Team: 2 -> 7, 10, 10

Name: **BugBusters**
Project's name: **MedicByte**

1. Cobacango Michael
2. Iza Bryan
3. Jacome Andres
4. Jurado Junior
5. Loachamin Johnny

Objects:
1. **User**
   Attributes:
   - -id: int
   - -name: String
   - -info: UserInfo
   - -role: Role

   Methods:
   - sendEmail(subject: String, content: String): void
   - getRole(): Role
   - hasRole(role: Role): boolean
   - getInfo(): UserInfo

2. **UserInfo**
   Attributes:
   - -fullname: String
   - -surname: String
   - -age: int
   - -gender: String
   - -identificationCard: String
   - -email: String
   - -phone: String
   - -address: Address

3. **Role:**
   Attributes:
   - -name: String
   - -permissions: Permission[]
   - -displayName: String

   Methods:
   - -hasPermission(name: String): boolean

4. **Permission:**
   Attributes:
   - -name: String
   - -value: boolean

5. **Medic**
   Attributes:
   - -id: int
   - -name: String
   - -info: UserInfo

-role: Role
          Method:
                    +listPatients(): Patient[],
                    +listReports(): Report[],
                    +getPatientInfo(patient: Patient): UserInfo

6.   Patient
          Attributes:
                    -id: int
                    -name: String
                    -info: UserInfo
                    -role: Role
           Method:
                    +listAppointments(): Appointment[]
                    +getAppointment(id: int): Appointment
7.   Appointment
          - Attributes
                    -id: int
                    -patient: Patient
                    -doctor: Doctor
                    -date: Date
                    -medicalUnit: MedicalUnit
                    -hospital: Hospital
           Methods
                    +reschedule(): void
                    +cancel(): void

8.   MedicalUnit (enum class)
          Oncology,
          Odontology,
          Gynecology,
          Traumatology,
          Pediatrics

9.   Hospital
                    Attributes
                    -name: String
                    -address: Address
                    -capacity: int

10.   calendar -------> X
11.   speciality ------> X
12.   nurse ----------> X (nurse inherit from User ?)
13.   medical unit---> X
14.   section----------> X
15.   medical record-> X
16.   age---------------> X (age could be an attribute? User::age)
17.   Address
          Attributes:
                    -city: String

-description: String
                        -postalCode: String

18.   <mark>Menu ---------------->X</mark>
19.   Report
       Attributes:
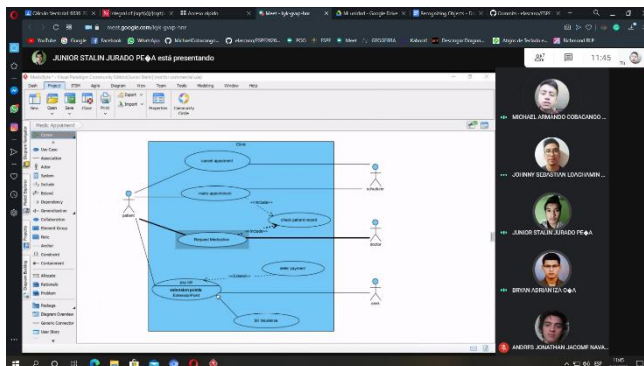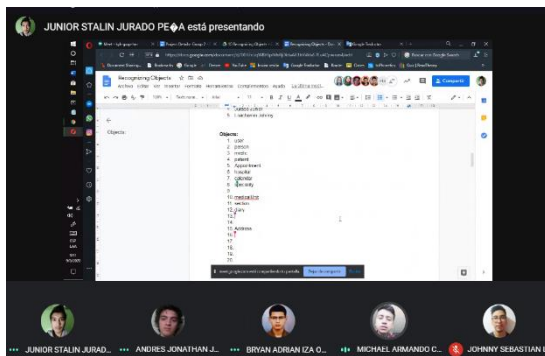   -content: String
                        -doctor: Doctor
                        -patient: Patient
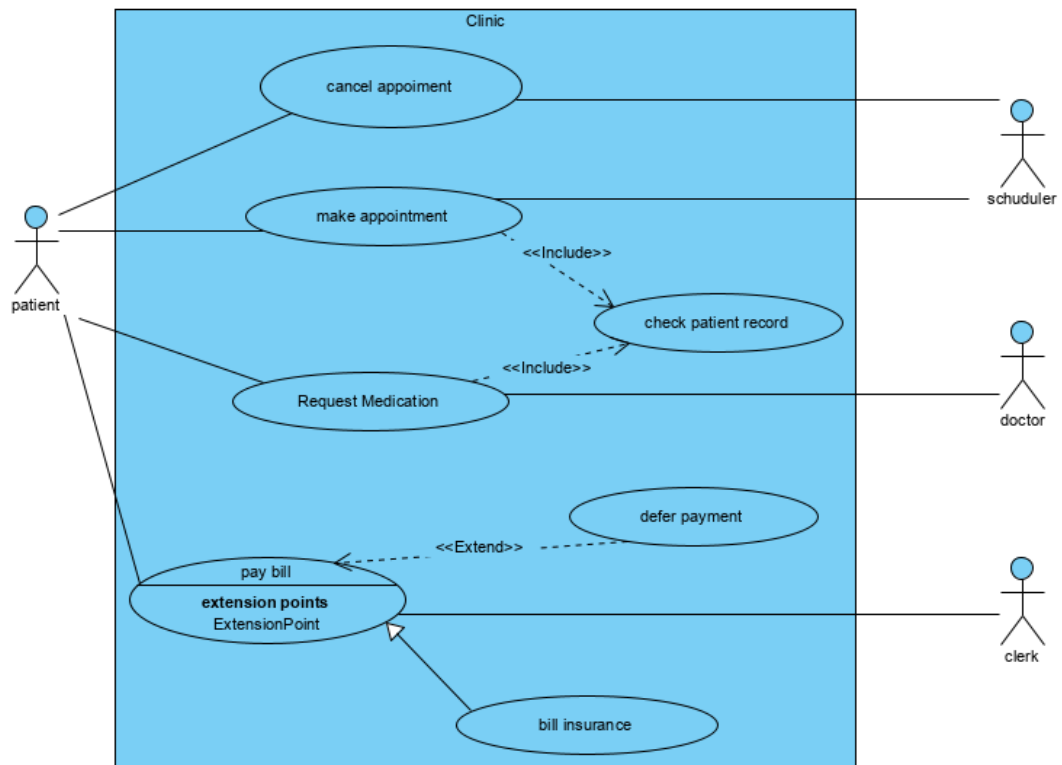   -date: Date
                        -
       Methods:
20.   <mark>laboratory---------> X</mark>
21.   <mark>medical supply---> X</mark>
22.   <mark>treatment ---------> X</mark>

User

-name : String
-surname : String
-age : Int
-gender : String
-identificationCard : String
-email : String
-phone : String
-address : String

+sendEmail(subject : String, content : String) : void
+getRole() : Role

UserInfo

-fullname
-surname : String
-age : int
-gender : String
-identificationCard : String
-email : String
-phone : String
-address : String

Role

-name : String
-permissions : Permission[]
-displayName : String

+hasPermission(rule : String) : boolean

Permission

-key : String

Medic

-name : String
-surname : String
-age : Int
-identificationCard
-gender : String
-email : String

+listAssignedPatienents() : Patient[]
+listReport() : Report[]
+viewPatientInfo() : void

Patient

-id : int
-patient : User
-doctor : User
-date : Date
-speciality : String
-address : String
-hospital : Hospital

+reschedule() : void
+cancel() : void
+getAssignedDoctor() : User
+getPatient() : User

Appointment

-id : int
-patient : User
-doctor : User
-date : Date
-speciality : String
-address : String
-hospital : Hospital

+reschedule() : void
+cancel() : void
+getAssignedDoctor() : User
+getPatient() : User

<<enumeration>>
MeditUnit

Oncology
odontology
gynecology
traumatology
pediatrics

Hospital

-name : String
-medicalUnit : String
-speciality : User
-section : String
-floor : String

+nameHospital()
+assignedUnit()
+typeOfDoctor()
+consultationAdressHospital()

Address

+city() : String
+neighborhood() : String
+street() : String
+number() : String