GROUP #5: "NullPointerException"

- ILHAN RANDY ROGEL VILLA
- MATEO NICOLAY ROGERON MAILA
- ANDRÉS ALEJANDRO ROMERO ZAMBRANO
- LUIS EDUARDO SAGNAY PILAMUNGA

Potential Objects and Classes

- 1. System
- 2. Electoral packages
- 3. Ecuadorian
- 4. Citizens
- 5. Montgar
- 6. Constituencies
- 7. CNE
- 8. Cne
- 9. Mixto
- 10. Género
- 11. Information
- 12. Storage
- 13. Vote
- 14. Shipping
- 15. DPEX

Classes and objects.

Objects	Classes
"cne"	DPEX
"Mixto"	Packages
"Género"	Storage
	User
	Constituency
	Consular Office
	Shipping
	PackageType
	Vote
	Voter

UML Diagram

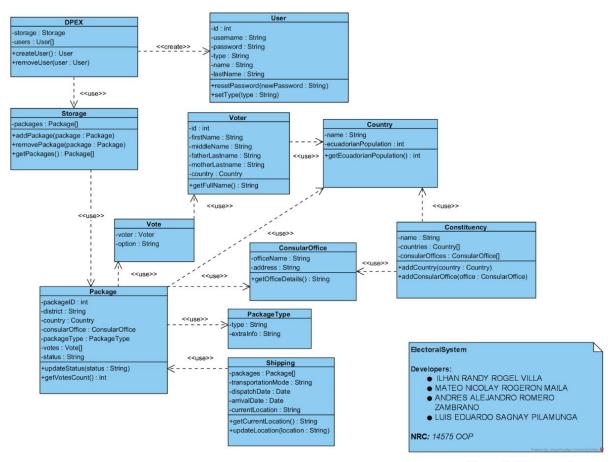


Figure 1. Classes diagram

Code

```
public class Storage{
    private Package[] packages;
   private Storage storage;
                                                     public void addPackage(Package package);
                                                     public void removePackage(Package package);
   public User createUser();
   public void removeUser(User user);
public class Package{
                                                        public class User{
   private int packageId;
   private String distric;
                                                             private int id;
   private Country contry;
                                                             private String username;
   private ConsularOffice consularOffice;
                                                             private String password;
   private PackageType packageType;
   private Vote[] votes;
private String status;
                                                             private String type;
                                                             private String name;
                                                             private String lastName;
   public int getVotesCount();
```

```
public class Voter{
                                                            private int id;
                                                            private String firstName;
                                                           private String middleName;
                                                           private String fatherLastName;
       public class Vote{
                                                            private String motherLastName;
                                                            private Country country;
             private Voter voter;
             private String option;
                                                            public String getFullName();
     public class ConsularOffice{
         private String officeName;
                                                        public class PackageType{
          private String address;
                                                             private String type;
                                                             private String extraInfo;
          public String getOfficeDetails();
    public class Shipping{
       private Package[] packages;
private String transportationMode;
                                                      public class Country{
       private Date dispatchDate;
                                                         private String name;
       private Date arrivalDate;
                                                          private int ecuadorianPopulation;
       private String currentLocation;
       public String getCurrentLocation();
                                                          public int getEcuadorianPopulation();
       public void updateLocation(String location);
10 }
     public class Constituency{
         private String name;
         private Country[] countries;
         private ConsularOffice[] consularOffices;
         public void addCountry(Country country);
         public void addConsularOffice(ConsularOffice office);
```