their specification and constraint.

#### All the attributes:

- String specs;
- Int constraint;
- Int alused:

```
package src;

public enum Events {

    ONE( Spece: "Des serve-terrestes apparaisant et prannent contact, ils souhaitent s'adresser au chef terrian :", constraint 0, laused 0),

    THO( Spece: "Des hackers ont piraté des secrets géétat et réclament une rançon de 250 millions géaurg :", constraint 0, laused 0),

    THREE( Spece: "Des pandémis touche mondialesent :", constraint 1, laused 0),

    FURCE (Spece: "Une poveraint source d'Ameriq evert illimité est gécouverte :", constraint 0, laused 0),

    FILE (Spece: "Une provide source d'Ameriq evert illimité est gécouverte :", constraint 0, laused 0),

    SEVENT (Spece: "Une provide source d'Ameriq evert illimité est gécouverte :", constraint 0, laused 0),

    SEVENT (Spece: "Une provide des travailleurs du bâtiment dure daouis 2 semaines :", constraint 0, laused 0),

    SEVENT (Spece: "Une provide des travailleurs du bâtiment dure daouis 2 semaines :", constraint 0, laused 0),

    NIME (Spece: "Une provide des provides des purers provangent du pays voisins demandent votre protection :", constraint 0, laused 0),

    FILE (Spece: "Une provide des serves provangent du pays voisins demandent votre protection :", constraint 0, laused 0),

    FILE (Spece: "Une provide des sources demanders de provides de purer provangent de provides de sudventions pour es preferente de la provide de sudventions pour ess preferentes partiales :",

    FILE (Spece: "Une provide et brillant scientifique your démande des sudventions pour ess preferentes partiales :",

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    FIL
```

Answers: Answers is an enum, which is the list of the different scenario possible that can happen during the game in response of the event. We have describe the event, their specification and constraint.

#### Some attributes of Answers:

- EffCap;
- EffLib;
- EffRel;
- EffCom;

```
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```

```
private final String text;
private final int EffCos;
this.EffCos = EffCo
```