SISTEM ROBOTIZAT SEMI-AUTOMAT PENTRU TRANSPORTUL MEDICAMENTELOR

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# Memoriul tehnic

## Denumirea proiectului

Sistem robotizat semi-automat pentru transportul medicamentelor

1. Prefață

Prezentul proiect a demarat în data de 11.03.2021, prin prezentarea unei teme tehnice online, de către profesorul Gal-Nădășan Norbert.

Acesta are rolul de a ajuta medicii din spitale prin transportul automat de medicamente către pacienți.

## Nume de cod

MediCare

## Introducere

Proiectul nostru implementează un sistem robotizat pe care îl putem controla atât manual, cât și automat, iar prin intermediul lui putem distribui medicamente dintr-o magazie la fiecare pacient dintr-un spital. Robotul va urma linii desenate pe podea și va fi capabil să ocolească obstacole. Deasemea, fiecare medicament și pat va avea tag-uri RFID cu ajutorul cărora robotul le va identifica. Proiectul conține 4 module: o aplicație web, o componentă cloud, o aplicație mobilă și un modul de comandă al robotului.

1. Glosar de termeni

* **Cloud-ul** este o tehnologie care face referire la **serverele**, **software-ul** și **bazele de date** conectate la acele servere, ce pot fi accesate de oriunde în lume prin intermediul Internetului.

Un *server* este un program care furnizează servicii altor aplicații (numite aplicații client), aflate pe același calculator sau pe calculatoare diferite.

Un *software* este un set de informații necesare funcționării unui computer (sistemul de operare, limbaje de programare, programe-aplicații etc.).

O *bază de date* este o colecție organizată de informații sau de date structurate, stocate electronic într-un computer.

* **Un microcontroler** este un microcircuit care încorporează o unitate centrală (CPU) și o memorie împreună cu resurse care-i permit interacțiunea cu mediul exterior.
* **RFID** (identificare prin radio frecvență) reprezintă cea mai avansată tehnologie de identificare automată a obiectelor.  RFID necesită un echipament cititor şi tag-uri. Scanarea tagului cu unde radio nu necesită o poziţionare precisă a obiectului la citire și nu este necesar contactul direct între tag și echipamentul de citire, deoarece câmpul de radiofrecvență trece prin orice material nemetalic.
* **Bluetooth** este un formă de comunicare radio, fără fir, creată pentru a transfera date pe distanțe scurte, între dispozitive de diverse tipuri.
* **Interfața** este un punct (loc) de interacțiune dintre două unități, dispozitive componente ale unui sistem. Poate fi interpretată ca o față (suprafață) de margine, de graniță a unui element, care servește comunicației spre și/sau dinspre alte elemente.
* **Front-endul** este acea parte a site-ului sau a aplicației web, pe care o putem vedea și cu care interacționează vizitatorii.
* **Back-endul** constă în trei părți: un server, o aplicație de interfață și o bază de date. Rolul principal al acestuia este cel de management de conținut.

1. Definirea cerințelor utilizator

Se va realiza o aplicație web și o aplicație mobilă dedicate utilizatorilor(medicii sau asistentele) . Ei vor putea accesa, vizualiza și edita informații din aplicație.

A. Cerințe funcționale

* **Aplicația Web**
* Să introducă date credențiale/contul pentru autentificare (nume de utilizator, cod de parafă, parolă)
* Să se înregistreze un medic nou(nume de utilizator, cod de parafă, parolă)
* Să poată să vizualizeze istoricul de transporturi ale pacientului care arată data, ora și numele medicamentelor.
* Să adauge un nou pacient; datele introduse vor fi: date demografice(nume, prenume, vârstă, CNP, adresă, medicamente – despărţită pe câmpuri, număr telefon, adresa de email, profesie, loc de muncă)
* Să editeze/adauge medicamente la transporturile care urmează să se desfășoare.
* Să editeze noi comenzi pentru robot unde să indice tipul medicamentului şi patul pacientului unde trebuie dus medicamentul, să se poată specifica și un interval orar pentru administrarea medicamentelor.
* Să vizualizeze alarmele care au fost generate de robot
* Să poată cauta un anumit pacient dupa nume/CNP
* Să poată să șteargă un pacient(externare)
* **Componenta Cloud**
* Administrarea utilizatorilor, se vor stoca datele credențiale (Nume, parafa și parola) ale fiecărui medic ce se înregistrează prin intermediul aplicației web și a fiecărei asistente ce se va înregistra utilizând aplicația mobilă.
* Stocare și accesare date despre pacient (nume, prenume, vârstă, CNP, medicamente adresă, – despărţită pe câmpuri, (număr telefon, adresa de email, profesie, loc de muncă), introduse de medici prin intermediul aplicației web.
* Stocare rapoarte de activitate trimise de către robot având în vedere transporturile efectuate de către acesta.
* Stocare comenzi pentru robot precum locul unde trebuie livrat un anumit medicament.
* **Aplicația mobilă**
* **Înregistrare**

Dacă asistenta nu are cont ea va putea să își creeze unul.

* **Autentificare**

Asistenta își va adauga contul(E-mail sau nume de utilizator și parolă)

* **Inițiere transport**

Se va alege pacientul și medicamentul, iar numărul transportul va fi contorizat automat.

* **Schimbare mod de comandă**

Fiind 2 moduri de a controla robotul, asistenta va putea alege daca acesta va merge singur sau îl va controla ea manual, asemenea unui telecomenzi.

* Control manual robot prin **bluetooth**

Va exista o funcție prin care robotul și telefonul se v-or conecta unul la celălalt.

* Afișare și transmitere **rapoarte** catre cloud legate de transport

Aceste rapoarte conțin medicamentul, pacientul, cine teleghidează robotul, avarii aparute. Deasemenea, aplicația va primi alarmă de la robot dacă apar ceva erori în timpul transportului.

* **Modulul de comandă al robotului**
* Posibilitatea de a se deplasa înainte și înapoi, de a efectua viraje la stânga și la dreapta sau de a se opri, în funcție de comanda manuală dată de utilizator.
* Detectarea și ocolirea automată a obstacolelor întâlnite pe parcursul traseului.
* Posibilitatea conectării la rețeaua wi-fi a clientului prin specificarea SSID-ului și parolei.
* Detectarea și urmărirea rețelei de linii de pe podea cu ajutorul senzorilor de linie.
* Identificarea și verificarea tag-urilor RF-ID ale medicamentelor și ale paturilor.
* Transmiterea de notificări sau alarme către aplicația mobilă.

B. Cerințe nefuncționale

Cerințe de siguranță în funcționare:

-Se poate ca linia traseului să fie acoperită la un moment dat de către un obstacol

-Se poate aglomera traseul atât de tare încat roboțelul să nu își poată continua drumul

-Se pot întampla erori umane care afectează integritatea fizică a robotului (se pot vărsa accidental substanțe pe el)

Timp de răspuns:

-Depinde de conexiunea wi-fi și bluetooth, dacă nu răspunde într-un anumit timp, se va încerca anunțarea pierderii conexiunii

Spațiu de stocare necesar:

-Se alocă dinamic

#### Analiză de risc

-Pierderea bazei de date, poate fi coruptă din cauza unei pene de curent sau a unei situații fizice, solutie: se reactualizează cu copia de rezervă

-Robotul poate rămâne fără baterii, soluție: avertisment

-Dacă robotul nu gasește tag-ul RFID se va semnala un advertisment

-Erori ale senzorilor, ardere componente, soluție: se apelează la specialist

## 7. Arhitectura sistemului

![Diagram

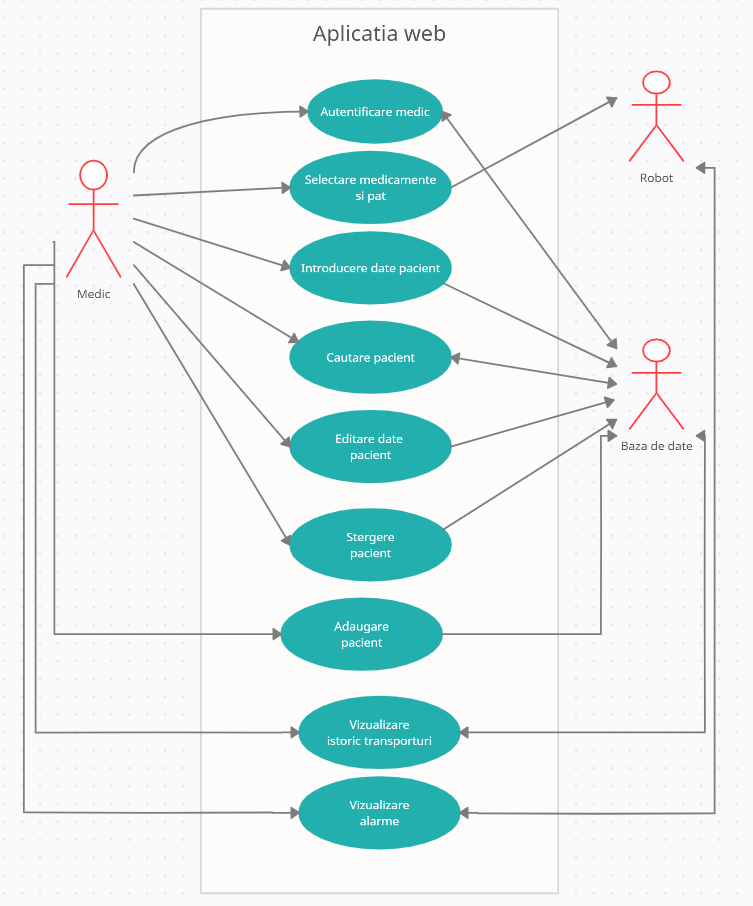
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Figură 1

## Specificații ale cerințelor de sistem

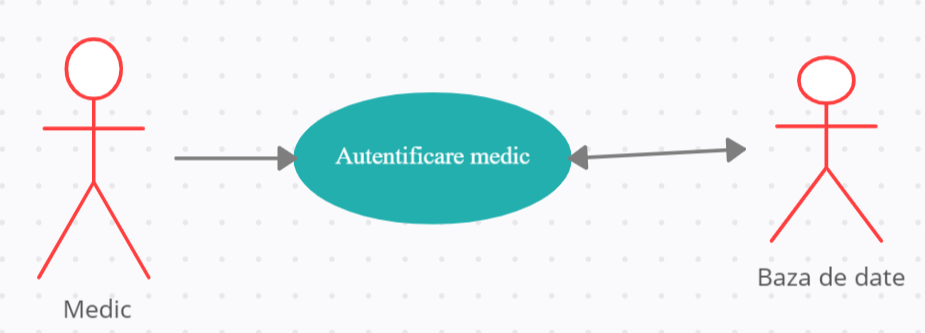
### Cazuri de utilizare

**Aplicația Web**



Figură 2

**Pentru autentificare:**

****

Actorii implicați: medic

Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul va introduce datele sale de autentificare

Datele procesate: Numele de logare, parola și codul de parafă

Răspunsul: Medicul va putea selecta medicamentele și patul unui pacient, să caute un pacient după nume din lista de pacienti, să editeze datele unui pacient și să șteargă un pacient

Comentarii: există cazul în care medicul nu se va putea autentifica și să nu poată accesa site-ul web.

**Pentru selectare medicamente și pat:**

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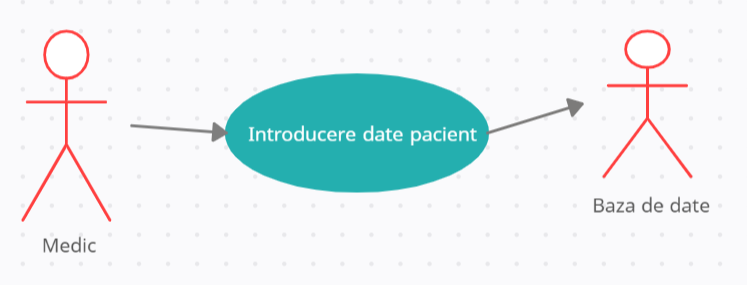
Actorii implicați: medic, robot

Descriere a interacțiunii, pas cu pas (adică a scenariului): După ce se autentifică medicul, el va putea să selecteze medicamentele și patul unui pacient, prin care dă comanda robotului să meargă după medicamente.

Răspunsul: Robotul va merge la patul selectat cu medicamentele selectate

Comentarii: Există cazul în care medicamentele selectate nu sunt în stoc, caz verificat de backend

**Pentru introducere date pacient:**

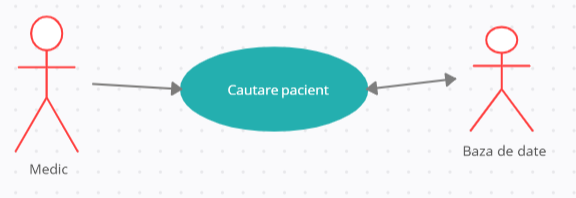
****

Actorii implicați: medic, baza de date

Descriere a interacțiunii, pas cu pas (adică a scenariului): După ce medicul este autentificat, el poate adăuga un pacient

Răspunsul: Medicul va introduce datele pacientului(ex:Nume, prenume,CNP, varsta), iar ele vor fi trimise la backend pentru verificare, apoi trimise la baza de date

**Căutare pacient:**

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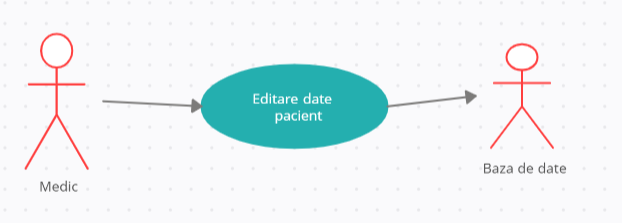
Actorii implicați: medic, baza de date

Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul introduce un nume în căsuța de căutare, rezultând în afișarea tuturor pacienților care au acel nume în lista de pacienți.

Răspunsul: Dacă numele din casuța de căutare este inclus în numele unui pacient din baza de date, acel pacient va fi afișat în listă.

Comentarii: Există cazul în care nu o să existe nici un paciet care să corespundă cu numele introdus în casuța de căutare, în acest caz lista va fi goală.

**Editare date pacient:**

****

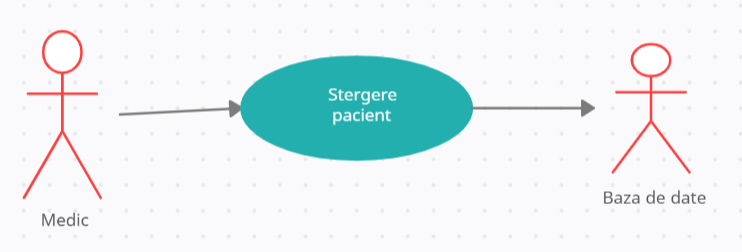
Actorii implicați: medic, baza de date

Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul apasă pe butonul de editare și poate să editeze datele unui pacient

Datele procesate: Toate datele care corespund unui pacient(Nume, prenume,CNP, varsta)

Răspunsul: Medicul va putea să modifice orice dată de la un pacient

**Ștergere pacient:**

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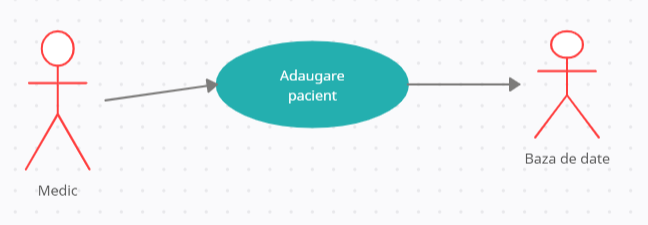
Actorii implicați: medic, baza de date

Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul apasă pe butonul de ștergere și trimite comanda la baza de date ca pacientul respectiv să fie șters

Datele procesate: pacientul

Răspunsul: Medicul va șterge pacientul din baza de date

**Adaugare pacient:**

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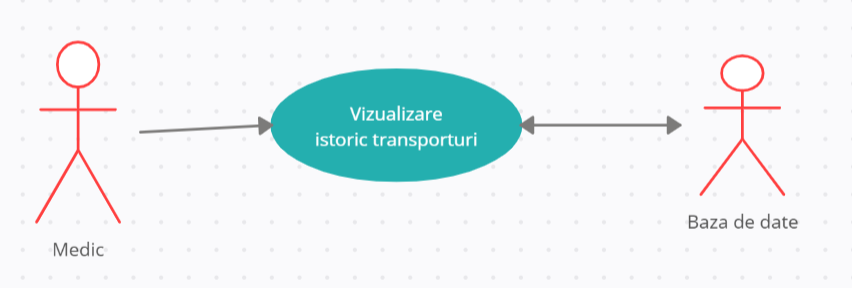
Actorii implicați: medic, baza de date

Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul apasă pe butonul de adăugare și trimite datele introduse de medic la baza de date

Datele procesate: pacientul

Răspunsul: Medicul va adauga pacientul în baza de date

**Vizualizare istoric transporturi:**

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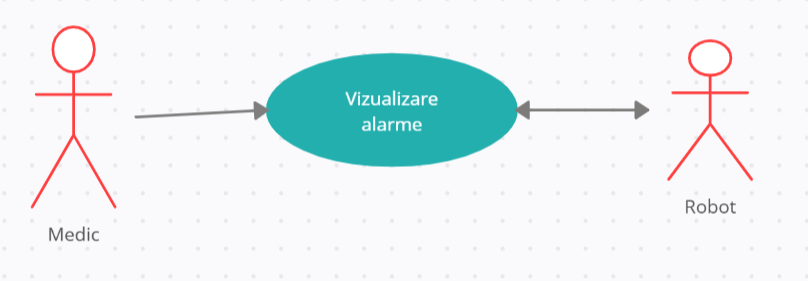
Actorii implicați: medic, baza de date

Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul apasă pe vizualizare pacient și apoi poate vedea istoricul transporturilor acelui pacient

Datele procesate: robot

Răspunsul: Medicul va putea vizualiza toate transporturile pentru fiecare pacient în parte

**Vizualizare alarme:**

****

Actorii implicați: medic, baza de date

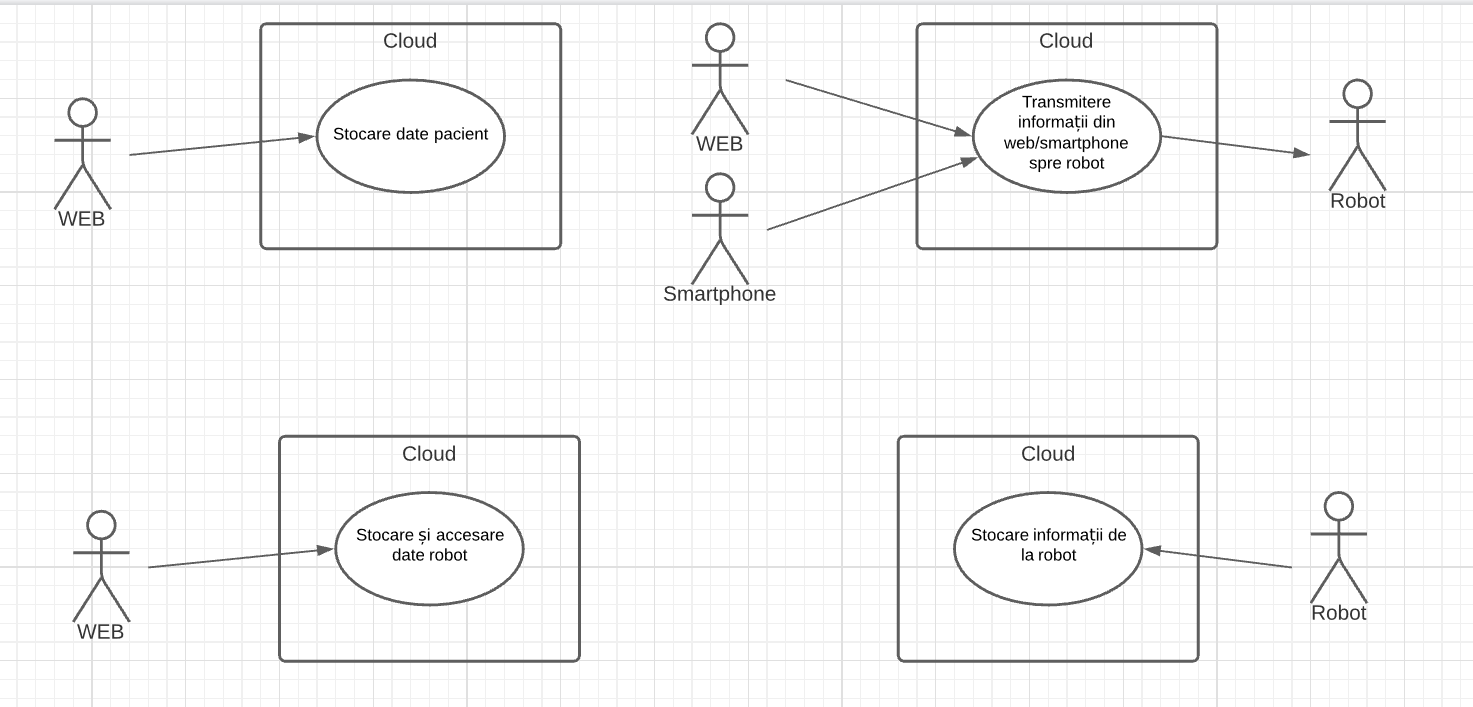
Descriere a interacțiunii, pas cu pas (adică a scenariului): După ce medicul este autentificat, el poate vizuliza alarmele generate de robot

Datele procesate: robot

Răspunsul: Medicul poate vizualiza alarmele generate de robot

**Componenta Cloud:**

**Pentru stocare date pacient:**



Actorii implicați: Aplicația Web

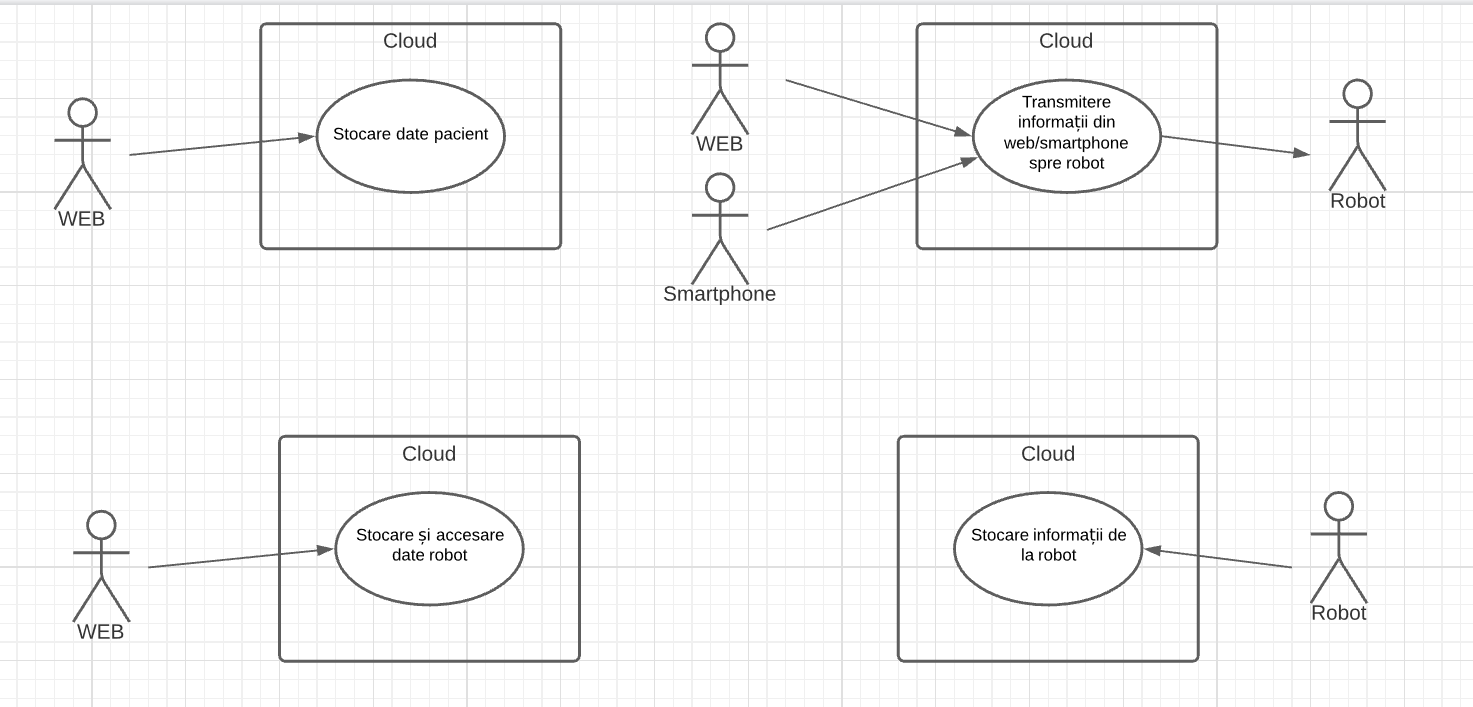
Descriere a interacțiunii, pas cu pas (adică a scenariului): Medicul va introduce datele despre pacient și medicamentele acestuia în aplicația web, iar aceste informații vor fi transmise în Cloud

Datele procesate: Date demografice (nume, prenume, vârstă, CNP, adresă – despărţită pe câmpuri, număr telefon, adresa de email, profesie, loc de muncă), tipul medicamentului și patul pacientului.

Răspunsul: Mesaj de introducere pacient reușită sau eșuată în funcție de caz

Comentarii: Va putea exista situația în care doi pacienți să aibe același nume și vor fi identificați după CNP.

**Pentru stocare și accesare date robot:**



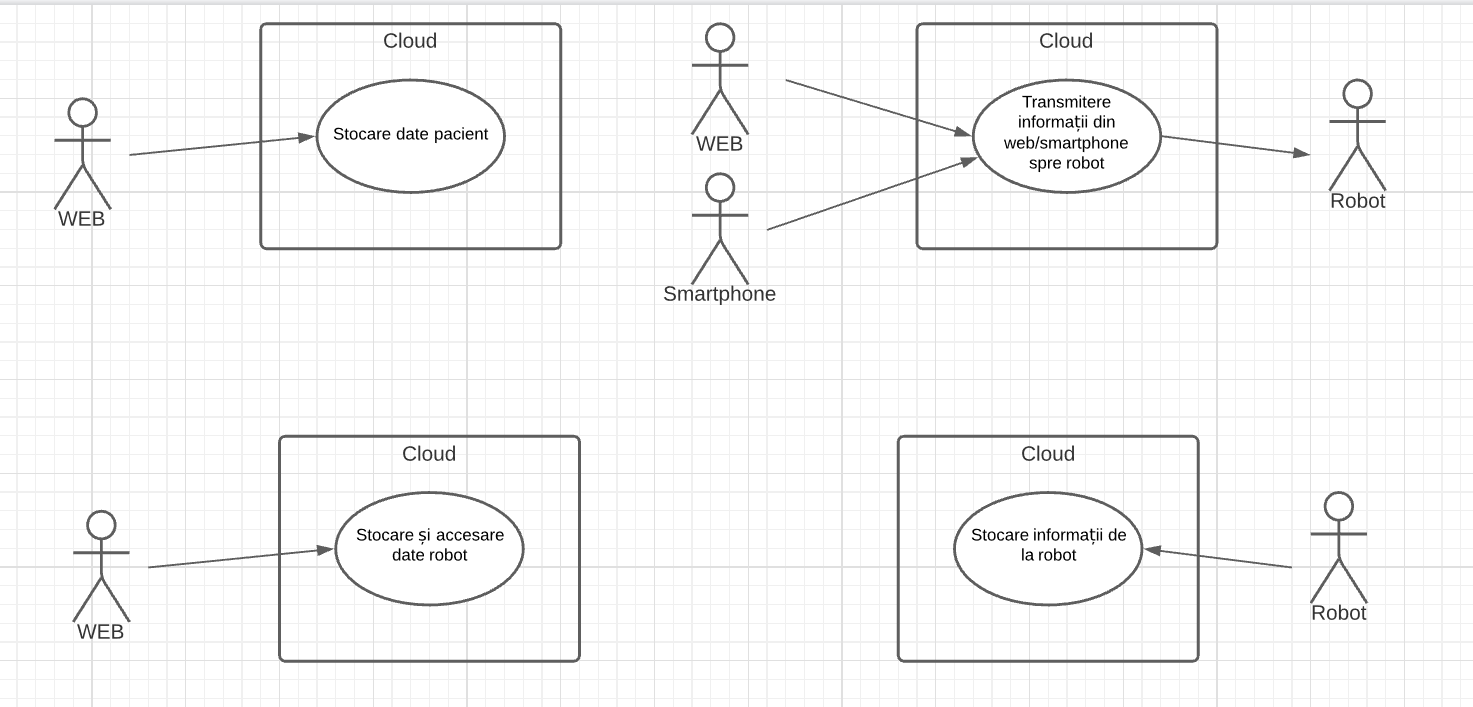
Actorii implicați: Aplicația web

Descriere a interacțiunii, pas cu pas (adică a scenariului): Prin intermediul aplicației Web, se vor transmite în cloud traseele pe care robotul le va avea pe parcurs

Datele procesate: În permanență pe cloud va trebui să existe starea actuala a robotului, cerințele ce le are de îndeplinit, dar și o hartă a spitalului cu paturile pentru pacienți

Comentarii: este posibil ca unele informații să se piardă pe parcursul drumului de la aplicația web până la robot.

**Pentru transmitere informații din aplicatia web/smartphone spre robot:**



Actorii implicați: Aplicatia Web, Aplicația mobilă și Robot

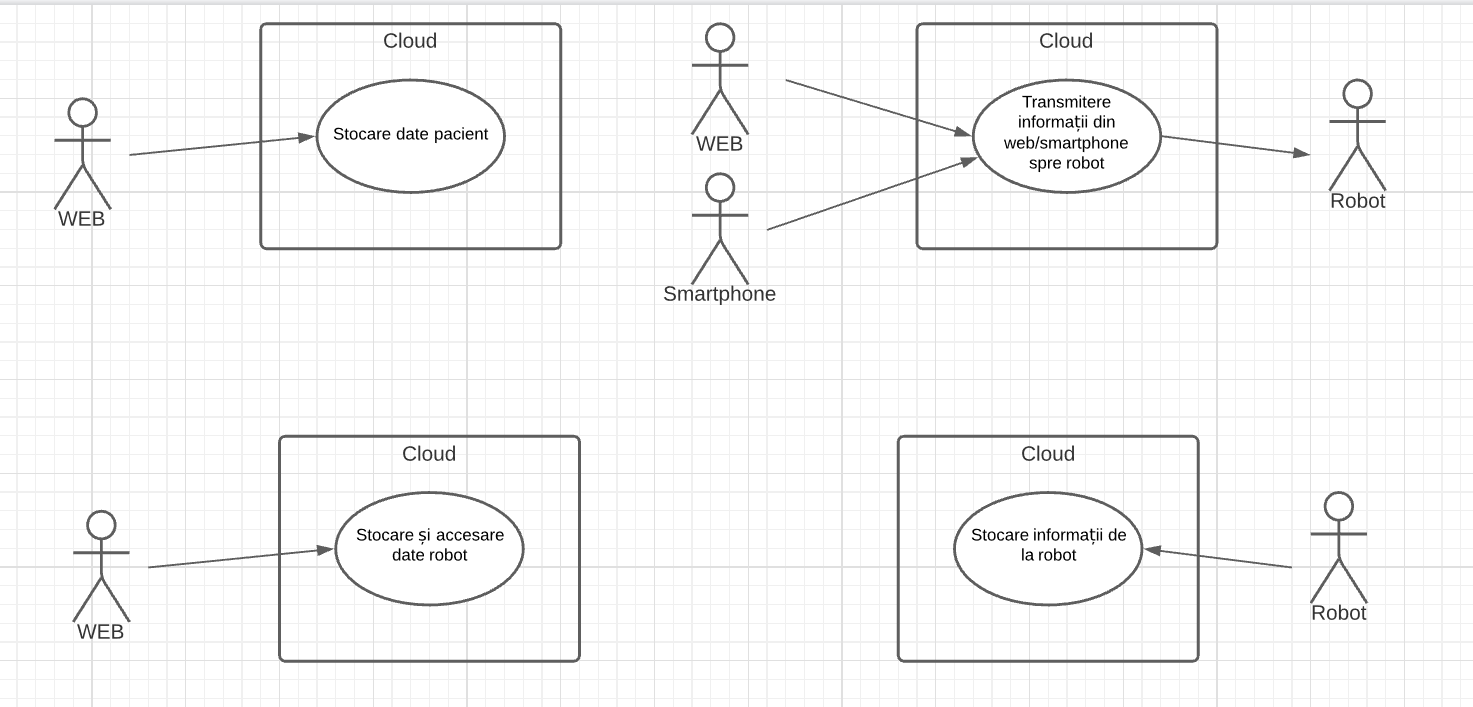
Descriere a interacțiunii, pas cu pas (adică a scenariului): Atât aplicația Web, cât și cea mobilă, pot transmite către robot informații referitoare la traseul pe care îl are acesta de parcurs

Datele procesate: Comenzile date de către utilizator pentru robot

Raspuns: Executarea cerințelor transmise sau generarea unor erori de către robot

Comentarii: Este posibil ca robotul să nu primească toate comenzile de la web sau aplicația mobilă din cauza unor conexiuni la internet instabile.

**Pentru stocare infromații de la robot:**



Actori implicați: Robot

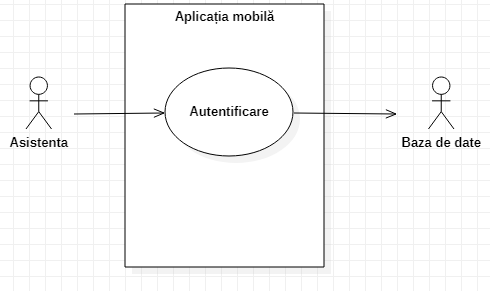
Descriere a interacțiunii, pas cu pas (adică a scenariului): Robotul va trimite notificari sau erori sub formă de raspuns la anumite acțiuni, în momentul întâlnirii unei probleme

Datele procesate: Mesajele primite de la robot

Raspuns: Trimiterea mai departe a răspunsului dat de robot, spre aplicația Web sau mobilă

Comentarii: Este posibil ca datorită unei conexiuni slabe la internet, notificarile trimise de robot să nu ajungă în cloud.

**Modul Smartphone**



**Pentru autentificare**:

Actorii implicați: Asistenta, Baza de date

Descriere a interacțiunii: Asistenta se va autentifica pe aplicație cu contul ei.

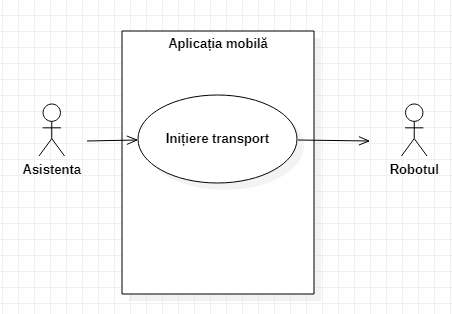
Datele procesate: Contul conține numele de utilizator și parola.

Răspunsul: Asistenta va putea să inițieze apoi un transport, să schimbe modul de control al

robotului, să îl controleze manual sau să vizualizeze rapoarte.

Comentarii: Există cazul în care asistenta nu se va putea autentifica și să nu poată accesa

aplicația.



**Pentru inițiere transport**:

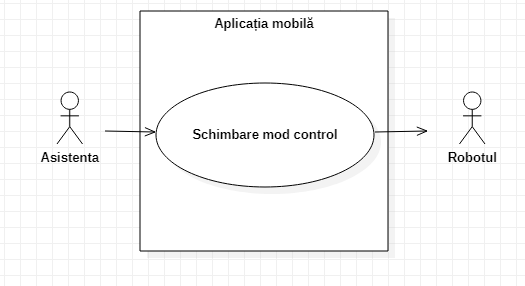
Actorii implicați: Asistenta, Robotul

Descriere a interacțiunii: Asistenta după ce se autentifică, va putea să inițieze un transport, prin

care dă comandă robotului să meargă după medicament la pacient.

Răspunsul: Robotul va merge la pacient să ii dea tratamentul, fie prin comanda manuală, fie

automat.

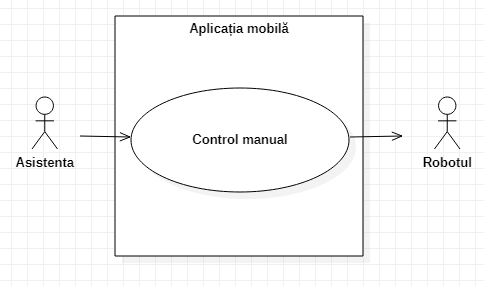


**Schimbare mod control**:

Actorii implicați: Asistenta,Robotul

Descriere a interacțiunii: Asistenta după ce se autentifică, va putea să schimbe modul de control.

al robotului, din manual în automat, sau invers.



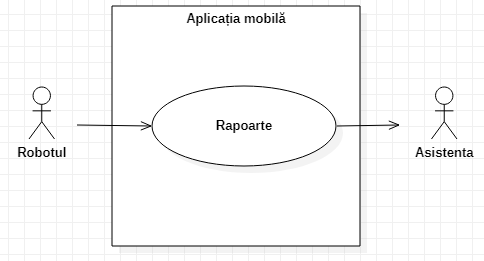
**Control manual:**

Actorii implicați: Asistenta, Robotul

Descriere a interacțiunii: Asistenta va teleghida robotul după cum dorește ea.

Răspunsul la stimuli: Robotul se deplasează dupa comanda asistentei, însă se va feri de

obstacole automat.

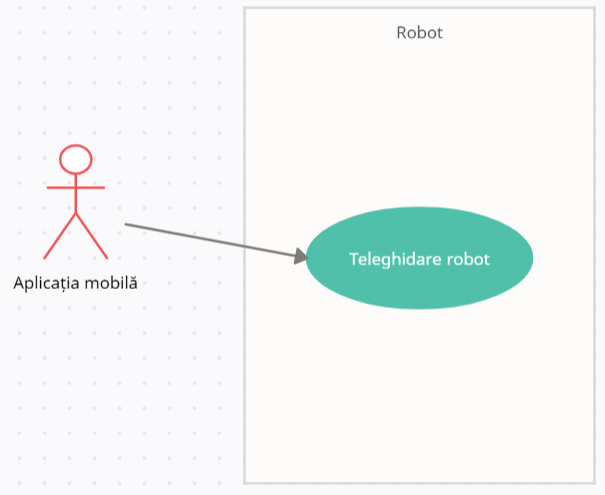


**Rapoarte:**

Actorii implicați: Asistenta,Robotul

Descriere a interacțiunii: Asistenta poate accesa aceste rapoarte legate de erori, date paciensți și transporturi.

**Modul comandă robot**

**Pentru teleghidare robot:**

**Pentru teleghidare robot:**

Actorii implicați: Aplicația mobila

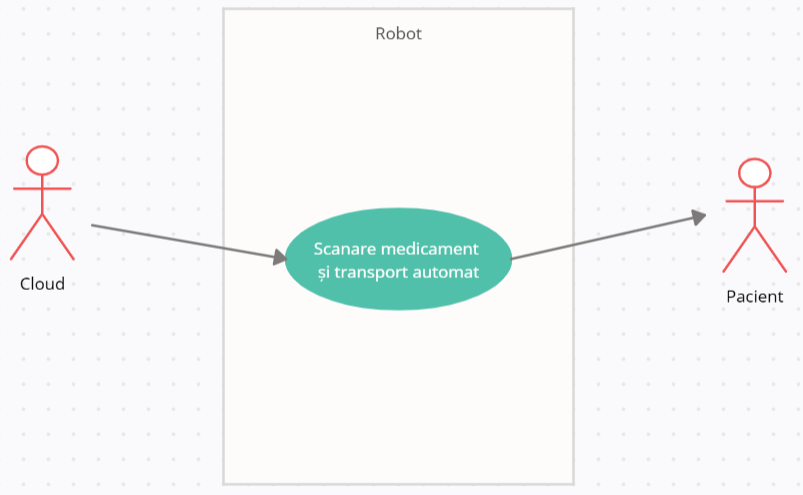
Descriere a interacțiunii, pas cu pas (adică a scenariului): După ce utilizatorul aplicației mobile, în cazul nostru asistenta sau medicul, apasă o comanda in aplicație, aplicația transmite către robot comanda respectivă, pe care mai apoi o execută.

Datele procesate: comenzile de viraj stânga, viraj dreapta, mers înainte sau mers înapoi

Răspunsul: Robotul se deplasează conform comenzilor utilizatorului.

Comentarii: Robotul poate rămâne fără baterii sau se poate afla înafara razei de acțiune a smartphone-ului.

**Pentru scanare medicament și transport automat:**



Actorii implicați: Cloud, Pacient

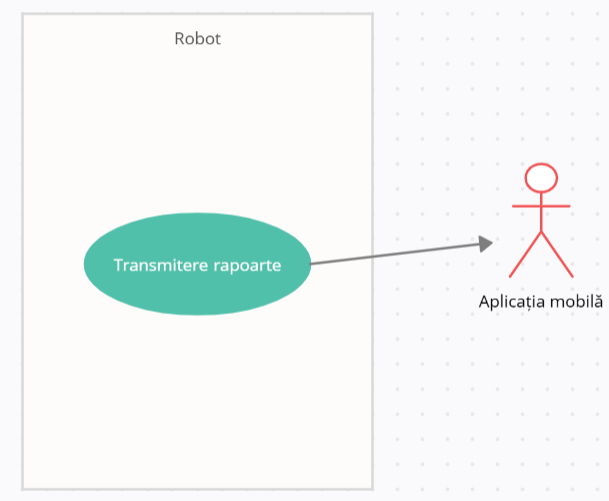
Utilizatorul aplicației web poate transmite robotului o comandă de transport automat în care se specifică medicamentul și patul pacientului destinatar. Se va scana RF-ID-ul medicamentului și se va compara cu medicamentul prescris, stocat in cloud. Când robotul va ajunge la patul pacientului în cauză, acesta va verifica RF-ID-ul patului, pentru a se asigura că transportul a ajuns la destinația corectă.

Datele procesate: RF-ID pat, RF-ID medicament

Răspunsul: Robotul preia comanda si efectuează transportul.

Comentarii: Pot exista prea multe cereri de transport în același timp.

**Pentru transmitere rapoarte:**



Actorii implicați: Aplicația mobilă

Pentru orice comandă robotul poate transmite un raport care sa conțină statusul comenzii sau alarmele apărute pe parcursul traseului. Spre exemplu, dacă în urma unei cereri de transport, un factor extern face imposibilă realizarea transportului ( un obiect blochează complet calea robotului ), se va trimite o notificare pe aplicația mobilă.

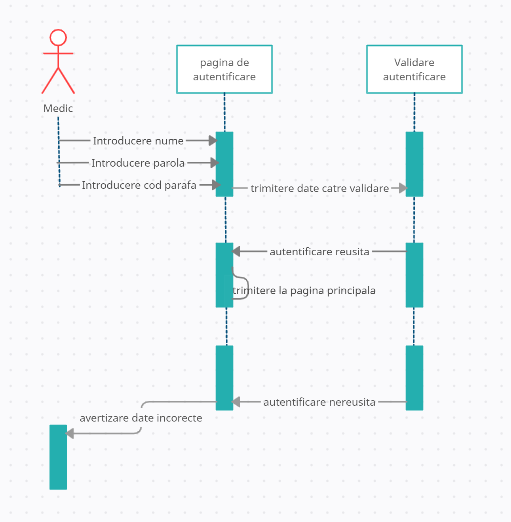
Datele procesate: statusul comenzii, alarme apărute

Răspunsul: Robotul va trimite notificări spre aplicația mobilă la cerere sau în cazul în care apar dificultăți pe traseu.

Comentarii: Aplicația mobilă poate să nu funcționeze corect și să nu afișeze notificările în timp util.

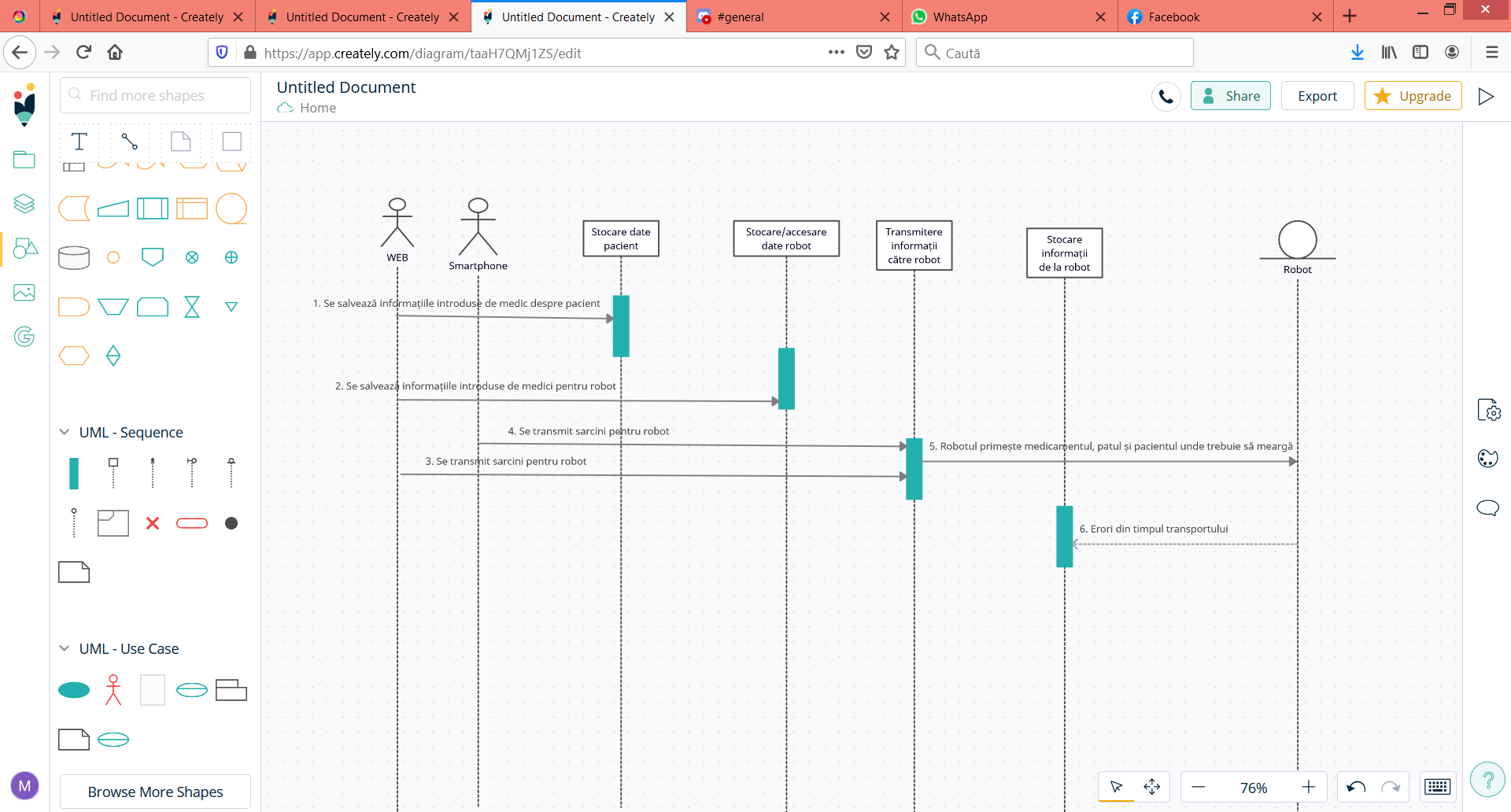
### Diagrame de secvență

**AplicațieWeb**



Figură 6

**Componenta Cloud**



Figură 7

**Modul Smartphone**

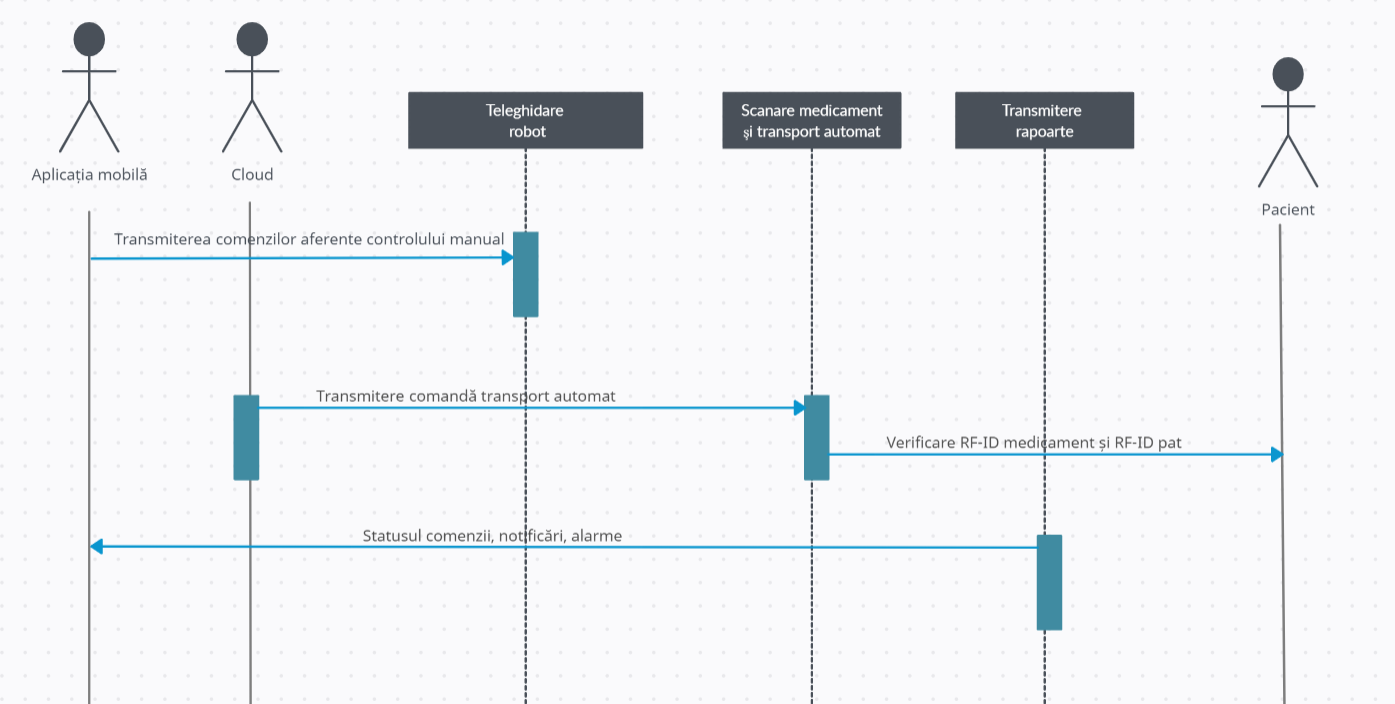
![A picture containing table

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENPUklOQQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzg5AACSkgACAAAAAzg5AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figură 8

În figura 8 este prezentată diagrama de secvență pentru modulul de aplicație mobilă, acesta detaliază în amănunt cazurile de utilizare.

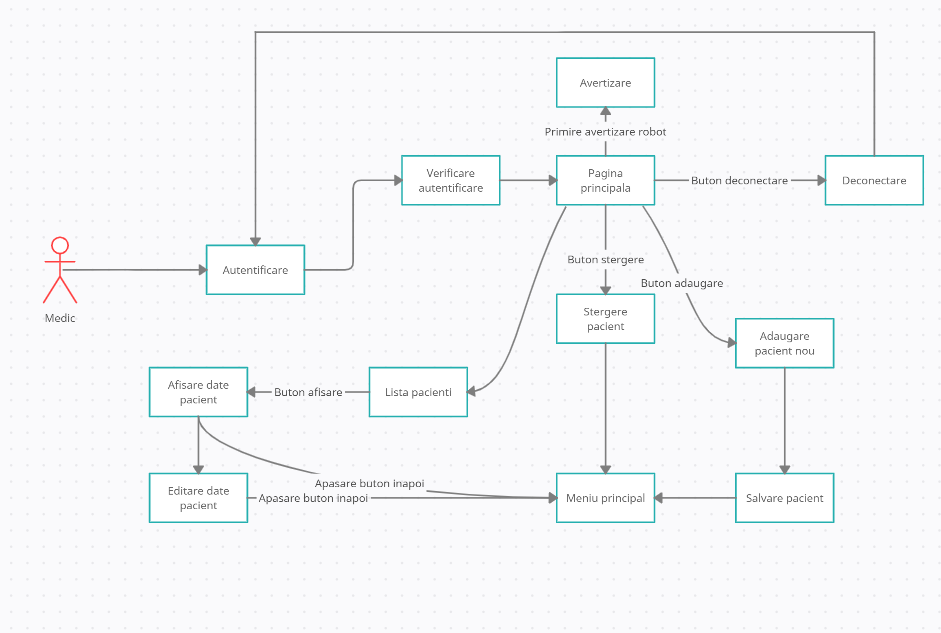
**Modul comandă robot**



Figură 9

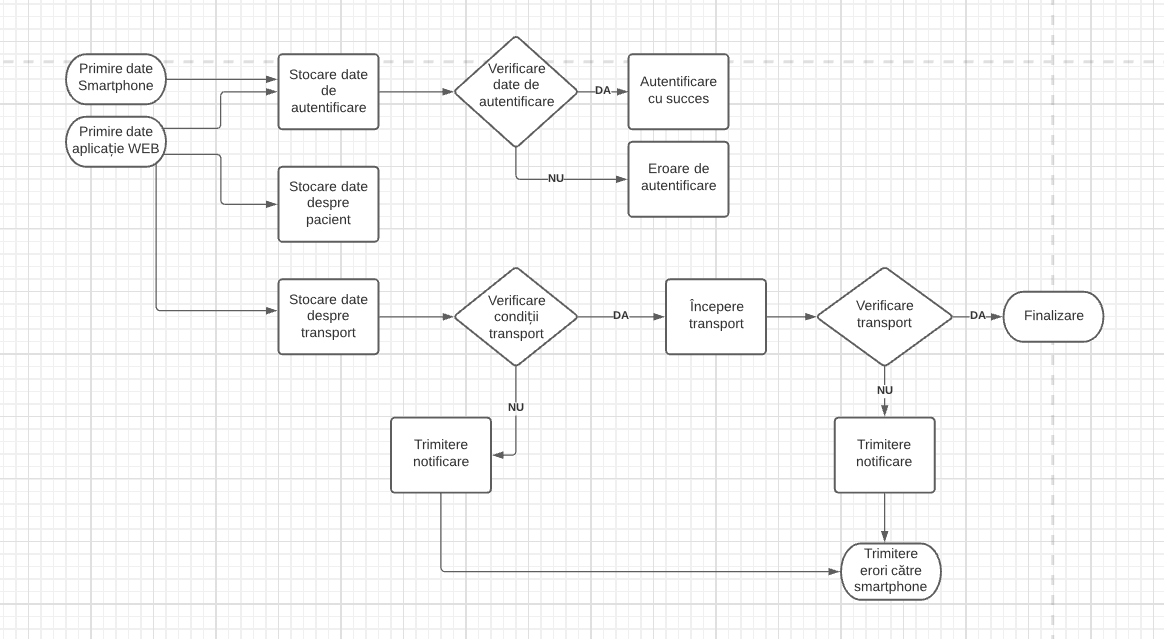
### Modele de stare

**Aplicație Web**



Figură 10

**Componenta Cloud**



Figură 11

**Modul Smartphone**

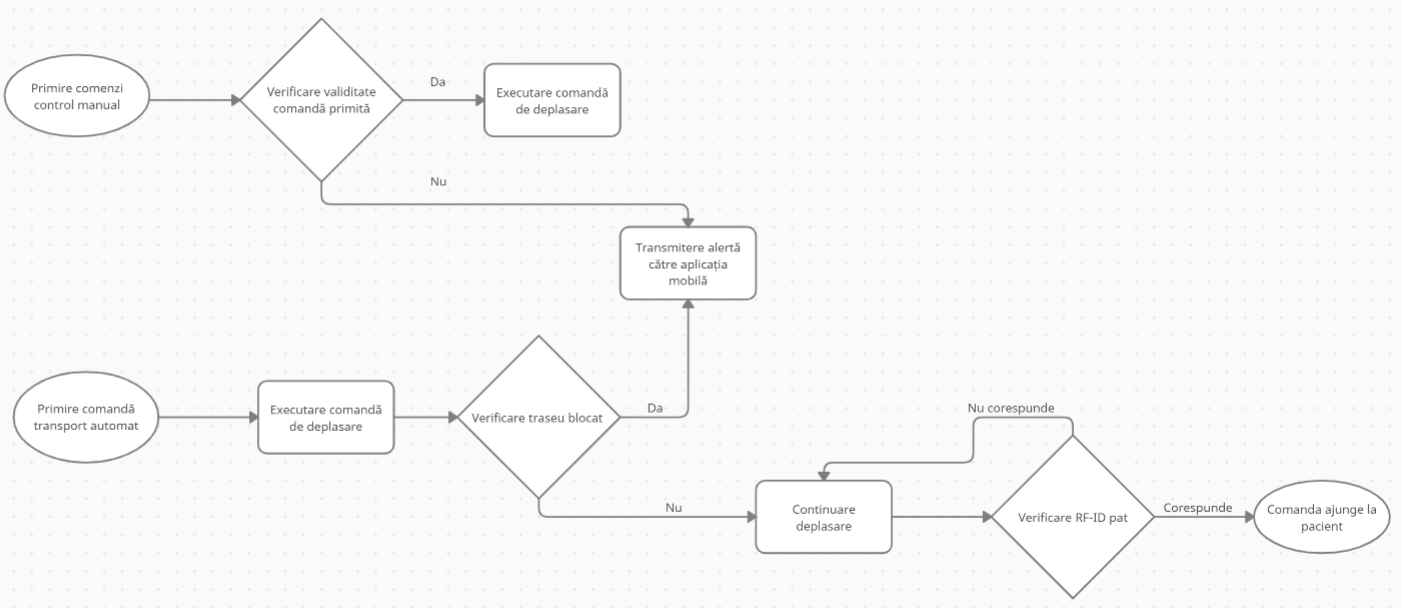
![Diagram

Description automatically 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Figură 12

În figura 12 este reprezentat modelul de stare evoluție a stării, bazată pe reprezentarea UML.

**Modul comandă robot**



Figură 13

### Interfețe cu alte sisteme

**Aplicație Web**

Modulul web primește de la cloud datele pacienților, istoricul de transporturi și trimite cereri de căutare, de modificare a datelor și de adăugare.

Trimite date către robot care conțin numărul patului unui pacient și medicamente.

Primesțe de la robot eventualele alarme.

**Componenta Cloud**

Componenta Cloud primește și trimite date de la, respectiv către Aplicația Web.

Preia rapoarte sau informații referitoare la erori de la robot.

Transmite informații legate de transportul curent și rapoarte către aplicația mobilă.

Transmite către robot sarcinile ce le are de îndeplinit.

**Modul Smartphone**

Diagram

Description automatically generated

Figură 14

În figura 14 se prezintă legaturile pe care le are modului aplicației mobile cu celelalte componente.

## Evoluția sistemului

Medicii, împreună cu asistentele, au acces la un robot care facilitează transportul de medicamente în incinta spitalului.

Pentru început, medicii vor introduce prin aplicația web, noii pacienți împreună cu diagnosticul aferent, având posibilitatea de a înregistra totodată și o prescpripție medicală ce va ajuta robotul să știe tipul de medicament de care va avea nevoie pacientul respectiv și ulterior să îl livreze la patul acestuia.

Asistentele spitalului au de asemenea acces la acest robot prin intermediul unei aplicații mobile, prin care îl pot teleghida și pot chiar să monitorizeze activitatea acestuia.

### A. Analiză SWOT

Diagram

Description automatically generated

Figură 15

## 10. Planificarea lucrărilor

![Table

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENPUklOQQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzAxAACSkgACAAAAAzAxAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figură 16

# 

# II. Anexe

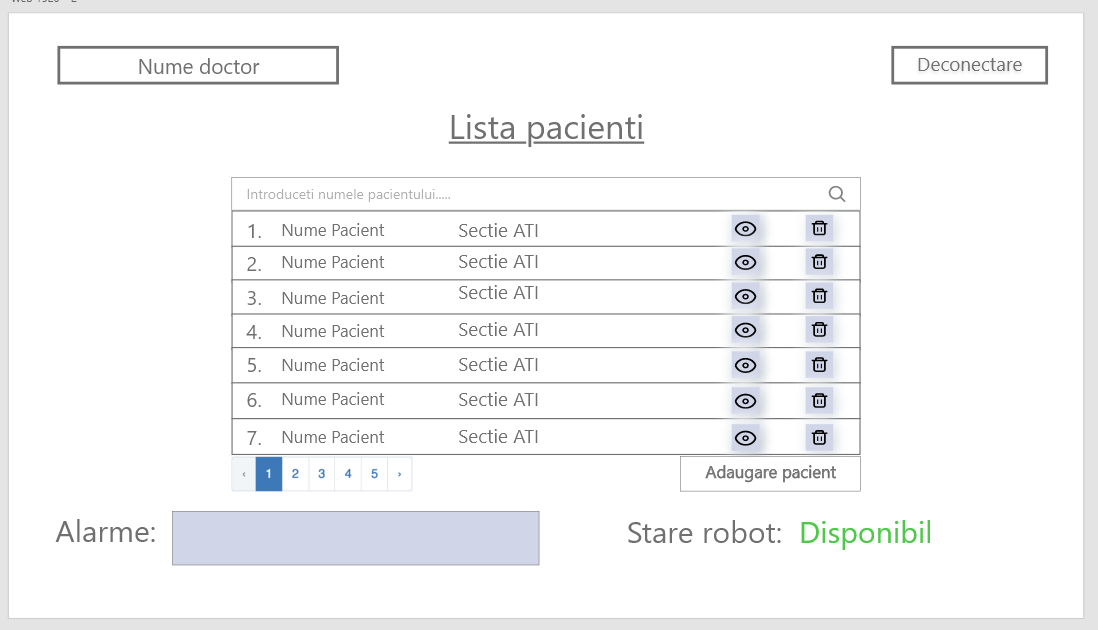
## Interfața cu utilizatorul

**Aplicație Web**

|  |
| --- |
|  |

Figură 17

Prin figura 17 se arată faptul că vor exista conturi prin care medicii se vor putea autentifica pe baza numelui, parolei și a unui cod parafă.



Figură 18

Figura 18 prezintă următoarele:

-Imediat după o autentificare reușită medicii vor putea să vadă o listă cu numele pacienților și secția la care sunt internați

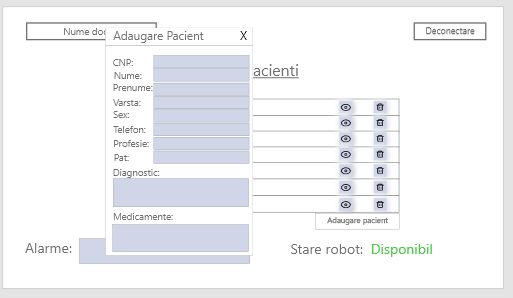
-Au posibilitatea să caute un pacient după nume

-Pot să vizualizeze datele fiecărui pacient

-Pot să șteargă orice pacient din baza de date

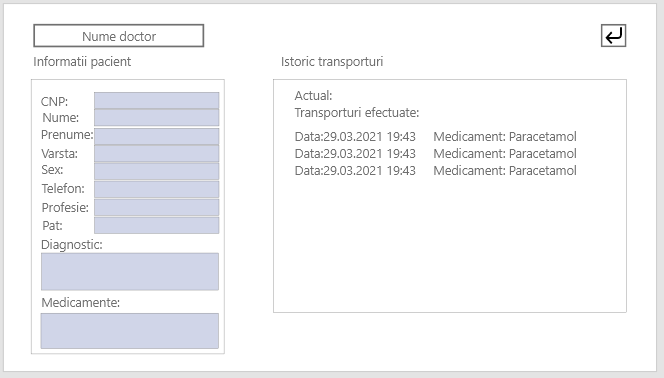
-Au posibilitatea de a vedea alarmele generate de robot cât și dacă acesta este disponibil sau nu

-Medicul se poate deconecta de la cont prin apasarea butonului de deconectare și va fi redirecționat imediat către pagina de autentificare



Figură 19

În figura 19 după apăsarea butonului de adaugare pacient se va permite adăugarea datelor necesare pentru înregistrarea unui pacient în baza de date.



Figură 20

În figura 20:

- Medicul după selectarea opțiunii de vizualizare a unui pacient va avea posibilitatea de a vedea toate datele acestuia

-Poate vizualiza toate transporturile de medicamente pe care acesta le-a primit de la robot

-Poate edita datele pacientului prin simpla selectare a oricărui câmp disponibil

**Aplicația mobilă**

Graphical user interface, application

Description automatically generated

Figură 21

În figura 21 se prezintă interfața de început pentru aplicația mobilă, prin care asistenta ori își face un cont nou, ori se autentifică, apoi este redirecționată în fereastra cu meniul principal.

Graphical user interface, application

Description automatically generated

Figură 22

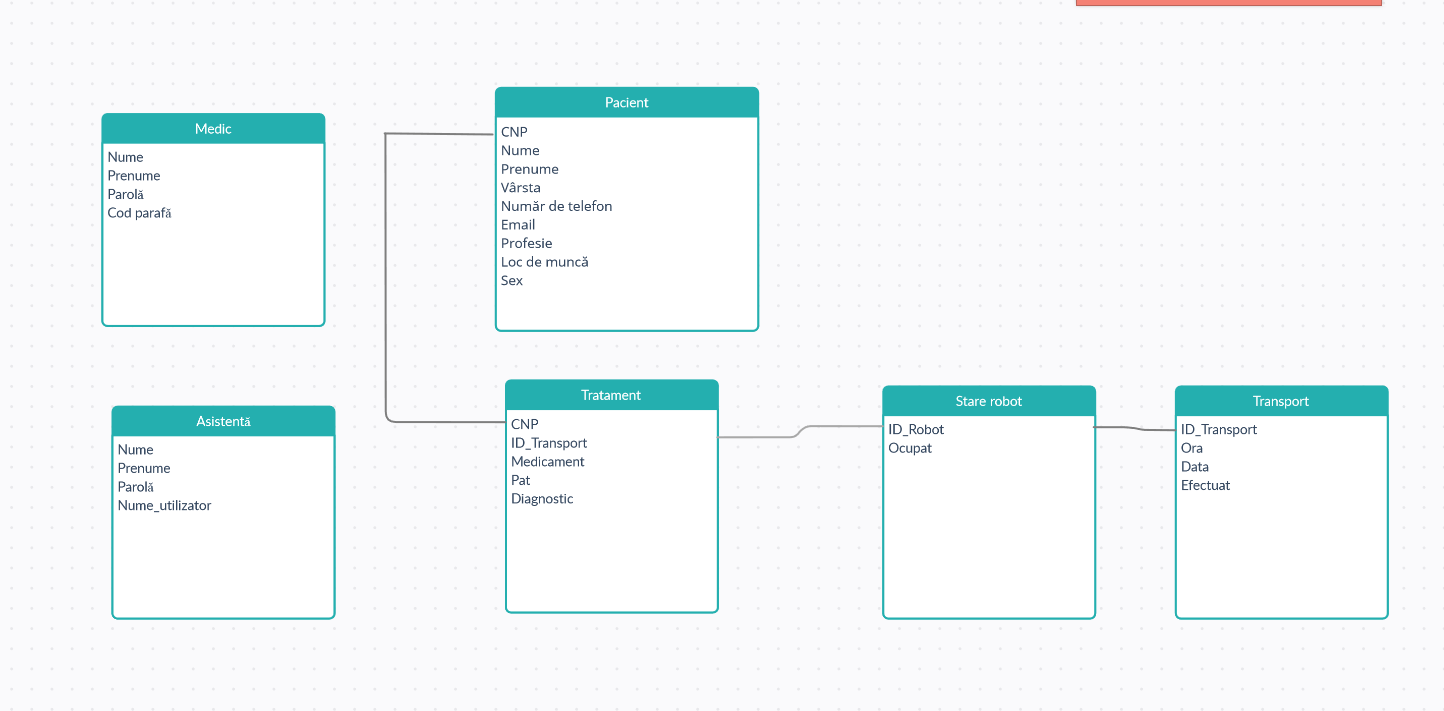
În figura 22 asistenta a ales din meniul principal butonul de inițiere transport, apoi de selectare mod control. După ce a ales modul manual, fereastra cu săgețile de control vor apărea.

Graphical user interface, application

Description automatically generated

Figură 23

## Structuri de baze de date şi fişiere



Figură 24

## Tipărirea la imprimantă

Pentru orice pacient dorit, se poate imprima un raport care sa contină data curentă, datele personale, diagnostic si medicamentație, alături de numele medicului.

Se generează informațiile pe baza datelor încărcate la momentul autentificării.

Se realizează conexiunea cu imprimanta căruia i se trimit paginile necesare imprimării și se realizează listarea.