### **Policlinic**

An administrative medical center provides n administrative management of patients performing consultations in a policlinic.

A patient has a unique number, name, address and telephone number. A patient is supervised by a general practitioner, also called family doctor, characterized by a serial number, name and phone number.

A patient can go to a policlinic for consultations with medical specialists. A consultation is carried out at on specific date a given policlinic by a specialist. Only consultations by appointment made on a date earlier than the consultation will be allowed.

A policlinic is characterized by a particular name, location and phone number. There are no two polyclinics with the same name in the same locality.

A policlinic groups several medical specialists. Nothing prevents that a single specialist doctor can give consultations in several policlinics. A medical specialist is not only characterized by a serial number and a name but also his specialties.

### Management rules

- 1. A patient is characterized by:
  - Unique Number
  - Name
  - address
  - Phone Number
- 2. General practitioner is characterized by:
  - 1. Serial Number
  - 2. Name
  - 3. Phone Number
- 3. Each patient is supervised by a GP
- 4. A policlinic is characterized by:
  - 1. Name
  - 2. Address
  - 3. Phone Number
- 5. A specialist is characterized by:
  - 1. Serial Number
  - 2. Name
  - 3. Phone Number
- 6. Each specialist has one or more specialties
- 7. Each specialist can give consultations in one or more policlinics
- 8. Each policlinic groups several specialists
- 9. A patient can make an appointment for a consultation with specialist in a given policlinic, The specialist must work in this policlinic

- 10. The appointment is for a date that is later than the date of appointment
- 11. If the consultation does not take place a new appointment must be made no matter what are reasons for the failure
- 12. Lists of appointment for every specialist are made at the beginning of the day.
- 13. In the end of every day two reports are made:
  - 1. A log of appointment made
  - 2. A log of consultations done

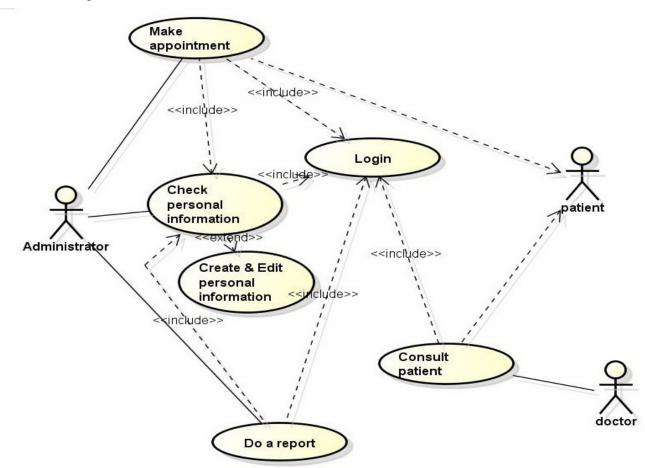
### Organizational rules:

- 14. Only the administrator registers the appointments from 9 to 17 every work day.
- 15. Consultations not done on the day of appointment are canceled.

### Technical rules:

16. The DBMS used is MS Access

### Use Case Diagram



**Tasks** 

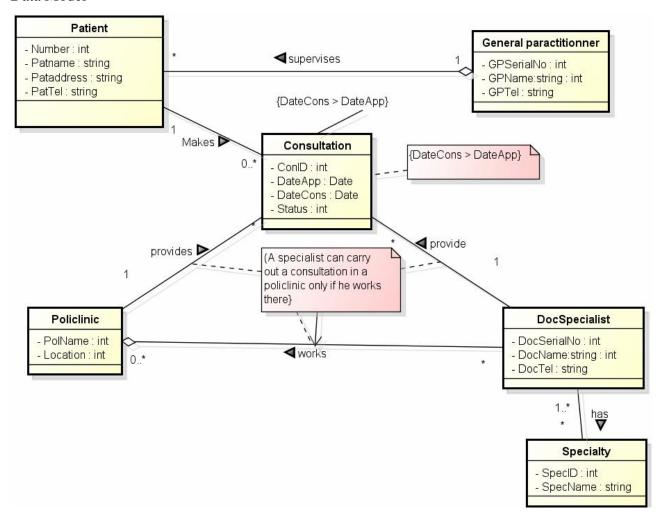
Name	Definition	Rules	Trigger	Frequency	Entry	Result
T1	Create a personal information	MR2,4,5	A new doctor	A few times a month	Personal data	Personal Record
T2	Make an appointment	MR9,10	A call from patient	Many times a day		Appointment record

Т3	Do a consultation	MR9,10	Appointment & Patient coming	Many times a day	Appointment record	Modified Appointment
T4	Do a list of appointments	MR9,12	Doctor coming	A few times a day	Appointments	List
T5	Do a log of appointments	MR13	In the evening	Every evening	Appointments	List
T6	Do a log of consultation	MR13	In the evening	Every evening	Appointments	List

Dictionary

Name	Definition	Struct	Size	Type	Constraints	Exemples	Rule
PatNo	Patient Number	N	10	elt	>0, Not Null	6704356457	1
PatName	Patient name	A	20	elt	Not Null	Mary Smith	1
PatAdress	Patient address	A	40	elt		London, 37 Baker Str	1
PatTel	Patient Phone Number	A	17	elt	Valid Phone Number	+322134564	1
GPSer	Serial Number of the GP	N	5	elt	>0, Not Null		2

### Data Model



### **Relational Model**

