

Appendix-A

Analysis

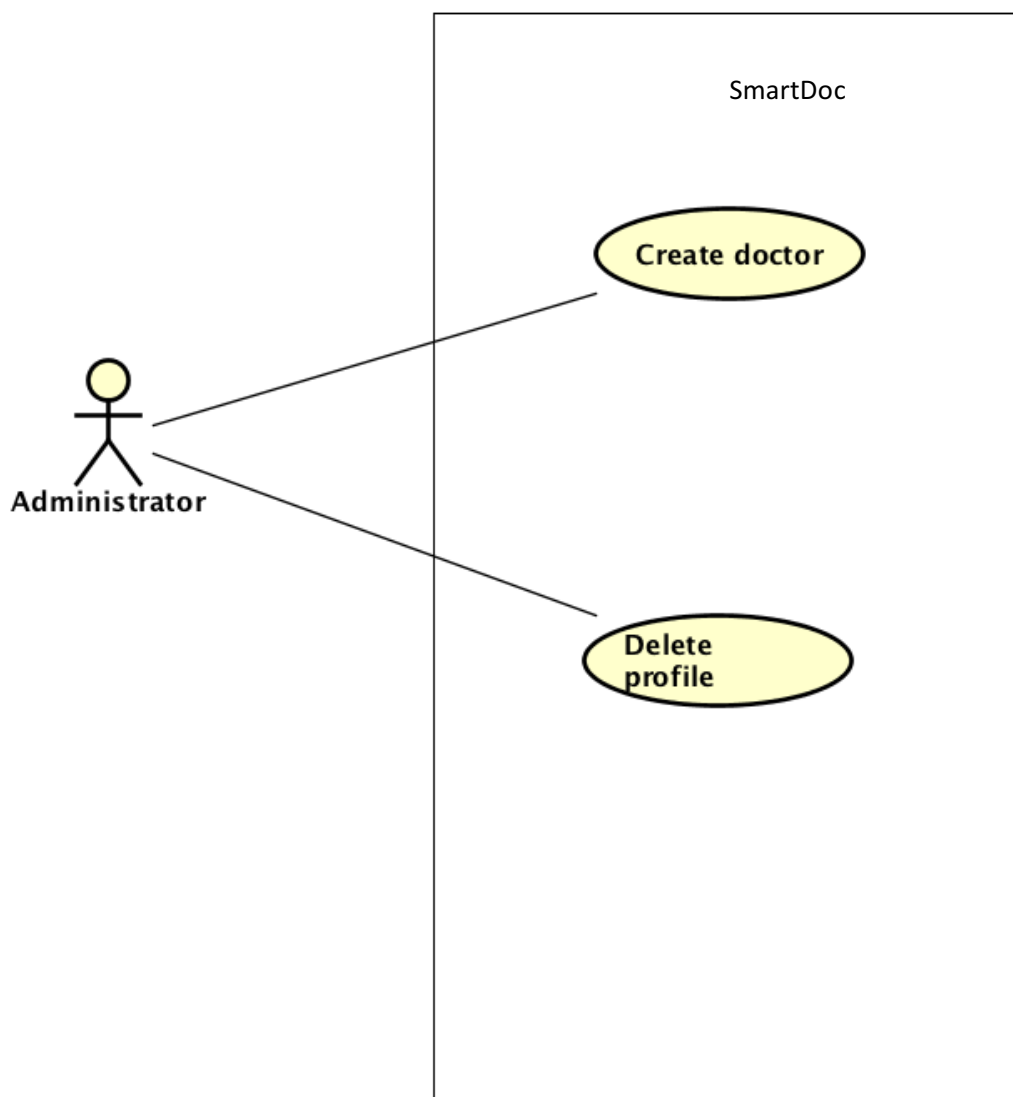


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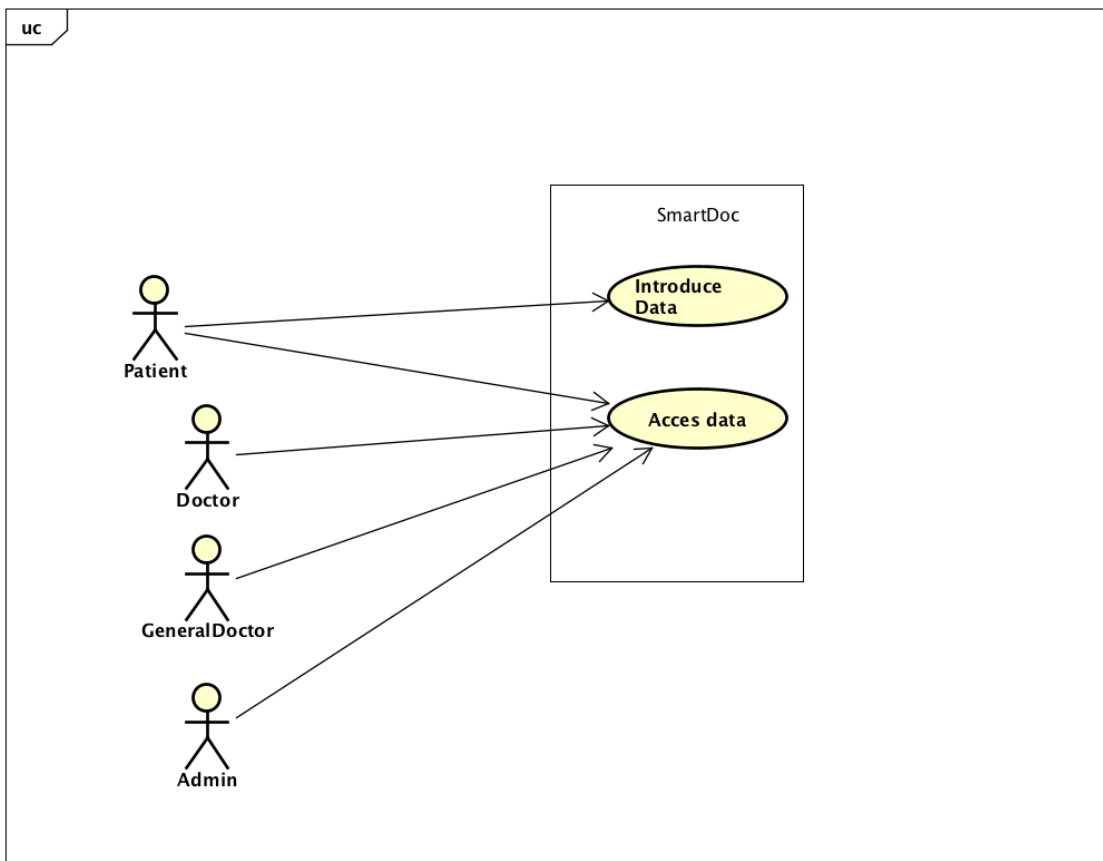
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1. Use case diagrams

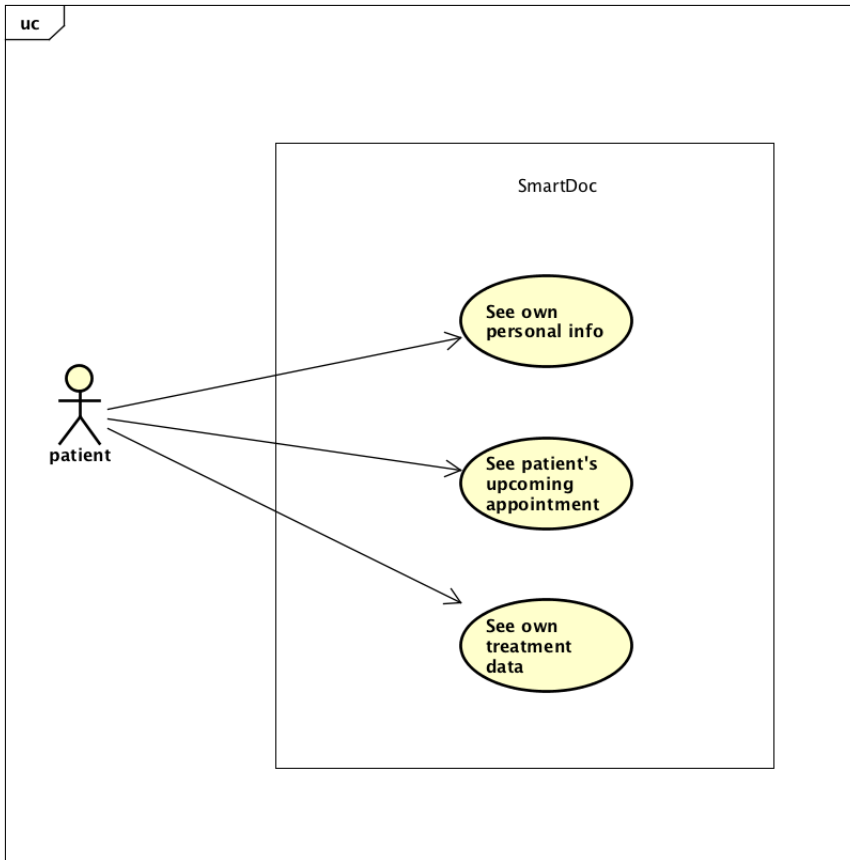
1.1. Administrator should be able to store or delete doctors' data



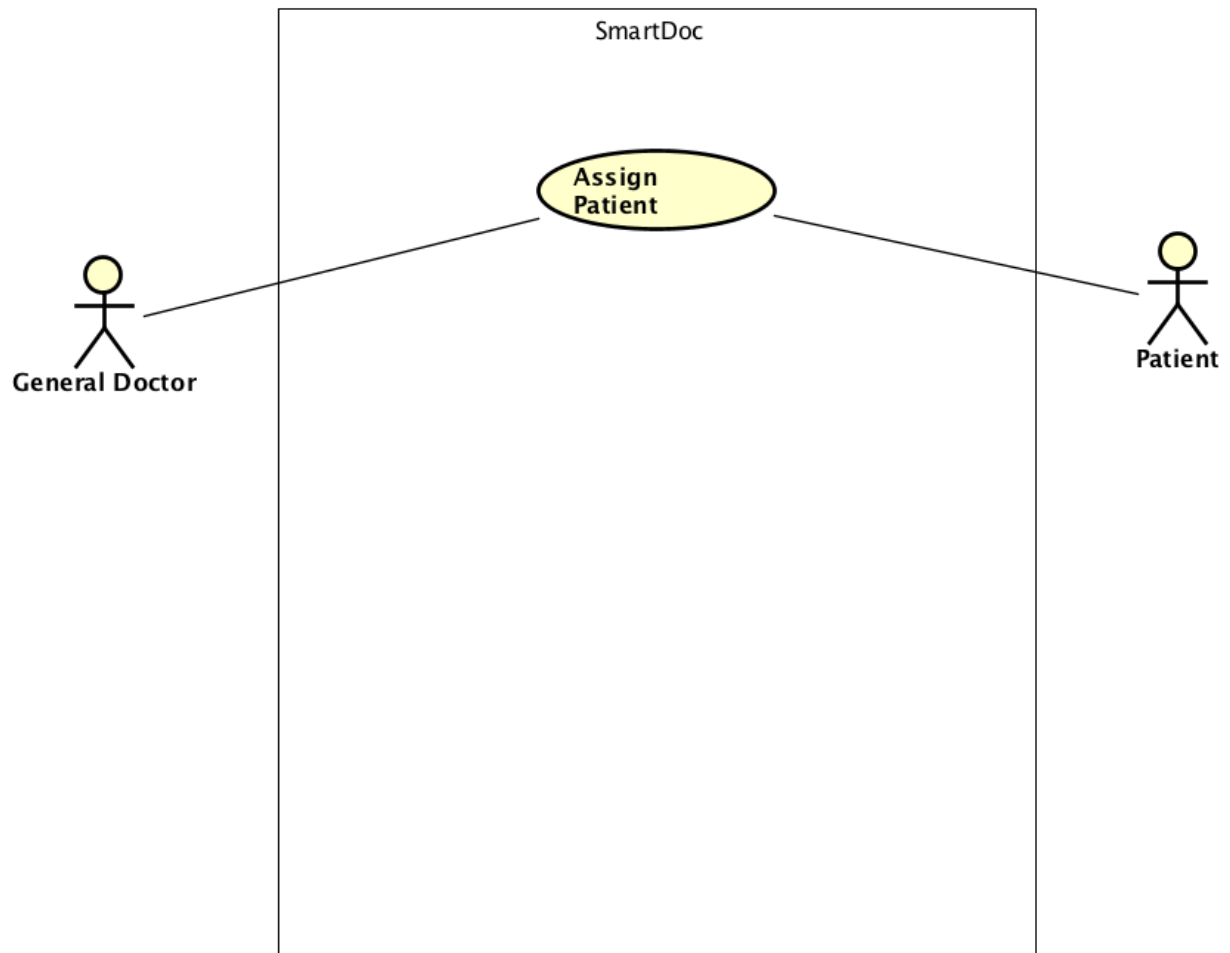
1.2. System users should be able to store their data and have their data protected



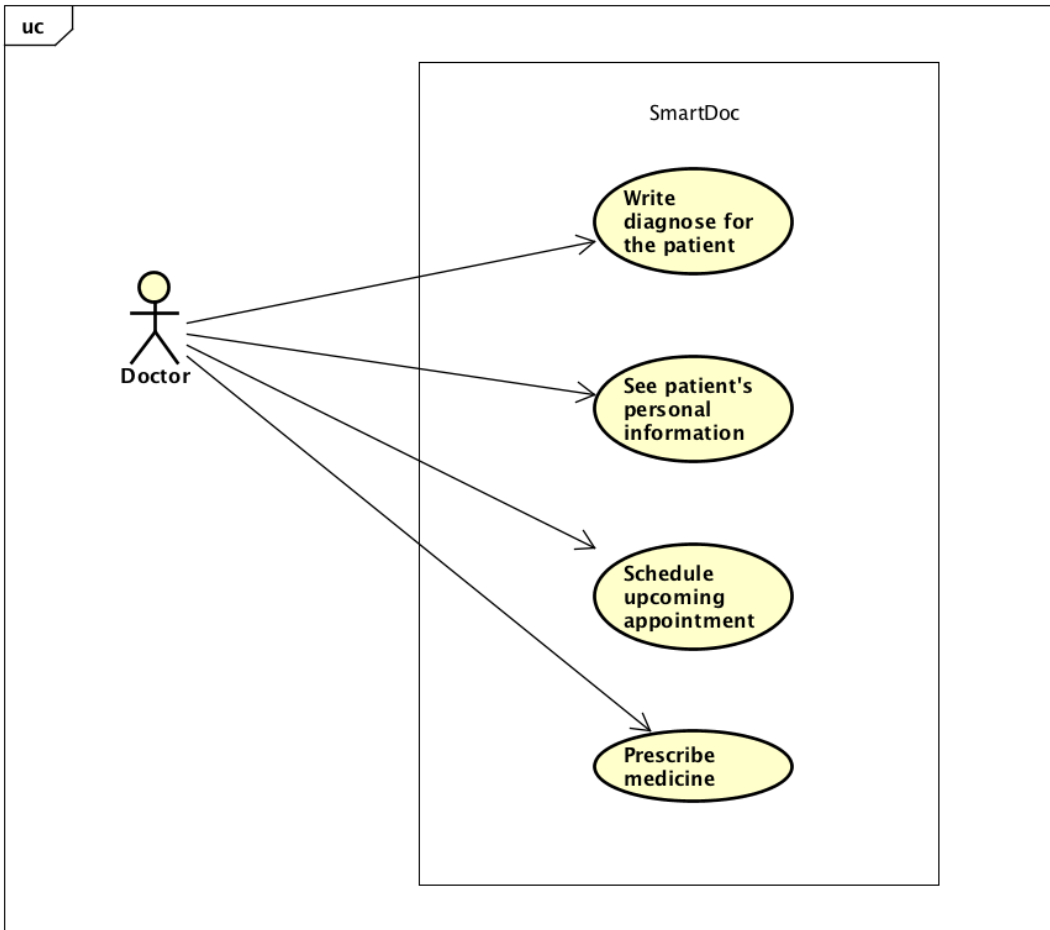
1.3. Patient should be able to view his data



1.4. General doctor should be able to manage which doctor is responsible for each patient.



1.5. Specific doctor should be able to access and edit patient's data



2. Use case description

2.1. UseCase: Create Doctor

ITEM	VALUE
UseCase	Create doctor
Summary	Administrator is responsible to create doctors who are working in the Hospital.
Actor	Administrator
Precondition	Administrator must be logged already into the system.
Postcondition	The system should show different fields to fill depending in the option (create, modify or delete doctor) that has been chosen by the administrator.
Base Sequence	1. Administrator logs in the system. 2. Administrator chooses between the options displayed (create or delete doctor), the option "create". 3. The system should display some fields that need to be filled by the administrator. 3.1. Administrator should type First Name, Last Name, CPR, Birthday, Speciality, Phone Number, Username, Password, E-mail. 3.2. Administrator should choose an option in the fields Gender (between female, male or other) and Type (between General or Specific). 4. Administrator should press the button Register, to save a new doctor in the system. 4.1. If the operation has been realized successfully, the system will show a message of success. 5. To add a new doctor, Administrator should press the button Clear, to get all the fields empty and repeat the same operation. 6. To come back to the previous page, administrator should press the button Back.
Branch Sequence	
Exception Sequence	If FirstName is a number, the system should not work (but it is working). If LastName is a number, the system should not work (but it is working). If CPR does not follow the structure, the system should not work (but it is working). If the date does not follow the structure, the system does not allow to the administrator to add a new doctor (but any message is displayed). If the month or day of the day of birth of the doctor is illegal, the system does not allow to the administrator to add a new doctor (but any message is displayed). If the doctor has borned in a year that has not passed yet, the system should not work (but it is working). If one of the fields is empty, the system does not allow to the administrator to add a new doctor (but any message is displayed). If the Administrator types a speciality for the doctor, but in the field "type" chooses the option "general", the system should not work (but it is working).
Sub UseCase	
Note	

2.2. UseCase: Delete profile

ITEM	VALUE
UseCase	Delete profile
Summary	Administrator is responsible to delete the profiles of the doctors who are not working anymore in the Hospital and of the patients who will not be treated anymore in the Hospital.
Actor	Administrator
Precondition	Administrator must be logged already into the system. The doctor selected must be already created in the system.
Postcondition	The system should show a CPR field to let the administrator the doctor profile which will be deleted.
Base Sequence	1. Administrator logs in the system. 2. Administrator chooses between the options displayed (create or delete profile), the option "delete". 3. The system should display a CPR field. 4. Administrator must fill this field with the CPR of the profile who will not be registered in the Hospital system any longer. 5. Administrator must press the Continue Button to delete the profile. 5.1. If the operation has been realized successfully, the system will show a message of success. 6. To delete another profile, Administrator should press the button Clear, to get the field empty and repeat the same operation. 6. To come back to the previous page, the administrator should press the button Back. 7. To log out of the administrator account, the administrator should press the sign-out button
Branch Sequence	
Exception Sequence	The system must not allow to delete profiles that have not been previously registered (but any message will be displayed). The system must not allow to delete a profile that has been already deleted (but any message will be displayed).
Sub UseCase	
Note	

2.3. UseCase: Access data

ITEM	VALUE
UseCase	Acces data
Summary	The user can acces his data by logining into the system and the syste m will display his personal information which include his name, date o f birth, cpr and email.
Actor	Patient Doctor GeneralDoctor Admin
Precondition	The user must already have an account created.
Postcondition	The system display the homepage with his personal information.
Base Sequence	1. The user enter his username and password. 2.The user submit his username and password. 3.The system verifies his username and password. 4.The system validate his username and password. 5.The system display the homepage with the personal information.
Branch Sequence	
Exception Sequence	1.a The user enter the wrong username or the wrong password. 1.The system prompts "Wrong username or password" 2. Use case return to step 1 1.b The user forgot his password 1.The system prompts the user to introduce his username 2.Use case return to step 1
Sub UseCase	
Note	

2.4. UseCase: Introduce data

ITEM	VALUE
UseCase	Introduce Data
Summary	The patient will be registered in the system by filling the fields with his personal information which include his first name, last name, cpr, date of birth, email and choosing his username and password.
Actor	Patient
Precondition	The patient must not be already registered.
Postcondition	The patient will be registered in the system and added to the database.
Base Sequence	1.The user enter his personal information(first name, last name, cpr, phone number, date of birth,username,password, email,gender) 2.The user submit his personal informations 3.The system display "Succes "
Branch Sequence	
Exception Sequence	1.a The user enter an existing username 1.The system prompts "Existing username" 2.Use case return to step 1 2.a 1.The user clear the information 2.Use case return to step 1
Sub UseCase	
Note	

2.5. UseCase: See own personal info

ITEM	VALUE
UseCase	See own personal info
Summary	Patient is able to see own personal information.
Actor	patient
Precondition	Patient need to be registred in system.Pattient is signed to the account .
Postcondition	Patient will be able to see own personal information
Base Sequence	1.The patient login in to the system 2.The patient click on "My Info" 3.Patient can see his/her personal informations which include his name,cpr,date of birth, speciality, phone, email.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

2.6. UseCase: See own treatment data

ITEM	VALUE
UseCase	See own treatment data
Summary	Patient is able to see own treatment data.
Actor	patient
Precondition	Patient need to be registred in system.Pattient is signed to the account .
Postcondition	
Base Sequence	1.The patient login in to the system 2.The patient click on "My Info" 3.Patient can see his/her treatment data.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	Patient meet with doctor about his treatments

2.7. UseCase: See patient s upcoming appointment

ITEM	VALUE
UseCase	See patient's upcoming appointment
Summary	Patient is able to see own upcoming appoitment
Actor	patient
Precondition	Patient need to be assigned to the specific doctor.
Postcondition	
Base Sequence	1.The patient login in to the system 2.The patient click on "My Info" 3.Patient can see his/her personal upocoming appoitment
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

2.8. UseCase: Assign Patient

ITEM	VALUE
UseCase	Assign Patient
Summary	General doctor assign a specific patient to a specific doctor – to allow the doctor to be able to display the data for this patient
Actor	General Doctor Patient
Precondition	General doctor must first be logged in
Postcondition	Specific patient is assigned to a doctor in a database
Base Sequence	1. General doctor clicks the manage patients button 2. General doctor is provided a cpr by a patient 3. General doctor writes the cpr of the patient in a displayed field 4. General doctor chooses the cpr of a doctor from the table and inserts it into displayed input field
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	General doctor needs first to be logged in

2.9. UseCase: Write diagnose for the patient

ITEM	VALUE
UseCase	Write diagnose for the patient
Summary	A specific doctor is able wrote the diagnose of a patient.
Actor	Doctor
Precondition	Patient need to be assigned to the specific doctor.
Postcondition	Patient will be able to see his diagnose.
Base Sequence	1.The doctor click on "Go to my pacients" 2.The doctor select the cpr of the patient 3.The doctor click on "Continue" 4.The system returns doctor "Current state" page 5.The doctor fill the "Problem" field 6.The doctor click "Apply" button 7.The system returns "Operation completed without errors"
Branch Sequence	
Exception Sequence	1.a The doctor click on "My info" 1.The system returns doctor personal informations which include his name,cpr,date of birth, speciality, phone, email. 1.b.The doctor click on "Sign out" 1.The system returns to login page
Sub UseCase	
Note	

2.10. UseCase: Prescribe medicine

ITEM	VALUE
UseCase	Prescribe medicine
Summary	A specific doctor is able to write the prescription for a patient.
Actor	Doctor
Precondition	Patient need to be assigned to the specific doctor.
Postcondition	Patient will be able to see his prescription.
Base Sequence	1.The doctor click on "Go to my pacients" 2.The doctor select the cpr of the patient 3.The doctor click on "Continue" 4.The system returns doctor "Current state" page 5.The doctor fill the "Prescription" field 6.The doctor click "Apply" 7.The system returns "Operation completed without errors"
Branch Sequence	
Exception Sequence	1.a The doctor click on "My info" 1.The system returns doctor personal informations which include his name,cpr,date of birth, speciality, phone, email. 1.b.The doctor click on "Sign out" 1.The system returns to login page
Sub UseCase	
Note	

2.11. UseCase: Schedule upcoming appointment

ITEM	VALUE
UseCase	Schedule upcoming appointment
Summary	A specific doctor is able to schedule appointments with his patients.
Actor	Doctor
Precondition	Patient need to be assigned to the specific doctor.
Postcondition	Patient will be able to see his upcoming appointment.
Base Sequence	<ol style="list-style-type: none"> 1.The doctor click on "Go to my pacients" 2.The doctor select the cpr of the patient 3.The doctor click on "Continue" 4.The system returns doctor "Current state" page 5.The doctor fill the "Upcoming appointment" field 6.The doctor click "Apply" 7.The system returns "Operation completed without errors"
Branch Sequence	
Exception Sequence	<ol style="list-style-type: none"> 1.a The doctor click on "My info" 1.The system returns doctor personal informations which include his name,cpr,date of birth, speciality, phone, email. 1.b.The doctor click on "Sign out" 1.The system returns to login page 5.a The doctor fill the "Upcoming appointment" field with an invalid date 1. The system returns "Invalid date" and prompt to the doctor to introduce a new date
Sub UseCase	
Note	

2.12. UseCase: See patient s person information

ITEM	VALUE
UseCase	See patient's personal information
Summary	A specific doctor is able to see the patient personal information which include his name,email, phone, cpr, birthday, gender.
Actor	Doctor
Precondition	Patient need to be assigned to the specific doctor.
Postcondition	
Base Sequence	1.The doctor click on "Go to my patients" 2.The doctor select the cpr of the patient 3.The doctor click on "Continue" 4.The system returns doctor "Current state" page which display patient personal information.
Branch Sequence	
Exception Sequence	1.a The doctor click on "My info" 1.The system returns doctor personal informations which include his name,cpr,date of birth, speciality, phone, email. 1.b.The doctor click on "Sign out" 1.The system returns to login page
Sub UseCase	
Note	

3. Activity diagram

3.1. Activity diagram for Use Case 8

