

# Tunisian Elections:

Hope and solutions

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## Introduction

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**Elections** has always been a rich subject for conspiracy theories and people who doubt its results even in the most “advanced” democracies.

In order to overcome this issue and using our technological knowledge, we thought about putting in use a system that allows people to consult the history of a given candidate, his score based on a formula and directly vote to someone without having mediators to count or even supervise the operation.

## 1/ Functional needs:

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Functional needs formally put what the system does in relation with the actors who are going to exploit it.

### **Visitor:**

- See the scores of the candidates

**Elector:** (inherited from visitor)

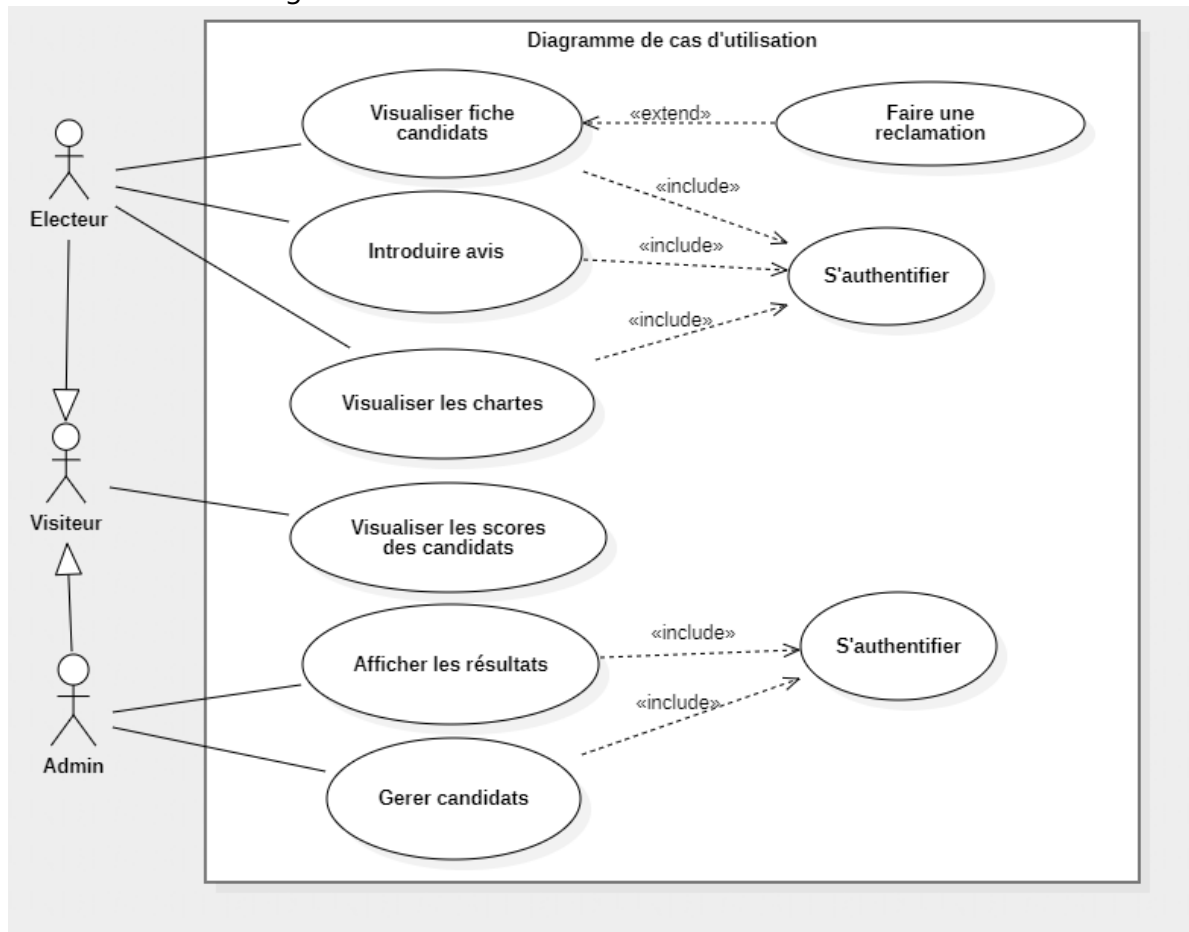
- See the detailed file of the candidates
- See the electoral lists
- See charts about the candidate
- Vote for a candidate
- Report something in a candidate's profile
- Sign in
- Sign up

**Admin:** (inherited from visitor as well)

- Manage the candidates
- Check results
- Sign in

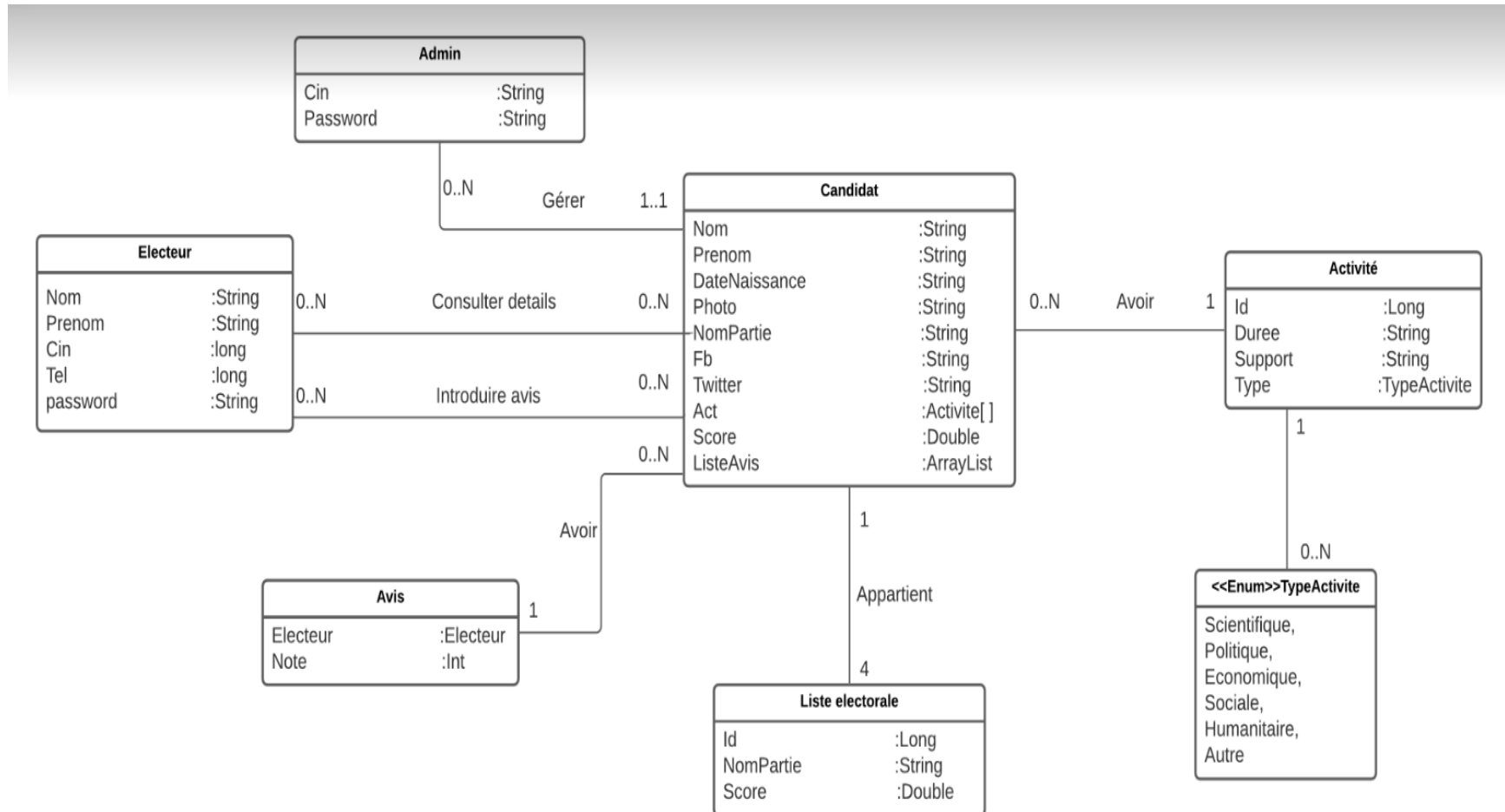
## 2/ Use case Diagram

Here's our use case diagram



### 3/ Class Diagram

Here's our Class Diagram



## 4/ Code screenshots

This screenshot shows the Visual Studio Code editor with the file `ListeDesElecteurs.java` open. The Explorer sidebar on the left shows the project structure, including `DataTest`, `Entities`, `Enumeration`, `TypesActivites.java`, `Implementation`, and `Traitement`. The main editor displays the implementation of the `login` method, which checks if a user exists and if the password is correct. The terminal at the bottom shows the output of the program, which is a menu for the Tunisian Election Manager.

```
8 //kol-users
9 //login
10 //signup
11 HashSet<Electeur> listelects = new HashSet<Electeur>();
12
13 public boolean login(long cin,String password){
14     Electeur E = recherche(cin);
15
16     if (E != null) {
17         if(E.getPassword().equals(password) ) {
18             System.out.println("Succès");
19             return true;
20         }
21         else {
22             System.out.println("mot de passe incorrect");
23             return false;
24         }
25     }
26     else{
27         System.out.println("Cin incorrect ou n'existe pas");
28         return false;
29     }
30 }
31 public boolean signup(Electeur E){
32     return listelects.add(E)?true:false;
33 }
34
35 public Electeur recherche(long cin){
```

TERMINAL

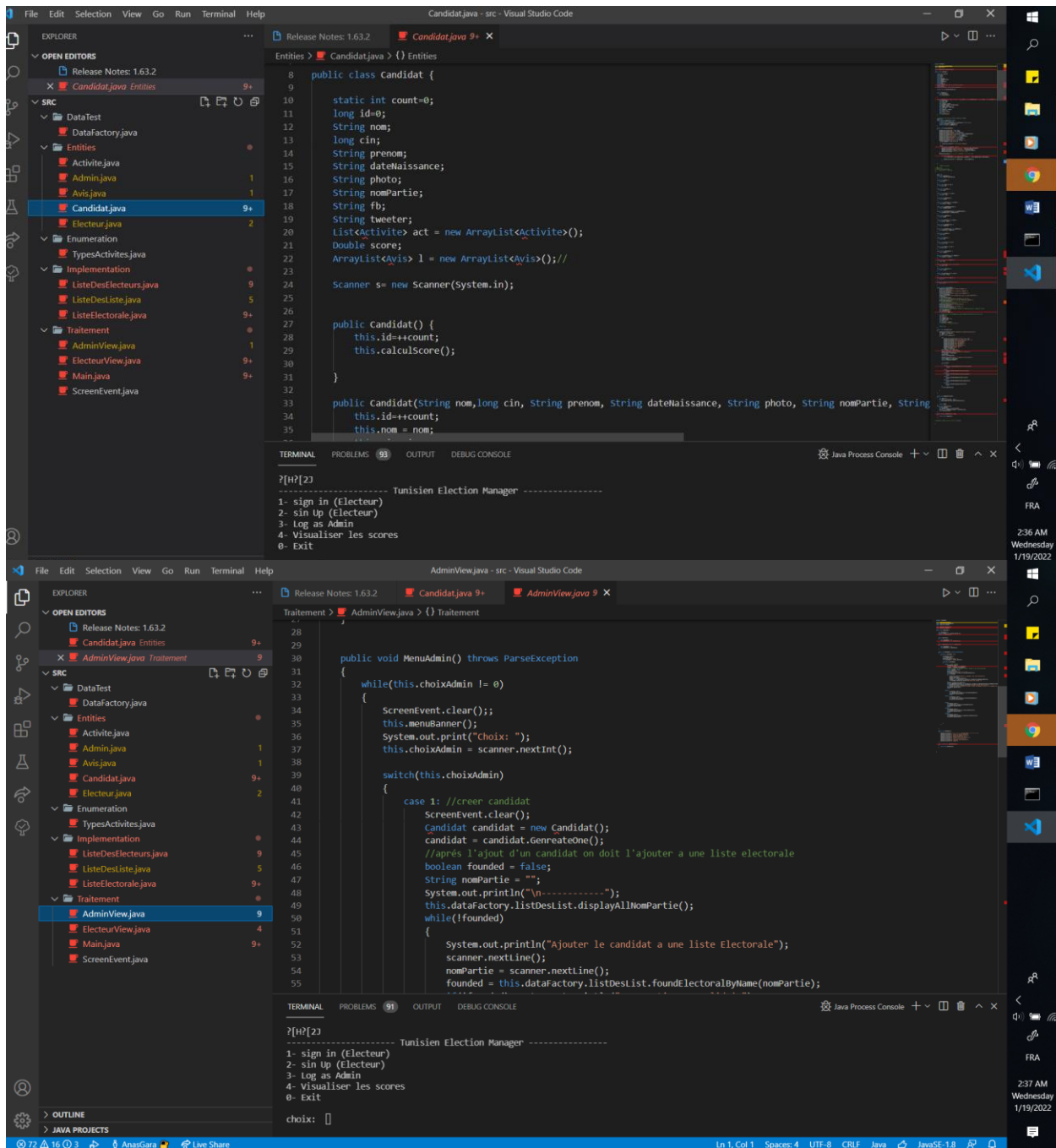
```
?[H]?[2]
----- Tunisien Election Manager -----
1- sign in (Electeur)
2- sin Up (Electeur)
3- Log as Admin
4- Visualiser les scores
0- Exit
choix: []
```

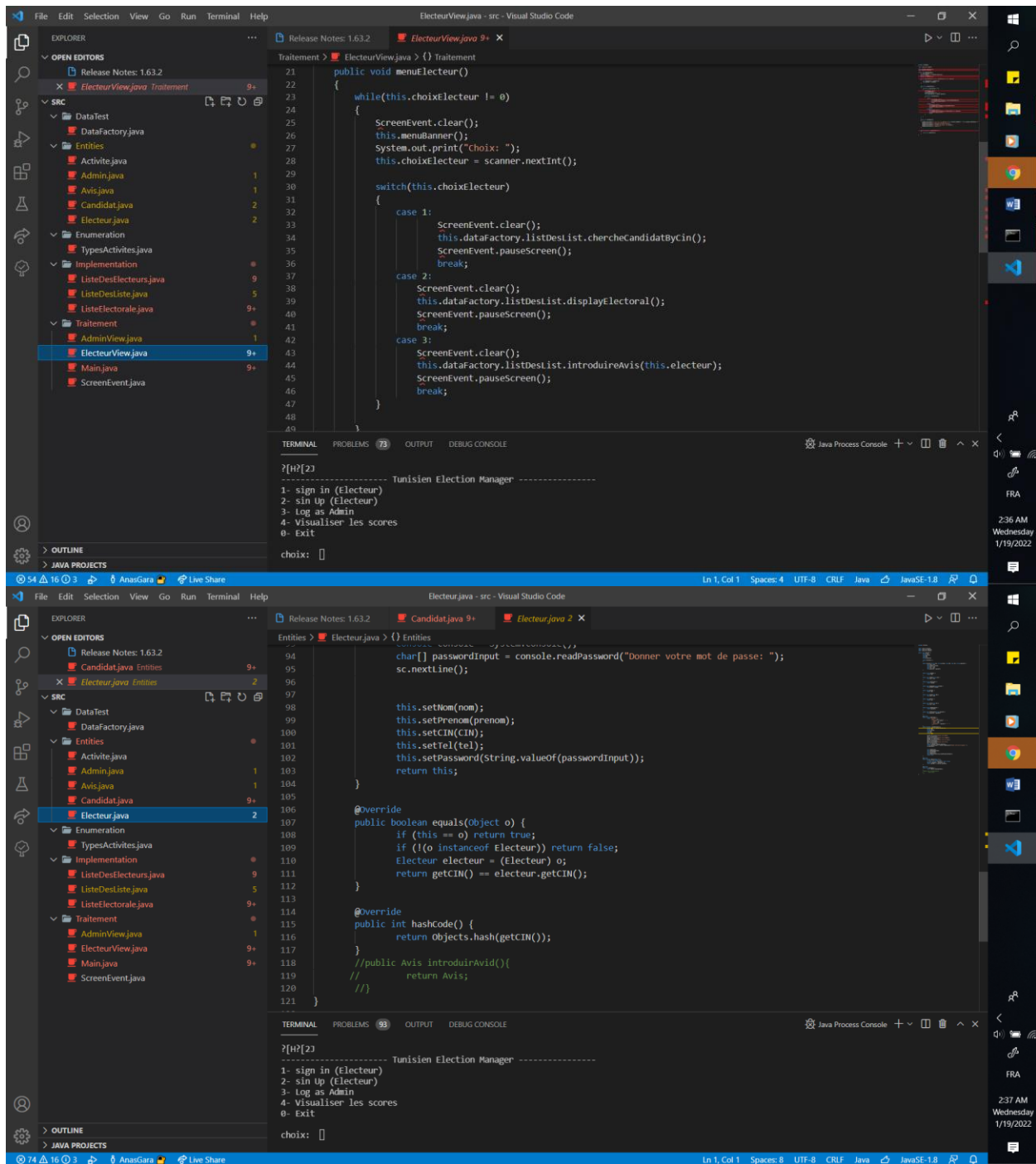
This screenshot shows the Visual Studio Code editor with the file `Main.java` open. The Explorer sidebar on the left shows the project structure, including `DataTest`, `Entities`, `Enumeration`, `TypesActivites.java`, `Implementation`, and `Traitement`. The main editor displays the implementation of the `main` method, which creates a `DataFactory` object, initializes an `AdminView` object, and enters a loop that prompts the user to choose an option from the menu. The terminal at the bottom shows the output of the program, which is a menu for the Tunisian Election Manager.

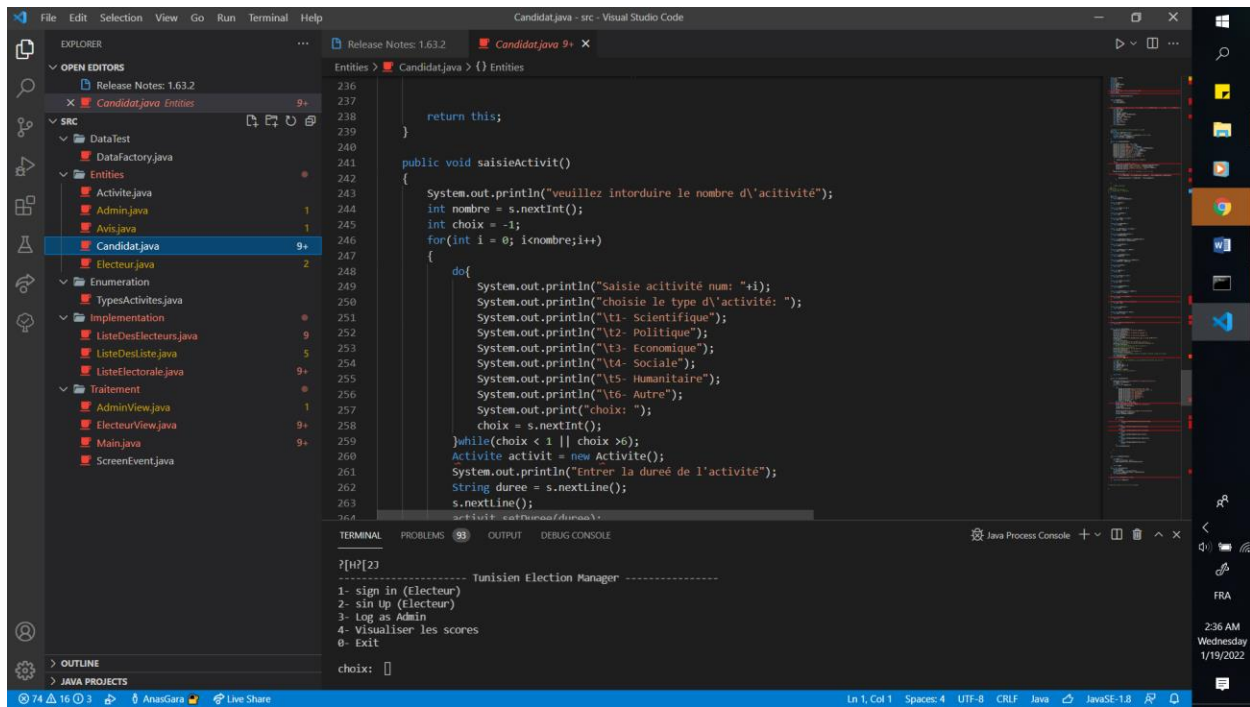
```
10
11 public class Main {
12
13     Run | Debug
14     public static void main(String[] args) throws ParseException {
15         DataFactory data = new DataFactory();
16         AdminView adminView;
17         int choix = -1;
18
19         while(choix != 0)
20         {
21             ScreenEvent.clear();
22             System.out.println("----- Tunisien Election Manager -----");
23             System.out.println("1- sign in (Electeur)");
24             System.out.println("2- sin Up (Electeur)");
25             System.out.println("3- Log as Admin");
26             System.out.println("4- Visualiser les scores");
27             System.out.println("0- Exit\n");
28
29             System.out.print("choix:\t");
30             Scanner scanner = new Scanner(System.in);
31             choix = scanner.nextInt();
32
33             switch(choix)
34             {
35                 case 1:
36                     boolean authGuardElecteur = false;
```

TERMINAL

```
?[H]?[2]
----- Tunisien Election Manager -----
1- sign in (Electeur)
2- sin Up (Electeur)
3- Log as Admin
4- Visualiser les scores
0- Exit
choix: []
```







## 5/ Execution screenshots

```
----- Tunisien Election Manager -----  
1- sign in (Electeur)  
2- sin Up (Electeur)  
3- Log as Admin  
4- Visualiser les scores  
0- Exit  
  
choix: 
```

```
Bonjour, entrer votre CIN  
12345678  
Donner votre mot de passe: 
```

```
----- Welcome Admin -----  
1- Creer un nouveau Candidat  
2- Recherche Candidat by Cin  
3- Delete Candidat By Cin  
4- afficher les liste electoral  
5- creer liste electoral  
6- supprimer liste electoral  
0- Logout  
Choix: 
```



```
id Partie: 1
Nom Partie: el nahdha
Score Partie: 31.0
La liste des candidat:
["2:montasar_ben hamouda(score: 31.0)",]
-----

id Partie: 0
Nom Partie: hezb el 5odhr
Score Partie: 32.6
La liste des candidat:
["1:karim_ben hamouda(score: 16.0)","34:chiheb_ben hamouda(score: 50.0)","10:aymen_ben hamouda(score: 50.0)","11:mourad_ben hamouda(score: 31.0)","12:ahmed_ben hamouda(score: 16.0)",]
-----

Press Enter key to continue...
█
```

----- Creer Nouveau List Electorale -----

saisier le Nom Partie: tajammo3

Operation avec succées

Press Enter key to continue...

█

les listes Electorale disponible:

[el nahdha, tajammo3, hezb el 5odhr, ]

saisie le nom de la liste Electorale: tajammo3

la liste supprimer avec succées

Press Enter key to continue...

█

----- Welcome Aymen jlassi-----

- 1- Recherche Candidat by Cin
- 2- afficher les liste electoral
- 3- introduit une note à un candidat
- 0- Logout

Choix: █

Saisie Cin de Candidat que vous voulez evaluer

34

donner votre Avis entre 0 et 100

65

Press Enter key to continue...

█

saisie Cin candidat a chercher: 34

CIN: 34

NOM: chiheb

PRENOM: ben hamouda

Date de Naissance: 13/1/1997

Photo Link: photo

Nom Partie: hezb el 5odhr

Facebook: facebook

Twitter: twitter

Score: 50.0

Les activié de candidat:

Type d'activité: Politique

durée d'activité: 60

Support d'activité: Excel

-----

Type d'activité: Scientifique

durée d'activité: 9384

Support d'activité: something

-----

Type d'activité: Sociale

durée d'activité: 9384

Support d'activité: something

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----- les Avis -----

Aymen jlassi: 65

Ahmed Hamouda: 12

Press Enter key to continue...

█