**PROIECT :** Fast **Delivery Services**

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***PROIECTARE SOFTWARE***

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# Specificarea cerințelor (enunț problemă)

**Tema 1**

**Descrierea aplicației:**

Dezvoltați (analiză, proiectare, implementare) o aplicație desktop care poate fi utilizată de către o firmă de curierat rapid.

Aplicația va avea 3 tipuri de utilizatori: **poștaș, coordonator activitate și administrator**.

Utilizatorii de tip **poștaș** pot efectua următoarele operații după autentificare:

1. Vizualizarea listei coletelor de distribuit, inclusiv locațiile unde trebuie distribuite;
2. Vizualizarea traseului optim în funcție de lista coleltelor (se va modela prin utilizarea grafurilor);
3. Căutarea unui colet după număr.

Utilizatorii de tip **coordonator activitate** pot efectua următoarele operații după autentificare:

1. Toate operațiile permise utilizatorilor de tip poștaș;
2. Operații CRUD în ceea ce privește persistența coletelor;
3. Alocarea unui colet către un poștaș;
4. Salvare rapoarte / liste cu informații despre colete în mai multe formate: csv, xml, json.

Utilizatorii de tip **administrator** pot efectua următoarele operații după autentificare:

1. Operații CRUD pentru informațiile legate de utilizatorii de tip poștaș și coordonator activitate.

Constrângeri ale aplicației:

* Datele utilizate în aplicație vor fi socate într-un fișier binar;
* Utilizați șabloanele de proiectare creaționale Factory Method și Builder.

**Tema 2**

**Obiectiv:**

Obiectivul acestei teme este familiarizarea cu șablonul architectural Client/Server.

**Cerințe:**

Transformați aplicația desktop implementată la tema 1 într-o aplicație client-server. Mare parte din modelul logic (inclusiv persistența) va face parte din server, mai puțin partea care poate fi determinată din datele primite de la server (generare rapoarte, statistică, etc.).

1. În faza de analiză realizați diagrama cazurilor de utilizare.
2. În faza de proiectare realizați diagrama de clase corespunzătoare aplicației server și diagrama de clase corespunzătoare aplicației client.
3. În faza de implementare scrieți cod pentru îndeplinirea tuturor funcționalităților precizate de diagrama cazurilor de utilizare utilizând unul dintre următoarele limbaje de programare: C#, C++, Java, Python.
4. Finalizarea temei va consta în predarea unui director ce va cuprinde:
   * Un fișier word care cuprinde numele studentului, grupa, enunțul problemei și instrumentele utilizate.
   * Un fișier cu diagramele UML realizate;
   * Directorul cu aplicația implementată.

Constrângeri ale aplicației:

* Datele utilizate în aplicație vor fi socate într-o bază de date (MySQL, SQL Server, Oracle, etc.).
* Se cere utilizarea arhitecturii client/server, NU web client/server.

**Tema 3**

**Obiectiv:**

Obiectivul acestei teme este familiarizarea cu șablonul de proiectare comportamental **Observer**.

**Cerințe**:

Optimizați aplicația client/server implementată la tema 2 astfel încât să utilizați șablonul de proiectare comportamental Observer în dezvoltarea aplicației client. În plus, interfața grafică a aplicației client va fi disponibilă în cel puțin 3 limbi de circulație internațională (implicit limba română).

1. În faza de analiză realizați diagrama cazurilor de utilizare și diagramele de activități corespunzătoare tuturor cazurilor de utilizare.
2. În faza de proiectare realizați:
   * diagrama de clase corespunzătoare aplicației server;
   * diagrama de clase corespunzătoare aplicației client;
   * diagrame de secvență corespunzătoare tuturor cazurilor de utilizare.
3. În faza de implementare scrieți cod pentru îndeplinirea tuturor funcționalităților precizate de diagrama cazurilor de utilizare utilizând unul dintre următoarele limbaje de programare: C#, C++, Java, Python.
4. Finalizarea temei va consta în predarea unui director ce va cuprinde:
   * Un fișier word care cuprinde numele studentului, grupa, enunțul problemei, instrumentele utilizate și detalii despre modul în care a fost utilizat șablonul de proiectare **Observer**.
   * Un fișier cu diagramele UML realizate;
   * Directorul cu aplicația implementată.

**Observație:**

Pentru persistență se va utiliza o bază de date relațională (MySQL, SQL Server, Oracle, etc.). Se va utiliza baza de date doar în aplicațiile unde este necesară persistența.

# Instrumente utilizate

A close up of a logo

Description automatically generated**IDE**: Intellij Idea 2019

IntelliJ IDEA este un mediu de dezvoltare integrat (IDE) scris în Java pentru dezvoltarea de software de calculator. Este dezvoltat de JetBrains (cunoscut anterior ca IntelliJ) și este disponibil ca o ediție comunitară autorizată Apache 2, și într-o ediție comercială proprie. Ambele pot fi utilizate pentru dezvoltarea comercială.

**Database**: My SQL Server (SQL Server Workbench)

A picture containing drawing

Description automatically generatedMySQL este un sistem de gestiune a bazelor de date relaționale, produs de compania suedeza MySQL AB și distribuit sub Licența Publică Generală GNU. Este cel mai popular SGBD open-source la ora actuală, fiind o componentă cheie a stivei LAMP (Linux, Apache, MySQL, PHP).

**Librarii folosite**: org.json & java parser

**Diagrame**: [www.draw.io](http://www.draw.io)

A close up of a logo

Description automatically generatedDraw.io este o unealtă software gratuită pentru realizarea graficelor, diagramelor de procese, diagramelor UML și diagramelor de rețea.

**Versiune de limbaj Java: 7**

**A picture containing drawing

Description automatically generated**J ava 7 aduce noi funcționalități, precum suportul pentru operatorii de tip diamant, utilizarea string-urilor în structura switch, managementul automatic al resurselor, etc.

# Etapa de analiză

## 3.1 Diagrama cazurilor de utilizare

Diagrama cazurilor de utilizare are un scop simplu: demonstrarea utilizărilor aplicației pentru toate tipurile de utilizatori. Așadar, următoarea diagramă este creată pentru a exemplifica fiecare operațiune pe care o poate realiza un utlizator în cadrul aplicției **Fast** Delivery Services.

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Fig 1. Diagrama cazurilor de utilizare

Vom începe să vorbim pe rând despre toate operațiile pe care le poate realiza fiecare timp de utilizator:

1. Utilizatorul de tip **Poștaș**

Utilizatorul de tip Poștaș (Mailer) poate realiza următoarele operații:

* + Autentificare pe baza unui nume de utilizator si a unei parole aferente
  + Alegerea limbii aplicației dintr-o casetă de tip Combo Box
  + Vizualizarea coletelor de distribuit și a locațiilor coletelor, precum și vizualizarea traseului (doar după autentificare)
  + Căutarea unui colet după numărul aferent coletului (din nou, doar după autentificare)

1. Utilizatorul de tip **Coordonator de activitate**

Utilizatorul de tip Coordonator de activitate (Activity Coordinator) poate realiza următoarele operații:

* + Autentificare pe baza unui nume de utilizator si a unei parole aferente
  + Alegerea limbii aplicației dintr-o casetă de tip Combo Box
  + Vizualizarea coletelor de distribuit și a locațiilor coletelor (doar după autentificare)
  + Căutarea unui colet după numărul aferent coletului (doar după autentificare)
  + Operații de create, read, update și delete a coletelor (doar după autentificare)
  + Alocarea unui colet către un poștaș (doar după autentificare)
  + Salvarea de rapoarte cu informații despre coletele distribuite în cadrul serviciilor de curierat rapid (doar după autentificare)

1. Utilizatorul de tip **Administrator**

Utilizatorul de tip Administrator poate realiza următoarele operații:

* + Autentificare pe baza unui nume de utilizator si a unei parole aferente
  + Alegerea limbii aplicației dintr-o casetă de tip Combo Box
  + Operații de create, read, update și delete a celorlalti utilizatori de tip Coordonator de activitate și Poștaș (doar după autentificare)

## Diagrame de activități

Diagrama de activități are scopul de a arăta operațiile ce au loc în cadrul fiecărei activități a fiecărui tip de utilizator. Așadar, în imaginea prezentată se pot vedea activitățile fiecăruia.

* Cu roșu sunt marcate activitățile pentru utilizatorul de tip Poștaș
* Cu verde sunt marcate activitățile pentru utilizatorul de tip Coordonator de activitate
* Cu albastru sunt marcate activitățile pentru utilizatorul de tip Administrator.
* A close up of text on a black background

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Fig 2. Diagrama de activități

În cele ce urmează, se vor discuta pe rând activitățile pentru fiecare tip de utilizator, astfel:

1. Diagrama de activități pentru utilizatorul de tip Poștaș:

A close up of a map

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Fig 2.1. Diagrama de activități pentru utilizatorul Poștaș

* Activitatea de **autentificare** se realizează prin interacțiunea cu ecranul de autentificare. Urmează introducerea datelor de autentificare si apăsarea butonului Log In. Daca utilizatorul cu datele de autentificare introduse există, îi va fi arătată interfața aferentă tipului său, altfel, va fi readus la ecranul principal de autentificare.
* Pentru **vizualizarea coletelor**, utilizatorul va apăsa un buton specific, iar aplicația va verifica existența coletelor aferente poștașului respectiv. Dacă acesta are colete ce trebuie distribuite, se vor afișa într-un tabel, altfel se va afișa un tabel fără informații.
* Pentru **vizualizarea rutei optimale**, poștașul va apăsa butonul specific din cadrul interfeței grafice, iar sistemul va verifica întâi existența pachetelor aferente poștașului. Dacă există pachete aferente, se va afișa ruta optimală, altfel se va afișa o rută goală.
* Pentru **căutarea unui pachet**, poștașul va apăsa un buton numit Căutare Colet și va introduce numărul de identificare al coletului respectiv. Dacă coletul căutat există, îi vor fi afișate toate detaliile despre acel colet în aceași pagină din interfața grafică, altfel, daca coletul nu există, nu se va afișa nicio informație.

1. Diagrama de activități pentru utilizatorul de tip Coordonator de activitate:

A screenshot of a cell phone

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Fig 2.2. Diagrama de activități pentru utilizatorul Coordonator de activitate

* Activitatea de **autentificare** se realizează prin interacțiunea cu ecranul de autentificare. Urmează introducerea datelor de autentificare si apăsarea butonului Log In. Daca utilizatorul cu datele de autentificare introduse există, îi va fi arătată interfața aferentă tipului său, altfel, va fi readus la ecranul principal de autentificare.
* Pentru **căutarea unui pachet**, coordonatorul va apăsa un buton numit Căutare Colet și va introduce numărul de identificare al coletului respectiv. Dacă coletul căutat există, îi vor fi afișate toate detaliile despre acel colet în aceași pagină din interfața grafică, altfel, daca coletul nu există, nu se va afișa nicio informație.
* Pentru **vizualizarea coletelor**, utilizatorul va apăsa un buton specific, iar aplicația va verifica existența coletelor. Dacă există colete ce trebuie distribuite, se vor afișa într-un tabel, altfel se va afișa un tabel fără informații.
* Pentru **crearea unui colet**, coordonatorul va introduce date despre acel colet și va apăsa butonul de adăugare.
* Pentru **modificarea unui colet**, coordonatorul va introduce întâi numărul coletului pe care vrea să îl modifice. Dacă acel colet există, coletul va fi modificat cu noile date introduse de el, altfel nu se va modifica coletul pentru că acesta nu există.
* Pentru **ștergerea unui colet**, coordonatorul va introduce numărul aferent coletului de șters și va apăsa butonul de ștergere, iar dacă acesta există, va fi șters. Altfel nu se va șterge niciun colet.
* Pentru **atribuirea unui colet către unui poștaș**, coordonatorul ca introduce numărul pachetului, numele poștașului, iar dacă coletul și poștașul există, asignarea va avea loc. Altfel, nu se vor produce asignări.

1. Diagrama de activități pentru utilizatorul de tip Administrator:

![A close up of a map

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4R9iRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA1OjIzIDE3OjMwOjQ5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4MwAAkpIAAgAAAAM4MwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Fig 2.3. Diagrama de activități pentru utilizatorul Administrator

* Activitatea de **autentificare** se realizează prin interacțiunea cu ecranul de autentificare. Urmează introducerea datelor de autentificare si apăsarea butonului Log In. Daca utilizatorul cu datele de autentificare introduse există, îi va fi arătată interfața aferentă tipului său, altfel, va fi readus la ecranul principal de autentificare.
* Pentru **crearea unui utilizator nou**, administratorul va introduce date pentru utilizatorul respectiv în cadrul ferestrei de coordonatori de activitate sau în cadrul ferestrei de poștași. După, va apăsa butonul Creare și datele vor fi adăugate în baza de date.
* Pentru **modificarea unui utilizator**, administratorul va introduce numele pentru utilizatorul dorit precum și noile date aferente. După, va apăsa butonul Editare, iar dacă utilizatorul cu numele respectiv există, datele îi vor fi actualizate. Altfel nu se vor realiza modificări.
* Pentru **ștergerea unui utilizator**, administratorul va introduce numele acelui utilizator și va apăsa butonul intitulat Ștergere. Dacă utilizatorul cu numele respectiv există, acesta va fi șters.
* Pentru **vizualizarea utilizatorilor**, administratorului îi vor fi prezentate mereu 2 butoane care corespund poștașilor și coordonatorilor.

# Etapa de proiectare

## Diagrame de clase

În inginerie software, o diagramă de clasă în limbajul unificat de modelare (UML) este un tip de diagramă de structură statică care descrie structura unui sistem, arătând clasele sistemului, atributele, operațiile (sau metodele) și relațiile dintre obiecte.

Diagrama de clase este blocul principal de modelare orientat pe obiecte. Este utilizat pentru modelarea conceptuală generală a structurii aplicației și pentru modelarea detaliată a traducerii modelelor în cod de programare. Diagramele de clasă pot fi de asemenea utilizate pentru modelarea datelor. Clasele dintr-o diagramă de clase reprezintă atât elementele principale, interacțiunile din aplicație, cât și clasele care trebuie programate.

În diagrama, clasele sunt reprezentate cu cutii care conțin trei compartimente:

* + Compartimentul de sus conține numele clasei. Este tipărită cu caractere aldine și centrată, iar prima literă este scrisă cu majuscule.
  + Compartimentul din mijloc conține atributele clasei. Sunt aliniate la stânga, iar prima literă este cu litere mici.
  + Compartimentul de jos conține operațiunile pe care le poate executa clasa. De asemenea, sunt aliniate la stânga și prima literă este cu minuscule.

**Diagramele de clase** aferentă aplicației Fast Delivery Services:

1. Diagrama de clase pentru **Server**

A close up of a map

Description automatically generated

Fig 3.1. Diagrama de clase pentru Server

În cele ce urmează, se va realiza o scurtă desciere a fiecărei clase și interfețe din aplicația Server:

* + Clasa **User**  este o clasă ce are ca scop generalizarea utilizatorilor din cadrul aplicației. Atât poștașul, cât și coordonatorul, cât și administratorul au nevoie de un nume de autentificare și de o parolă pentru a realiza operațiuni. Atributele respective sunt private pentru a încuraja incapsularea. Ca și metode întâlnim getters și setters pentru atributele descrise anterior.
  + Clasa **ActivityCoordinator** are ca scop păstrarea obiectelor de tip Coordonator de activitate. Ca și atribute întâlnim name, email, CNP care sunt datele de identificare. Ca și metode întâlnim metode de get si set pentru atributele clasei, precum si metoda allocateParcelToMailer(ParcelStandard ps, Mailer m) de tip void care alocă unui poștaș un colet. Remarcăm că această clasă moștenește clasa **User**, deci prin urmare, un coordonator este un utilizator. De asemenea, această clasă extinde interfața standard Java.io.Serializable ceea ce a fost necesar pentru serializarea datelor în tema 2.
  + Clasa **Mailer** are ca scop păstrarea obiectelor de tip poștaș. Ca și atribute întâlnim name, email, CNP care sunt datele de identificare private. Ca și metode întâlnim metode de get si set pentru atributele clasei, precum si metodele viewAllParcels (care solicita vizualizarea pachetelor aferente postasului), viewAllLocations (care solicită vizualizarea locațiilor) și searchByParcelNumber (care caută un pachet după numărul de identificare). Remarcăm că această clasă moștenește clasa **User**, deci prin urmare, un coordonator este un utilizator. De asemenea, această clasă extinde interfața standard Java.io.Serializable ceea ce a fost necesar pentru serializarea datelor în tema 2. Mailer implementează și interfata MailerPlanI care reprezintă promisiunile implementării metodelor precedent menționate.
  + Clasa **Administrator** are ca scop păstrarea obiectelor de tip Administrator. Ca și atribute întâlnim name, email, CNP care sunt datele de identificare. Ca și metode întâlnim metode de get si set pentru atributele clasei, precum si metodele createMailer (care creeaza un utilizator de tip poștaș), searchMailer (care caută un poștaș) și deleteMailer (care șterge un poștaș). Remarcăm că această clasă moștenește clasa **User**, deci prin urmare, un coordonator este un utilizator. De asemenea, această clasă extinde interfața standard Java.io.Serializable ceea ce a fost necesar pentru serializarea datelor în tema 2.
  + Interfața **MailerPlanI** reprezintă promisiunile implementării metodelor aferente, pentru utilizatorul de tip poștaș. Ca și prototipuri de funții întâlnim viewAllParcels, viewAllLocations și searchByParcelNumber.
  + Clasa **ActivityCoordinatorDAO** are ca scop accesarea obiectelor de tip Coordonator de activitate din baza de date (data access object). Ca și atribute întâlnim un Logger folosit pentru jurnalizare, precum și string-uri de tip static pentru căutarea, inserarea, ștergerea și editarea coordonatorilor de activitate. Ca și metode întâlnim findByName care inițiază o conexiune către baza de date și face o solicitare pentru returnarea datelor unui anumit utilizator, metoda viewAllForTablePrint care solicită toți utilizatorii de acest tip din baza de date în vederea printării unui tabel, metoda insertActivityCoordinator care inserează un obiect de acest tip în baza de date, metoda edit care actualizează informațiile unui utilizator de acest tip și metoda delete care șterge utilizatorul în funcție de nume.
  + Clasa **MailerDAO** are ca scop accesarea obiectelor de tip Mailer din baza de date (data access object). Ca și atribute întâlnim un Logger folosit pentru jurnalizare, precum și string-uri de tip static pentru căutarea, inserarea, ștergerea și editarea poștașilor Ca și metode întâlnim findByName care inițiază o conexiune către baza de date și face o solicitare pentru returnarea datelor unui anumit utilizator, metoda viewAllForTablePrint care solicită toți utilizatorii de acest tip din baza de date în vederea printării unui tabel, metoda insert care inserează un obiect de acest tip în baza de date, metoda edit care actualizează informațiile unui utilizator de acest tip și metoda delete care șterge utilizatorul în funcție de nume.
  + Clasa **ParcelDAO** are ca scop accesarea obiectelor de tip Colet din baza de date (data access object). Ca și atribute întâlnim un Logger folosit pentru jurnalizare, precum și string-uri de tip static pentru căutarea, inserarea, asignarea, ștergerea și editarea coletelor. Ca și metode întâlnim findByName care inițiază o conexiune către baza de date și face o solicitare pentru returnarea datelor unui anumit utilizator, metoda viewAllForTablePrint care solicită toți utilizatorii de acest tip din baza de date în vederea printării unui tabel, metoda insert care inserează un obiect de acest tip în baza de date, metoda assignToMailer care asignează un colet unui anumit poștaș, metoda edit care actualizează informațiile unui utilizator de acest tip și metoda delete care șterge utilizatorul în funcție de nume.
  + Clasa **AdministratorDAO** are ca scop accesarea obiectelor de tip Administrator din baza de date (data access object). Ca și atribute întâlnim un Logger folosit pentru jurnalizare, precum și string-uri de tip static pentru căutarea administratorilor în vederea autentificării. Ca și metode întâlnim findByName care inițiază o conexiune către baza de date și face o solicitare pentru returnarea datelor unui anumit utilizator.
  + Clasa **ActivityCoordinatorDataParser** are ca scop legarea datelor din aplicația Java cu baza de date SQL. Se realizează parsări ale obiectelor. Ca și atribute avem id, username, passowrd, fullname, email, CNP care sunt datele de identificare pentru orice utilizator de acest tip. Ca și metodă, avem un constructor care inițializează un obiect de acest tip cu toate atributele specifice.
  + Clasa **MailerData** are ca scop legarea datelor din aplicația Java cu baza de date SQL. Se realizează parsări ale obiectelor. Ca și atribute avem id, username, passowrd, fullname, email, CNP care sunt datele de identificare pentru orice utilizator de acest tip. Ca și metodă, avem un constructor care inițializează un obiect de acest tip cu toate atributele specifice.
  + Clasa **ParcelDataParser** are ca scop legarea datelor din aplicația Java cu baza de date SQL. Se realizează parsări ale obiectelor. Ca și atribute avem id, username, passowrd, fullname, email, CNP care sunt datele de identificare pentru orice utilizator de acest tip. Ca și metodă, avem un constructor care inițializează un obiect de acest tip cu toate atributele specifice.
  + Clasa **ParcelStandard** este esențială acestei aplicații, iar împreună cu clasele învecinate realizează șabloanele de proiectare cerute (anume Builder și Factory). Atributele prezente sunt private și se numesc parcelNumber, adress (care este adresa destinației), receiverName (care este numele destinatarului), weight (care este greutatea pachetului). Printre metode enumerăm getters și setters pentru câmpuri, o metodă petru comparare și o metodă toString în vederea printării.
  + Clasa **ParcelEnvelope** extinde clasa ParcelStandard și adaugă un atribut nou numit thickness ce simbolizează grosimea pachetului în centimetri.
  + Clasa **ParcelFragile** extinde clasa ParcelStandard și adaugă un atribut nou numit fragilityGrade ce este un număr întreg care reprezintă gradul de fragilitate al pachetului.
  + Clasa **Order** are ca rol unificarea unor pachete într-o comandă și are ca atribute o listă de colete, iar ca metodă adăugarea unui colet în acea listă.
  + Clasa **OrderBuilder** are o singură metodă care creează o comandă nouă ce poate conține mai multe colete.
  + Clasa **ParcelFactory** are o singură metodă makeParcel care returnează un pachet de tipul solicitat între pachet standard, fragil sau de tip plic.
  + Clasa **Node** este esențială în modelarea traseului. Este practic o destinație. Ca și atribute întâlnim adress, distances (un vector de distanță față de alte noduri) și neighbors care sunt celelalte noduri cu care se învecinează. Printre metode enumerăm updateEdges, setNodeDistances, getDistanceFromSpecificNode și toString.
  + Clasa **Edge** are ca atribute nodul de start și nodul de sfârșit, precum și distanța dintre cele 2 noduri.
  + Clasa **NodeNetwork** are ca atribut unic static o listă de noduri care împreună creează rețeaua dorită.
  + Clasa **Server**  are ca și atribute o rețea de noduri statică și un socket. Ca și metodă întâlnim createNetwork care realizează topologia inițială de noduri

1. Diagrama de clase pentru **Client**

A close up of a map

Description automatically generated

Fig 3.2. Diagrama de clase pentru Client

În cele ce urmează, se va realiza o scurtă desciere a fiecărei clase și interfețe din aplicația Client:

* + Clasa **Client**  este o clasă ce are ca scop comunicarea cu serverul. Are ca și atribut un socket. Ca și metode enumerăm logInMailer, logInActivityCoordinator, requestParcelsForMailer, requestAllParcels, findParcelByName, insertParcel, editParcel, deleteParcel, insertParcel, requestAssignToMailer, viewParcelsForMailerAsParcels, requestAllMailers, requestAllActivityCoordinators, requestAllActivityCoordinators, insertMailer, insertActivityCoordinator, deleteMailer, deleteActivityCoordinator, editMailer, editActivityCoordinator care toate au ca și argument un String ce reprezintă adresa serverului și trimit de fapt o solicitare sau/și primesc un răspuns de la server.
  + Clasa **View**  este clasa interfeței grafice utilizator și are ca atribute toate butoanele și field-urile aferente.
  + Clasa **Controller** realizează controlul pentru aplicație și unifică interacțiunea dintre View si Model. Ca și metode enumerăm sortAscending care sorteaza coletele unui poștaș, aStar care realizeaza algoritmul A\* pe rețeaua definită cu un nod de start și unul de sfârșit, searchBestTrip care generează cea mai bună rută pentru coletele unui poștaș, saveReports care salvează rapoarte în diferite formate în funcție de parametrul dat, metoda retrieveColumnTable si metoda retrieveObjectData care sunt folosite în cadrul aplicării Java Reflections.
  + Clasa **LogInMemory** are strict rolul de a reține ce tip de utilizator este autentificat.
  + Clasa **ApplicationLanguage** este folosită pentru selectarea limbii aplicației. Are ca și parametru un vector de obiecte de tip Observer numit dynamicComponents care sunt componentele din interfața grafică ce trebuie acutalizate în momentul schimbării limbii, atributul language de tip String care reține limba aleasă precum și atributul applicationLanguageData care este un vector ce conține date din fișierul pentru limbă. Ca și metode avem readFromFile care citește un fișier si actualizează parametrul application Language Data și setLanguage setter pentru limbă. Această clasă implementează interfața subiect din șablonul de design Observer.
  + Clasele **DeliveryJButton, DeliveryJLabel, DeliveryJTxtField** fiecare extind clasa lor de bază și implementează interfața Observer. Acest lucru face posibilă integrarea în șablon.

## Diagrame de secvență

Pentru modelarea dinamicii sistemului, UML furnizează două tipuri de diagrame, și anume, diagramele de interacțiune (diagrama de secvență și diagrama de colaborare) și diagramele de comportament (diagrama de stare și diagrama de comportament). Principala menire a acestor diagrame este de a arăta cum realizează sistemul un caz de utilizare sau un scenariu particular dintr-un caz de utilizare. Pentru fiecare caz de utilizare se pot realiza mai multe scenarii (din descrierea cazului de utilizare). Pentru fiecare astfel de scenariu se pot întocmi o diagramă de secvență.

1. Diagrama de secvență pentru poștaș

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TkoRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA1OjIzIDE5OjQwOjI2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0PC94bXA6Q3JlYXRvclRvb2w+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMDUtMjNUMTk6Mzk6MzcuNzA3PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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Fig 4.1. Diagrama de secvență pentru utilizatorul Poștaș

Pentru vizualizarea pachetelor si locațiilor, întâi se va trimite o solicitare din interfața grafică utilizator. După, se va apela metoda viewAllParcelsForSpecificMailer(Mailer). Aceasta metoda va fi apelata în controller. Această solicitare se duce mai departe în model de unde va fi apelată metoda viewAllParcelsForMailer(Mailer), iar aceste date vor fi trimise mai departe în interfața grafică utilizator de unde utilizator le va putea vedea.

Pentru vizualizarea rutei optimale, poștașul va apăsa butonul aferent și se va apela metoda viewOptimalRoute(Mailer) din controller. După, informațiile vor fi extrase din baza de date prin intermediul metodei viewAllParcelsForMailerAsObjects(Mailer) aflată în Model. Datele se vor duce în interfața grafică utilizator.

Pentru vizualizarea unui anume colet, se va apela metoda searchParcel(int parcelNo) din controller, de unde se vor solica mai departe datele din baza de date prin intermediul metodei searchParcelById(int id). Datele vor trece prin controller și vor ajunge la interfața grafică utilizator de unde pot fi vizualizate în casete aferente.

Pentru selectarea limbii aplicației, utilizatorul va selecta limba dintr-un combobox si se va autentifica. De îndată ce este apăsat butonul de autentificare, o solicitare se va duce către controller prin metoda SetLanguage(String language). Datele pentru limbă vor fi citite din fișier de către Model și vor fi trimise către controller de unde se vor actualiza componentele dinamice.

1. Diagrama de secvență pentru Coordonator de activitate

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TPmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA1OjIzIDE5OjQwOjU1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDowNToyMyAxOTozOTozNwAyMDIwOjA1OjIzIDE5OjM5OjM3AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAIjoAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAADAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9/ooAKKACigAooAKKACigAooAKKACigAooAKKACigArM1C/SCbYbsRYQ8KyZ38YBDdM547epHFAF+CQTQJIHjfI5aNsrnvg/WpKACigDJFxcEA+e3P8Asr/hR9ouP+fh/wDvlf8ACujkj2MeZ9w+0XH/AD8P/wB8r/hR9ouP+fh/++V/wo5I9g5n3L1k7yWwaRizbmGSB6n0qxWEtzVbFTU5pILFnico+9ACAD1YA9fY1l/bLz/n6f8A75X/AArOTaZ1UYRlG7QfbLz/AJ+n/wC+V/wo+2Xn/P0//fK/4VHMzb2VPt+Yya/vUgkYXT5VSR8i/wCFdFVwbe5hXhGNrIKZMSsLlTggcGqlomYLcrb5f+erfkP8KN8v/PVvyH+FcPtanc25Y9g3yf8APVvyH+FG+XH+tb8h/hR7Wp3Dlj2LlVb25SBUVgWJIchcZVVI3MfYcfnXeYFoEEZHINFABRQBzNxZz3DxSRXssAXblUAIYA8jn1HHtTZbG5cQ7dQlVoycttHz/UdP0rqOcYdPvPsyINVn81UKmUouWODzjp3/AEpF028Xpqs/IGcop5zknn1HHp7UWHc6Kw/49B/vN/6EatVzS3ZtHYoax/yDW/66R/8Aoa1k1lPc7cP8JmDTLkIqf2lNtVlPTk4OTyTnn/PHFSQWNzFdiZ9Rmkj53QlRtJwAPcYx61JtYt3H/HtL/uH+VdTVQObEdAqOf/UP9KqXws51uVqoXdhcXF0Job+aAbQuxRkZGecHj+L07D0rz0dBJZWk9u8zTXklxvxtVlACYHOO/J55NWz0oYEP9tQ+esX2a5y2edg67to4znngg4xg9ahh1q0wbnyLpWmC5DJlh1G3j05z2yfevSOYbDrtpCjxR2t7tiBbHlfU4GT7YHbkehxe0/Uo9RjLRwzRbQpIlXB57fUUAXaKAKf9nR9pZP0/wo/s9P8AnrL+n+Fae0ZHIg/s9P8AnrL+n+FH9np/z1l/T/Cj2jDkRYhhEEQjUkgEnJ68nNSVDd2WtCG5t0uoDE5YKSDlevBBH8qq/wBkRf8APab/AMd/wqHFM0hVcFZB/ZEX/Pab/wAd/wAKP7Ii/wCe03/jv+FLkRft5DW0aF0ZTNNgjB5X/CtKqSsZzqOe4U11DoVOcEY4oaurEEX2Yf33/T/Cj7MP+ej/AKf4Vj9XiX7Rh9mH/PR/0/wo+zD++/6f4UfV4h7Rk9FbkDJJY4gDJIiAnA3NjNJJcQwlBLNGnmNsTcwG5vQep9qAH7lBALDngc9aR5EjGXdVHqTigAaRFxudRk4GT1NOzQAUUAFFABRQAUUAFFABRQAUUAFFABWZrBVYVdl3BQzYx6CplsKWxHeXltcQwpcaddTRyMNo8sEAklcnn8fxHeqLNpVrbpAmh3PltHvCCIfL95e7cNjPTnBz61QxLSPSZbgImh3cckRIQumMdOQd3Gdo9P51LDcaezuY9IvFeVnlc7OrbTnJ3Y5HTscjHsAQtHpP2WKQ6Le7HVwilTlRwT/F8uSPbOM+9XdPe0dbs2unXFsWiG9pE2g8cDr15P8AnFNbgT2Mb/Z7hLdliPnDnbkAYXPH0zVdHv2tWZtZszIpOGRFCnhsZyTjt+Rpy3FHYa01/wCYoXVrHAGGGVyzAAtjjj+LjnGAfpIbqZ3lWPVrEMzKYxkEqp3ds9+PyNSMjiur1l2DVtPlkAAcqw+RuD078Z9OnbOQRy37uzf2vZGMkMApU7U57456jn3/ADAJLtJnsU+0yRToxUgqBgnByenTpWnaf8ecP/XNf5VPU0f8NE1FUZhRQAVDdAGAgjIJHB+oqJ/CxrcfEAIlAGMCn04/Cge4Vn6p92P8f6US2IlsSGPUs8Xdrjtm2b/45We+pXccsqPPEPKIBb7GxBJYADiTr8w49CD3FUUQL4gkaMyCYMoCH/jxcZDAEYzJzwc4HPB9Ksf2xKlw8MjFWQnraMAQG25B39CenrQBes55r20juY5U8uRdy7oCpx9N1MuIdQN0swvIhZrBIssHkcuxxtYNnjGDxznPtTW4BpzhVuMhv9b2Un+FaJNO06WHyZLXdGW3bSjdcEfoDgenGOgpy+IUdjNnsJIbgrZafb+QX3EkOG5xk8Hry3P+TF/Z15G8hjsbEqyMMGOTOdwIHXp19O30qRhHpciSFP7LshEy/NsRwWO3ABOeRnHXp26ZOrHpWmRBxHalQ4wwCtg8g/0FAFa/v7Pzl0uJiLiJEmMexgBGdyg5xjqp49q1bT/jzh/65r/Kp+0aP+GiaiqMwooAKiuf9T+I/mKip8LGtx0f+rX6U+nD4UD3Cs/VPux/j/SiWxEtjQoqigooAKjn/wCPeT/cP8qa3Aq6Z924/wCuv/sq1epy+IUdgoqRhRQBQ1X/AI9k/wB/+hrMez0u9WCeaG880IPmWCX0H+z7D/OKn7Ro/wCGh0FhpNsytFDehlG0E28hOMkkZK98n/8AXTE0rRo12rb3gG3b/wAe8vTOT/D7n8+MVRmSGw0gzmYW92rMCGxayYbKFORt9CfzpF0/SRyYb1jhgSbeXkNgNn5e4HXr+QwARnSdG/d7IL6MxFSmyCX5duMfw+1Mhh0iLWEit4LxbtIt6vJA4Xaz8gsR1z6nntnBqKnwscdzpI/9Wv0p9OHwoHuFZ+qfdj/H+lEtiJbGhRVFBRQAVHP/AMe8n+4f5U1uBV0z7tx/11/9lWr1OXxCjsFFSMKKAKOq/wDHsn/XT+hqxaf8ecP/AFzX+VT1NH/DRNRVGYUUAFRXP+pP1H8xUVPhY1uOj/1a/Sn04fCge4Vn6p92P8f6US2IlsQamNOuplW5nmjlt1LBo9yldxC5BA65449apkaNNFJJJqNxMkUnnlmkZvLILLkcdAWPtwOwqihhOky7Ijq2o/KwQZlkHzHGMnHXp1+tSXE2lR3bvPqt4CzHMZdynB5AGMYHt0oAc0enlwG1TUPkUzjMjbduBz05A4+mfekt9R0qCKQR6nczs6BAsxduTnHBHBNNbgaemfduP+uv/sq1epy+IUdgoqRhRQBR1X/j2T/rp/Q1YtP+POH/AK5r/Kp+0aP+GindaNDdXMlx9pu4ZH27jBMUzj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Fig 4.2. Diagrama de secvență pentru utilizatorul Coordonator de activitate

Pentru vizualizarea pachetelor, locatiilor si vizualizarea rutei optimale, întâi se va trimite o solicitare din interfața grafică utilizator. După, se va apela una dintre metodele viewParcel(), viewLocations(), searchOptimalRoute() sau searchParcel. Aceasta metoda va fi apelata în controller. Această solicitare se duce mai departe în model de unde va fi apelată metoda requestData(String typeOfRequest), iar aceste date vor fi trimise mai departe în interfața grafică utilizator de unde utilizator le va putea vedea.

Pentru atribuirea unui pachet către un poștaș, se va apăsa un buton din interfața grafică utilizator, iar controllerul va apela metoda assignParcel(Mailer, Parcel), care va accesa datele din baza de date prin intermediul Model assignToMailer(String name, int parcelNo).

Pentru citirea, crearea, editarea și ștergerea unui pachet se va apela metoda aferentă din controller, iar datele vor fi preluate din Model prin intermediul uneia dintre metodele insertParcel, editParcel, deleteParcel și viewAllParcelsAsObjects. Datele vor fi trimise ulterior către interfața grafică unde vor fi afișate.

Pentru salvarea raporturilor în diferite formate, se va apăsa un buton din interfața grafică, iar controllerul va apela metoda saveReport(type). Datele vor fi solicitate din database prin metoda viewAllParcels, vor fi trimise înapoi la controller de unde le va prelucra și va crea raportul.

Pentru selectarea limbii aplicației, utilizatorul va selecta limba dintr-un combobox si se va autentifica. De îndată ce este apăsat butonul de autentificare, o solicitare se va duce către controller prin metoda SetLanguage(String language). Datele pentru limbă vor fi citite din fișier de către Model și vor fi trimise către controller de unde se vor actualiza componentele dinamice.

1. Diagrama de secvență pentru Administrator

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TTyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA1OjIzIDE5OjQxOjI0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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KFqH/YMtP/AEbc1zV9l6mFb4UVrX/kbvC3/X9J/wCklxXq1eU2v/I3eFv+v6T/ANJLivVqnD7S9SMP8L9QooorrOoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA898df8j94c/7Bmof+jbOsbxR/x56d/wBhfTf/AEtgrZ8df8j94c/7Bmof+jbOsbxR/wAeenf9hfTf/S2CvZpfwEeZV/iP+ux61S0lLXjHphRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBxfxo/5JD43/7Al7/6IeuQrr/jR/ySHxv/ANgS9/8ARD1yFcVfc+iyz+G/U6X4If8AIgr/ANhXVf8A04XFd4O1cH8EP+RBX/sK6r/6cLiu8Hauin8C9Dx8T/Hqer/MdRRRWpyhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzHiH/katJ/687r/ANDgqjrv/Hnbf9f1n/6Ux1e8Q/8AI1aT/wBed1/6HBVHXf8Ajztv+v6z/wDSmOvkMX/vFT1X5I9Sn/DR2lLSUtfXLY8sKKKKYBRRRQAUUUUAFFFFADa808T/APJQtQ/7Blp/6Nua9MxXz18dPHN/4M+ISfYobeX7TpkG/wC0KxxtlnxjDD+8a48VJQgpPuc1d8sLnYWv/I3eFv8Ar+k/9JLivVq+Yvhb8R9T8YfErw7ZXkFrFEks0wMCMGyLeZe7HjDGvp2pwk1UjJruThneLfmFFFFdx1hRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHnvjr/AJH7w5/2DNQ/9G2dY3ij/jz07/sL6b/6WwVz37Tfjq/+H2seFNR06G2mnkgvrcrdKzLtLWzZ+VhzlR39a8r8O/HTXvGXirw7o97aabFbXOr2O97eKQONtzG4wS5HVR2r3aNNvDqXqeTWmlVa/rofZ9LSUteEesFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHF/Gj/kkPjf8A7Al7/wCiHrkK6/40f8kh8b/9gS9/9EPXxD/w1h4u/wCgdov/AH4m/wDjtefiZKLVz6nKKMqtOXL0Z9qfBD/kQV/7Cuq/+nC4rvB2ryz9mPVpte+C+i6lcKiT3lzfXEixghQz3k7EDJJxk+teqCuul8EfQ8HFK2IqLzf5i0UUVqcgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcx4h/5GrSf+vO6/9Dgqjrv/AB523/X9Z/8ApTHWN8YPE114V1DRLu0SGSRormIiZSRgmI9iOeBXGaX8TNU8QaxpWn3EFokM19bbmiRg3EyMMZY9xXw+NxEY4udN73X5I9ejBuimfQFLSUtfbrY8gKKKKYBRRRQB/9k=)  
Fig 4.3. Diagrama de secvență pentru utilizatorul Administrator

Pentru citirea, crearea, editarea și ștergerea unui coordonator de activitate sau a unui poștaș, se vor introduce datele în casetele existente (dacă este nevoie) și se va apăsa un anume buton pentru funcționalitatea respectivă. Din controller se va apela una dintre metodele readActivityCoordinators(), createActivityCoordinator(AC), updateActivityCoordinator(AC), deleteActivityCoordinator(AC) în cazul în care prelucrăm date despre un coordonator de activitate, sau createMailer(Mailer), updateMailer(Mailer), deleteMailer(Mailer) sau readMailers() dacă prelucrăm date despre un poștaș. În continuare, se va apela una dintre metodele viewAllAsObjects(), insertAC(), editAC(), deleteAC(int id) sau insertMailer(Mailer), editMailer(Mailer), deleteMailer(int id) pentru poștaș. Datele vor fi trimise din Model către controller de unde pentru metodele de citire a utilizatorilor vor fi trimise mai departe către interfața grafică utilizator.

Pentru selectarea limbii aplicației, utilizatorul va selecta limba dintr-un combobox si se va autentifica. De îndată ce este apăsat butonul de autentificare, o solicitare se va duce către controller prin metoda SetLanguage(String language). Datele pentru limbă vor fi citite din fișier de către Model și vor fi trimise către controller de unde se vor actualiza componentele dinamice.

# Baza de date

Baza de date este realizată în MySQL Workbench și este susținută în mod local. Datele pot fi accesate doar de pe computerul de pe care rulăm aplicația. Nu a existat necesitatea de a face o bază de date care poate fi accesată online.

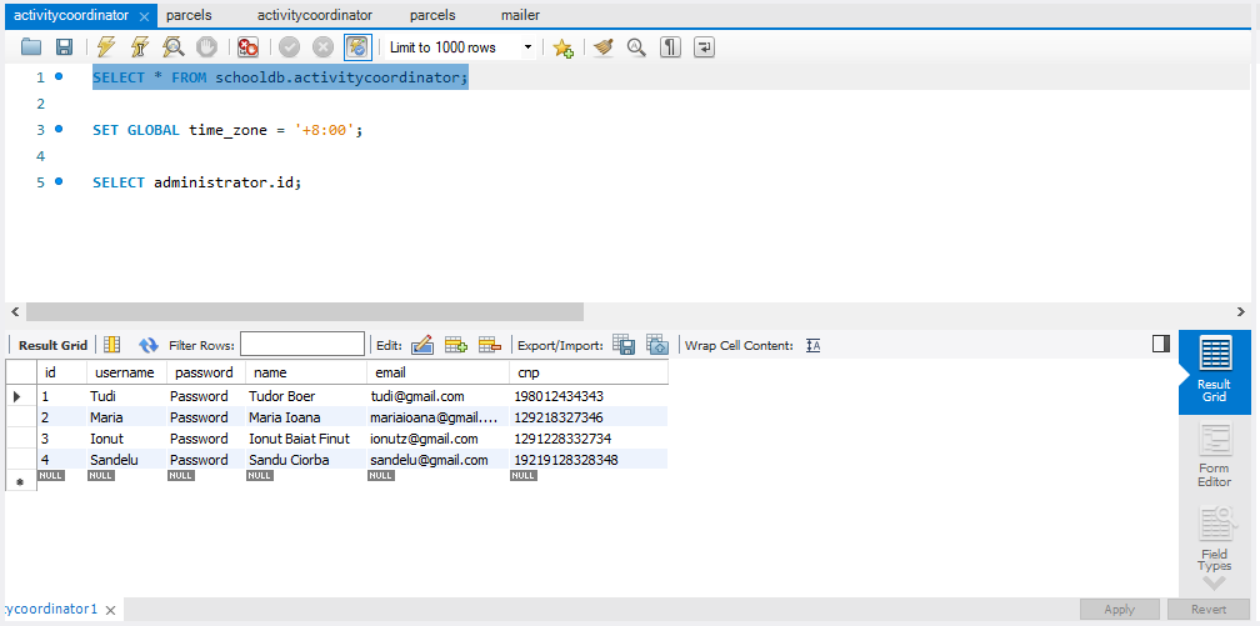


Fig 5.1. Tabelul coordonatorilor de activitate

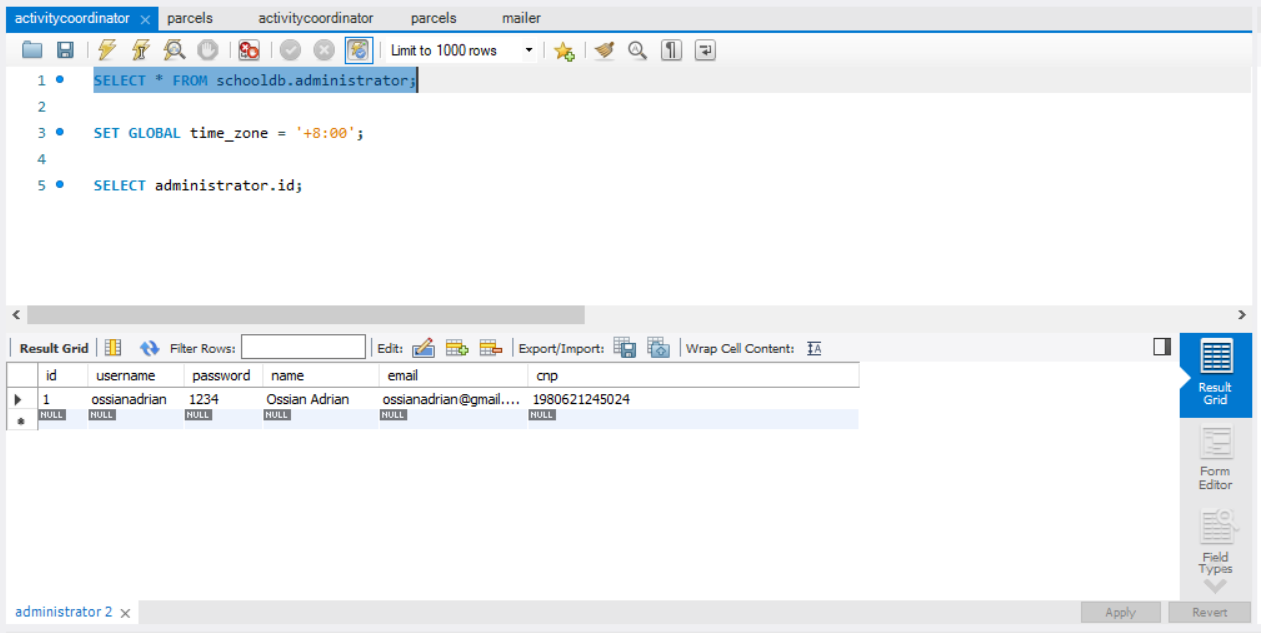


Fig 5.2. Tabelul administratorilor

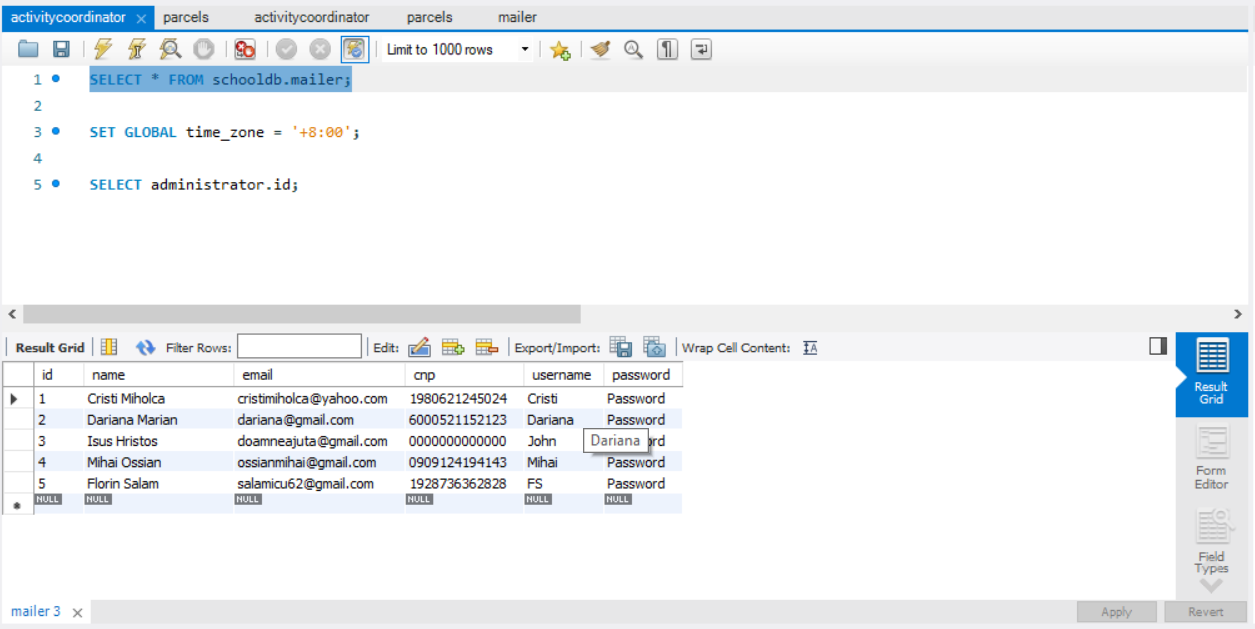


Fig 5.3. Tabelul poștașilor

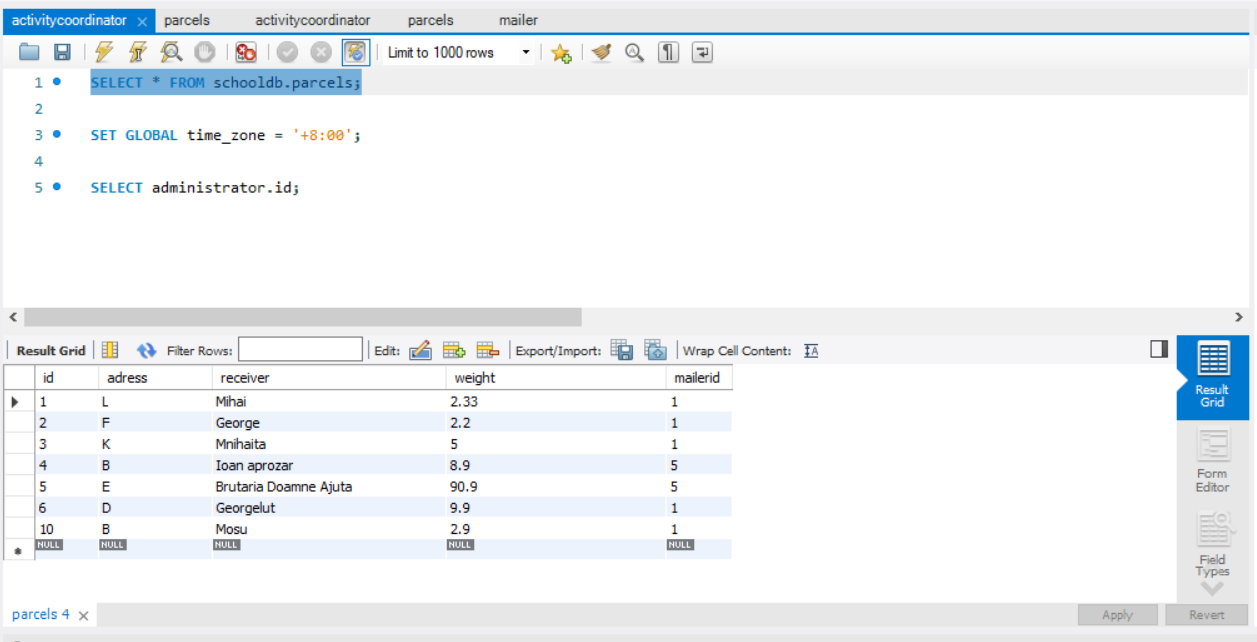


Fig 5.4. Tabelul coletelor

Diagrama bazei de date este următoarea:

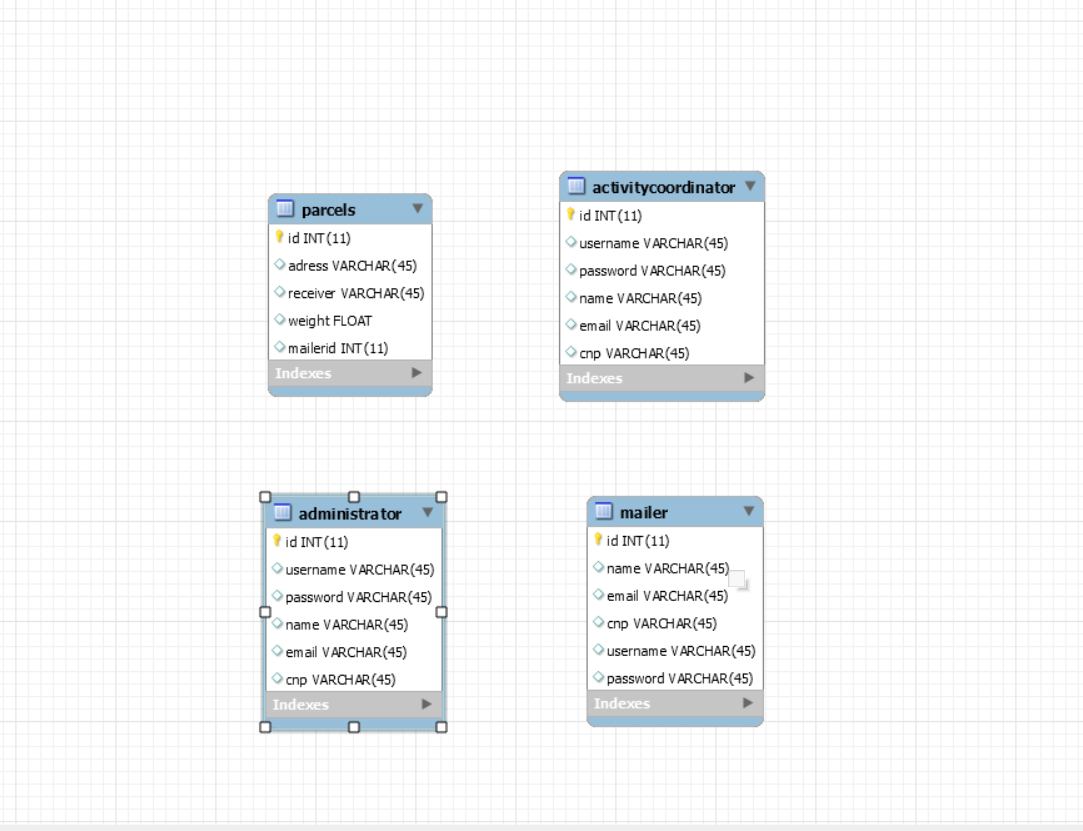


Fig 5.5. Tabelele bazei de date

Coloanele din tabelul parcels sunt adresa destinatiei, numele destinatarului, greutatea pachetului si id-ul poștașului care trebuie să o livreze.

Coloanele din tabelul activity coordinator, administrator, mailer sunt username, parola, nume, email și cnp. Sunt practic datele de identificare a fiecărui utilizator.

# Prezentarea aplicației

Interfața grafică utilizator a fost gândită de la început cu gândul de a încuraja simplitatea în navigare. Modelul realizat este dinamic, astfel aplicația rulează într-o singură fereastră, iar conținutul din aceasta se modifică în mod dinamic în funție de butoanele apăsate sau de selecțiile făcute.

În ecranul de logare avem afișat și logo-ul aplicației împreună cu căsuțele cu datele pentru autentificare. În interfața administratorului avem 2 butoane în partea de sus care comută între vizualizarea poștașilor și coordonatorilor. În partea stângă avem butonul de deautentificare împreună cu numele persoanei autentificate.

Pentru utilizatorul coordonator, avem un panel orizontal în partea superioară ce dispune de 5 butoane ce corespund funcționalităților de care dispune.

Manual de utilizare:

În continuare vom exemplifica majoritatea funționalităților aplicației prin:

* + Autentificare
  + Schimbarea limbii aplicației
  + Crearea unui coordonator de activitate
  + Crearea unui poștaș
  + Crearea unui pachet
  + Atribuirea unui pachet către un poștaș
  + Crearea unui raport în format CSV
  + Vizualizarea unui traseu optim pentru un poștaș
  + Căutarea unui colet

Pentru pornirea aplicației întâi vom iniția serverul, după clientul.

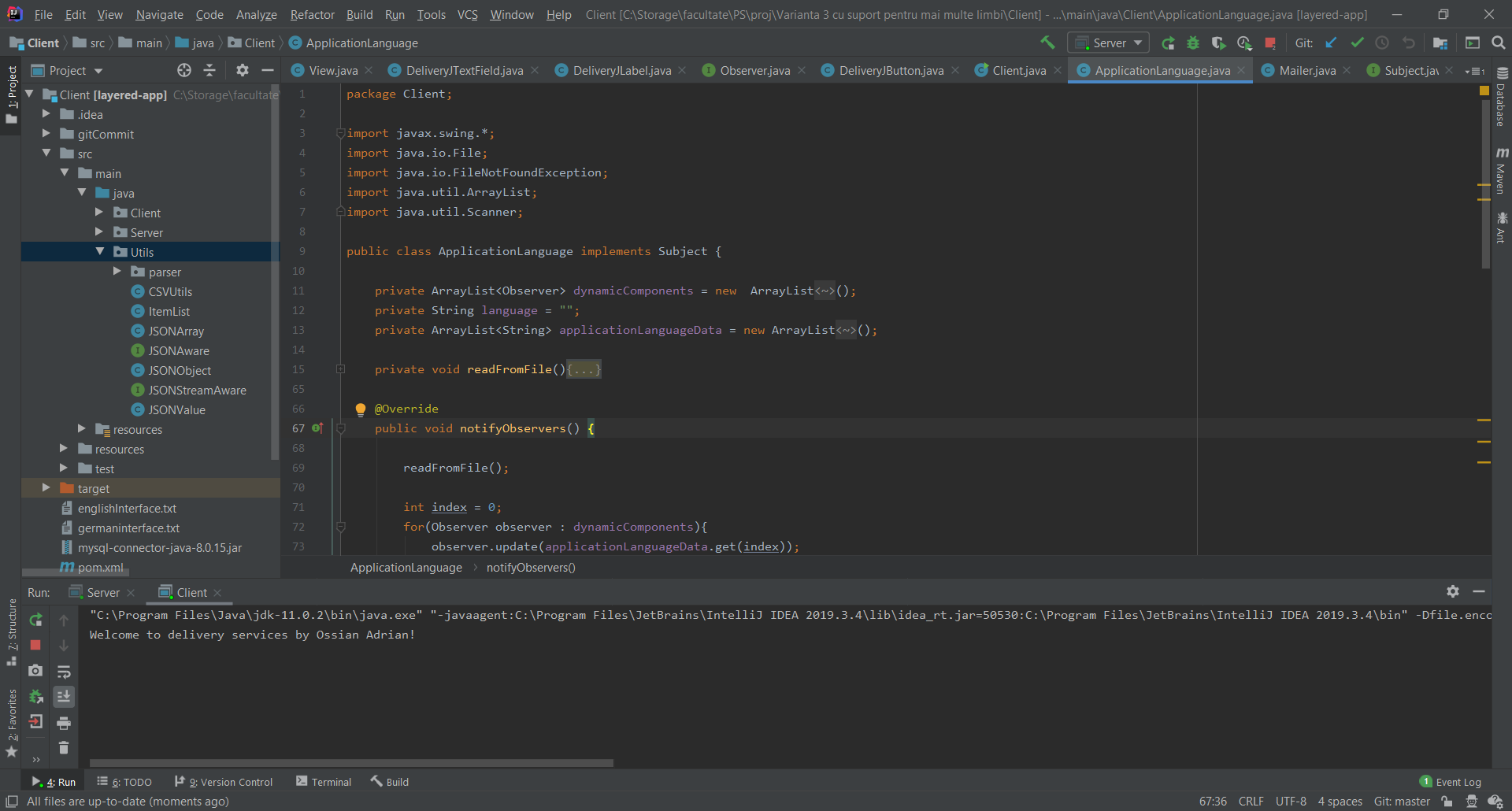
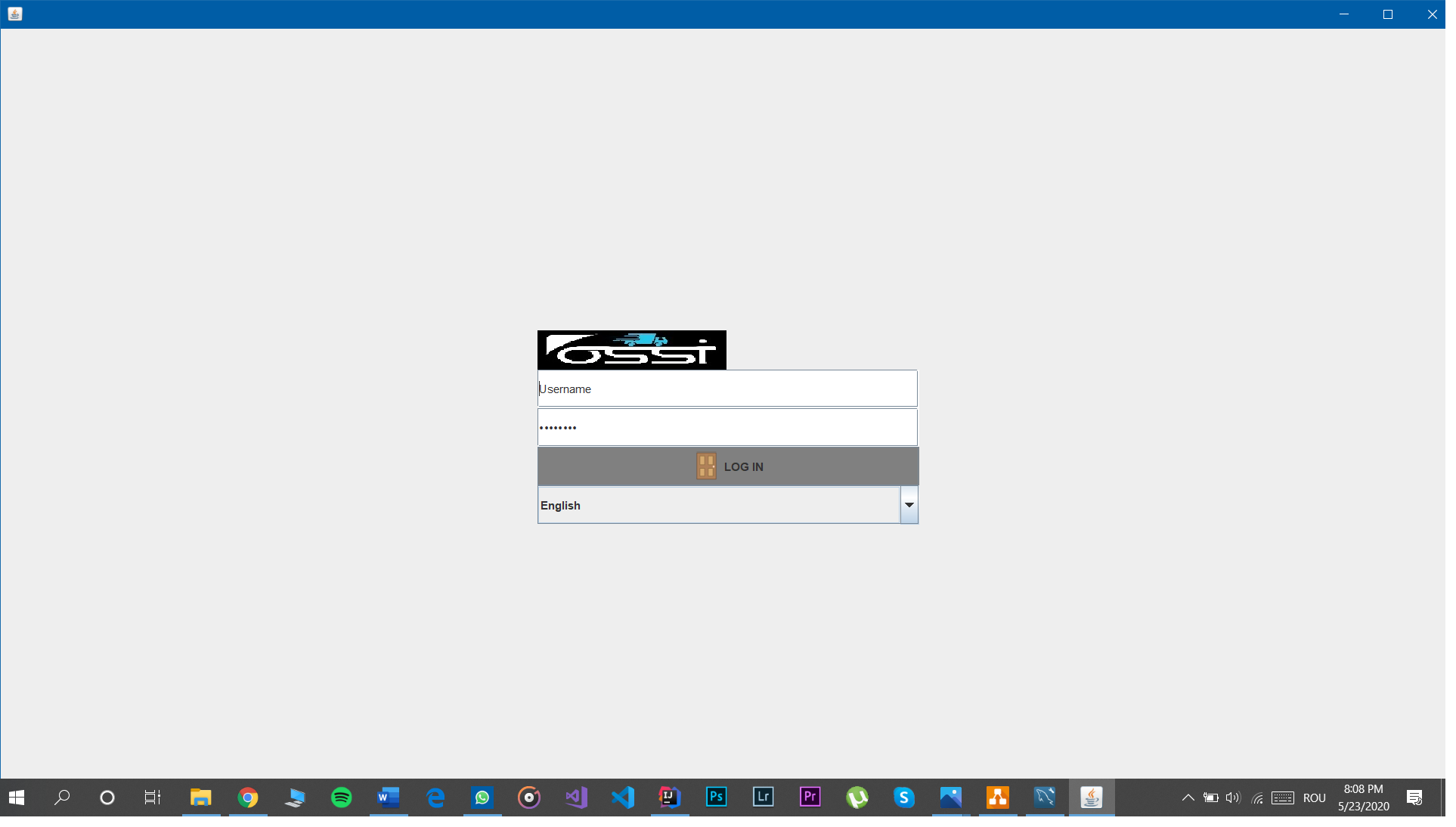


Fig 6.1. Rularea aplicației Server

Se deshide fereastra principală de unde putem selecta limba și putem să ne introducem datele de autentificare.

 Fig 6.2. Ecranul de autentificare

Ne autentificăm cu un cont de administrator pentru a crea utilizatori noi.

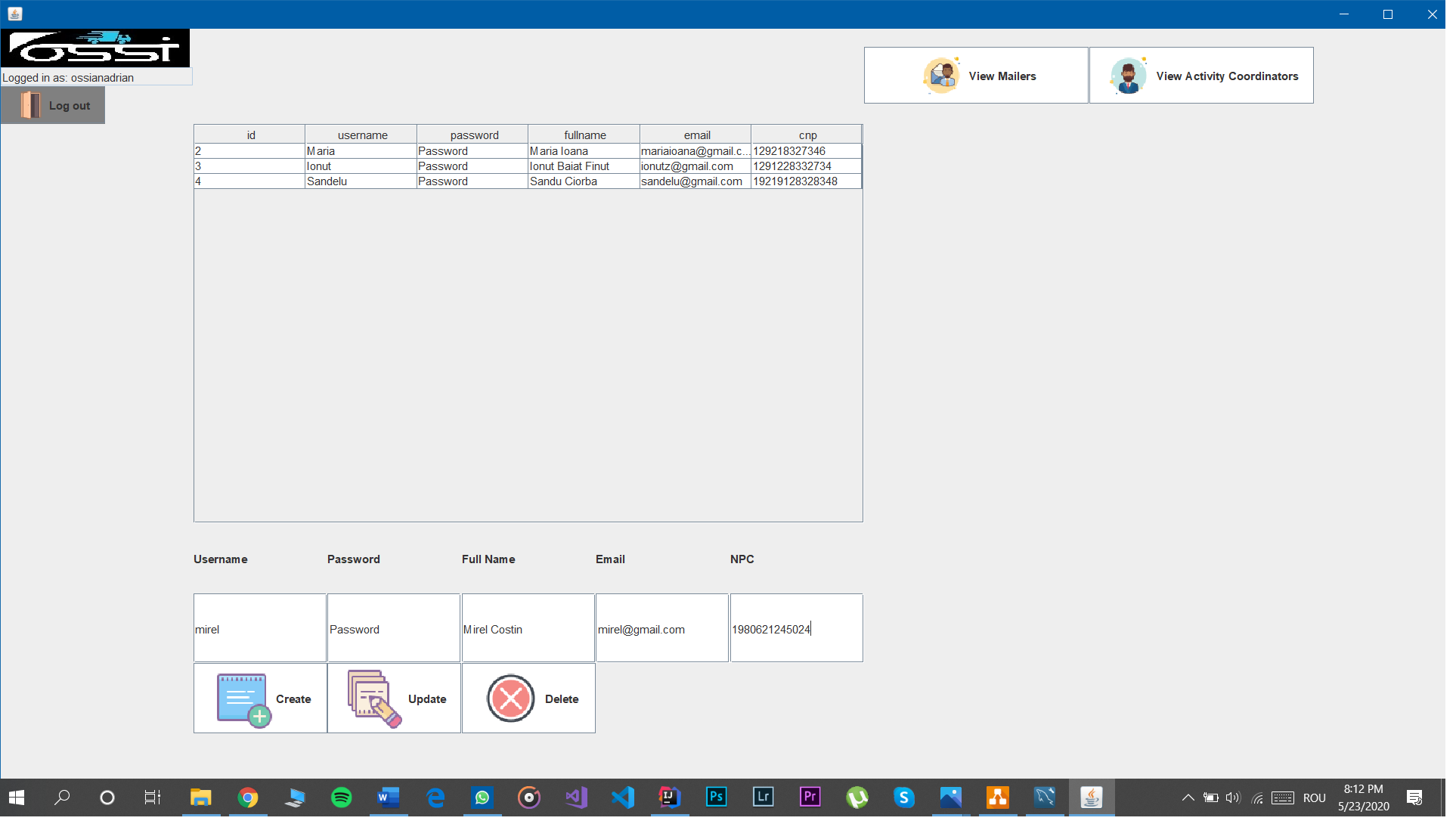
Se introduc datele necesare și se apasă butonul Log In. 

Fig 6.3. Interfața grafică Administrator, tabelul Coordonatori de activitate

Se pot observa utilizatorii de tip coordonator de activitate. Completăm detalii pentru crearea unui utilizator nou și apăsăm Create. Automat se introduce în tabel noul utilizator.

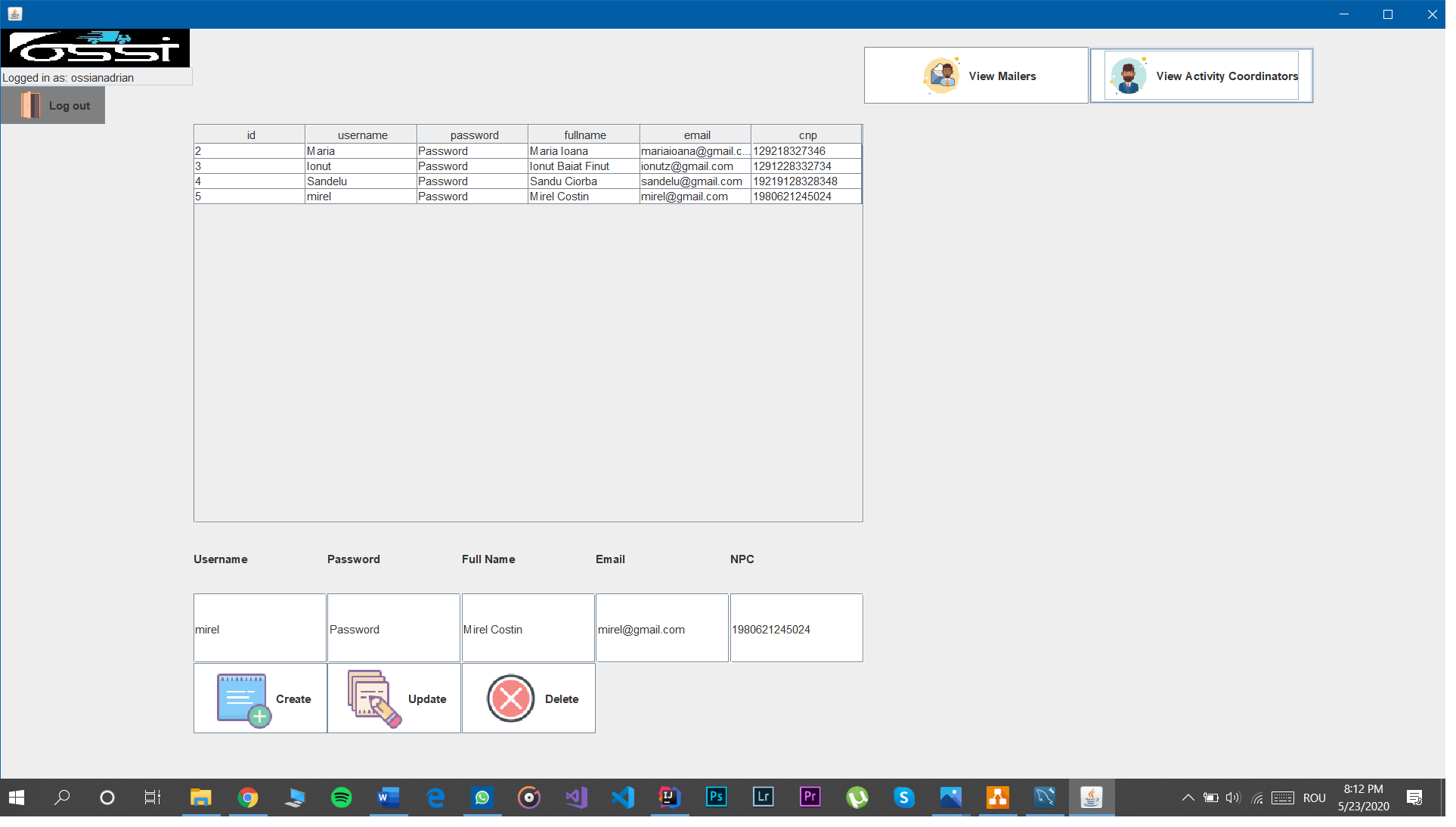


Fig 6.4. Interfața grafică Administrator, inserarea unui nou utilizator în baza de date

Vom schimba email-ul din gmail în yahoo introducând noul email în căsuța aferentă și apăsând butonul update.

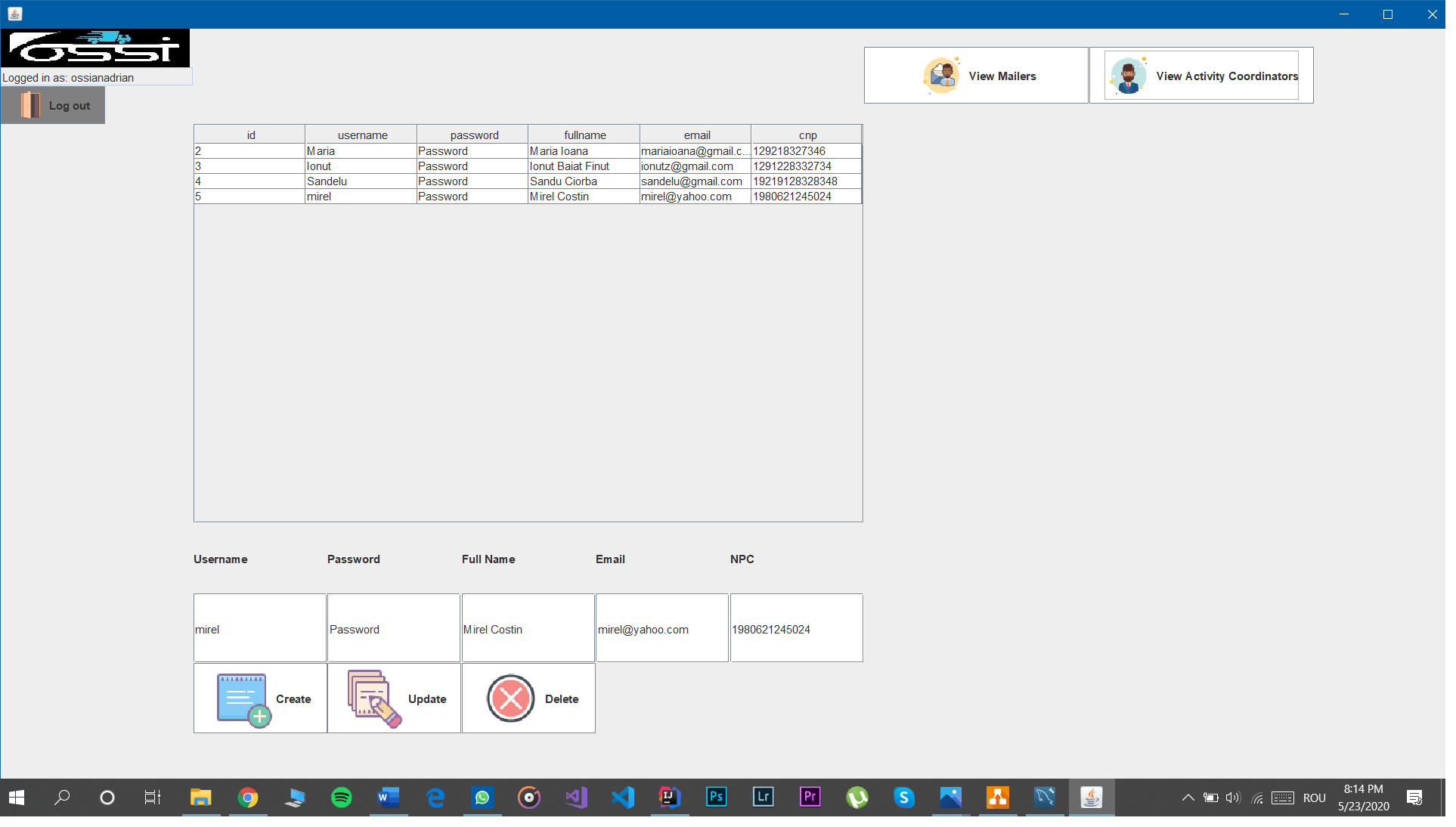


Fig 6.5. Interfața grafică Administrator, editarea unui utilizator

Introducem numele persoanei pe care vrem să o eliminăm și apăsăm delete.

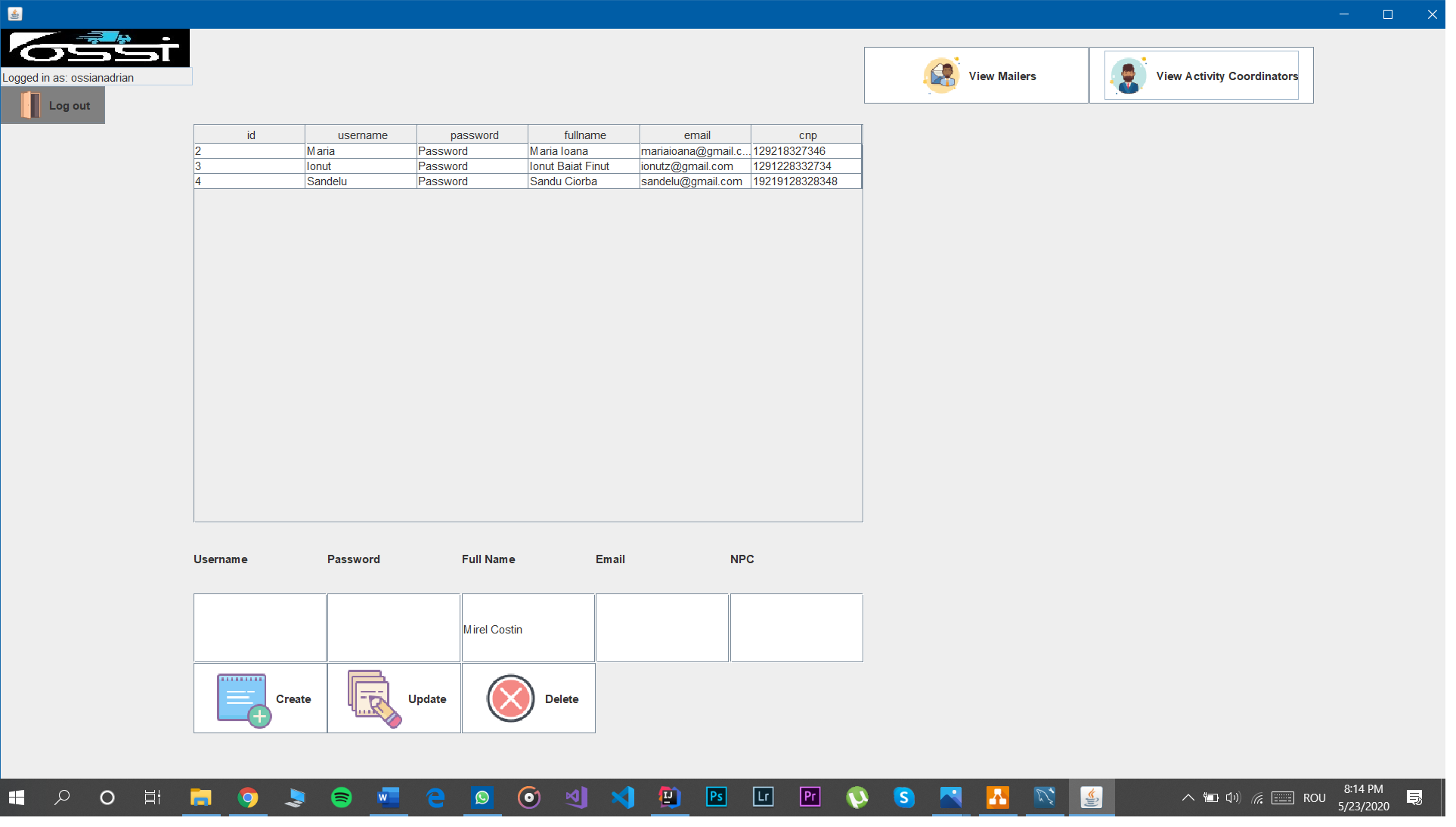


Fig 6.6. Interfața grafică Administrator, ștergerea unui utilizator

Pentru a vizualiza poștași, apăsăm butonul View Mailers din dreapta sus. Este prezentat automat tabelul cu mailers.

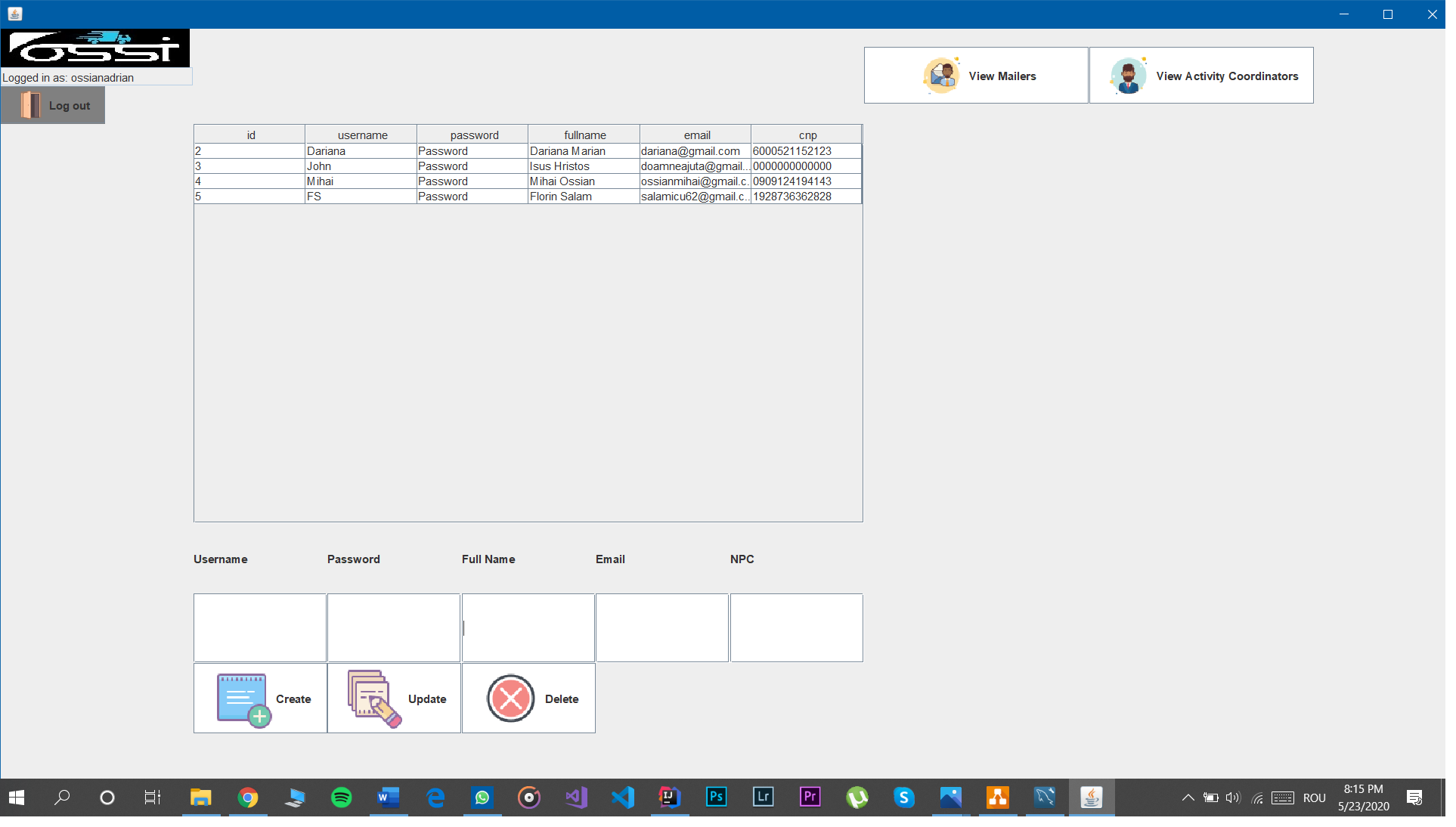


Fig 6.7. Interfața grafică Administrator, tablul poștașilor

Pentru deautentificare apăsăm butonul Log Out din stânga sus.

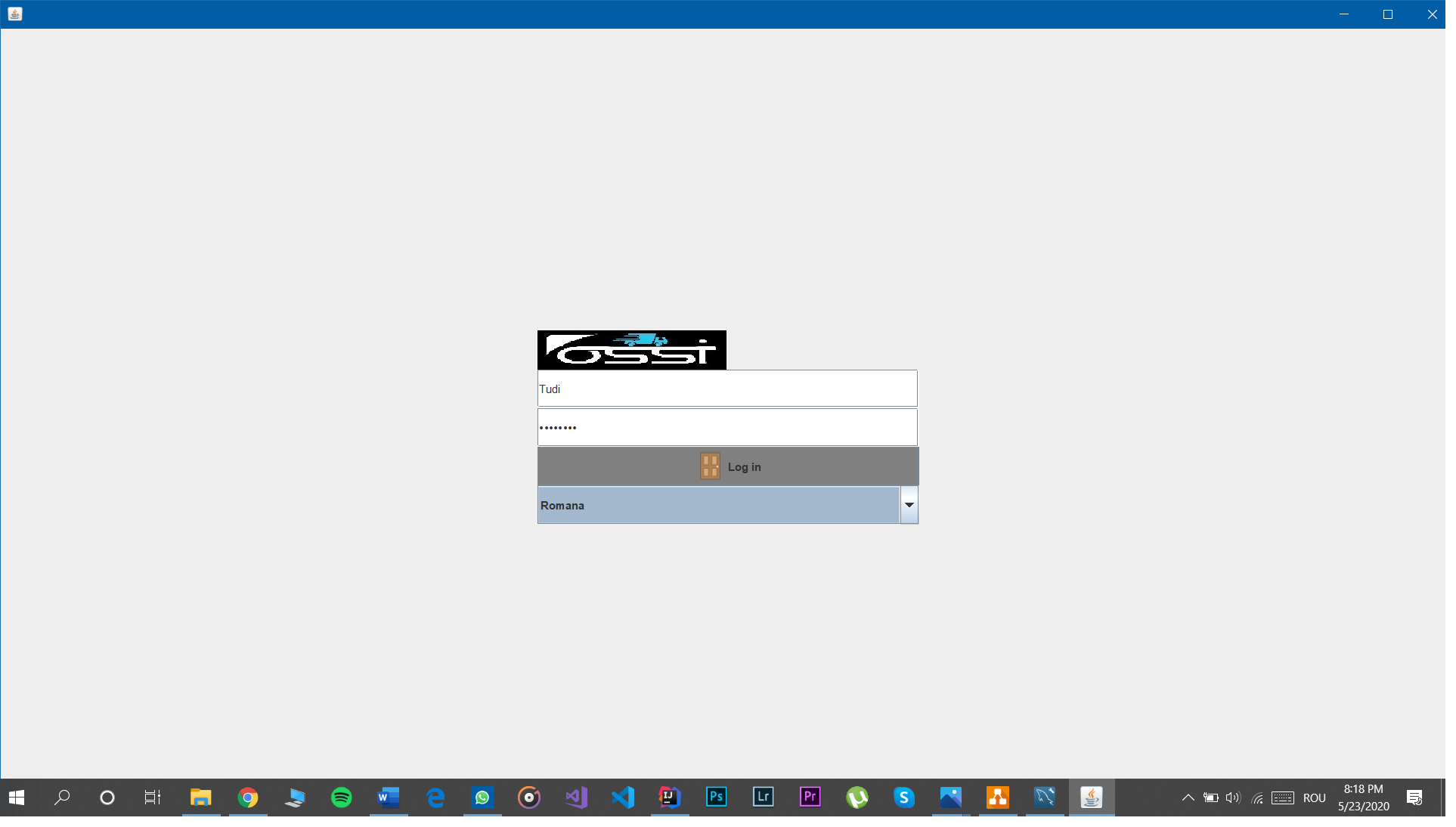


Fig 6.8. Operațiunea de deautentificare

Ne vom autentifica cu un cont de coordonator de activitate. De data asta selectăm limba română.

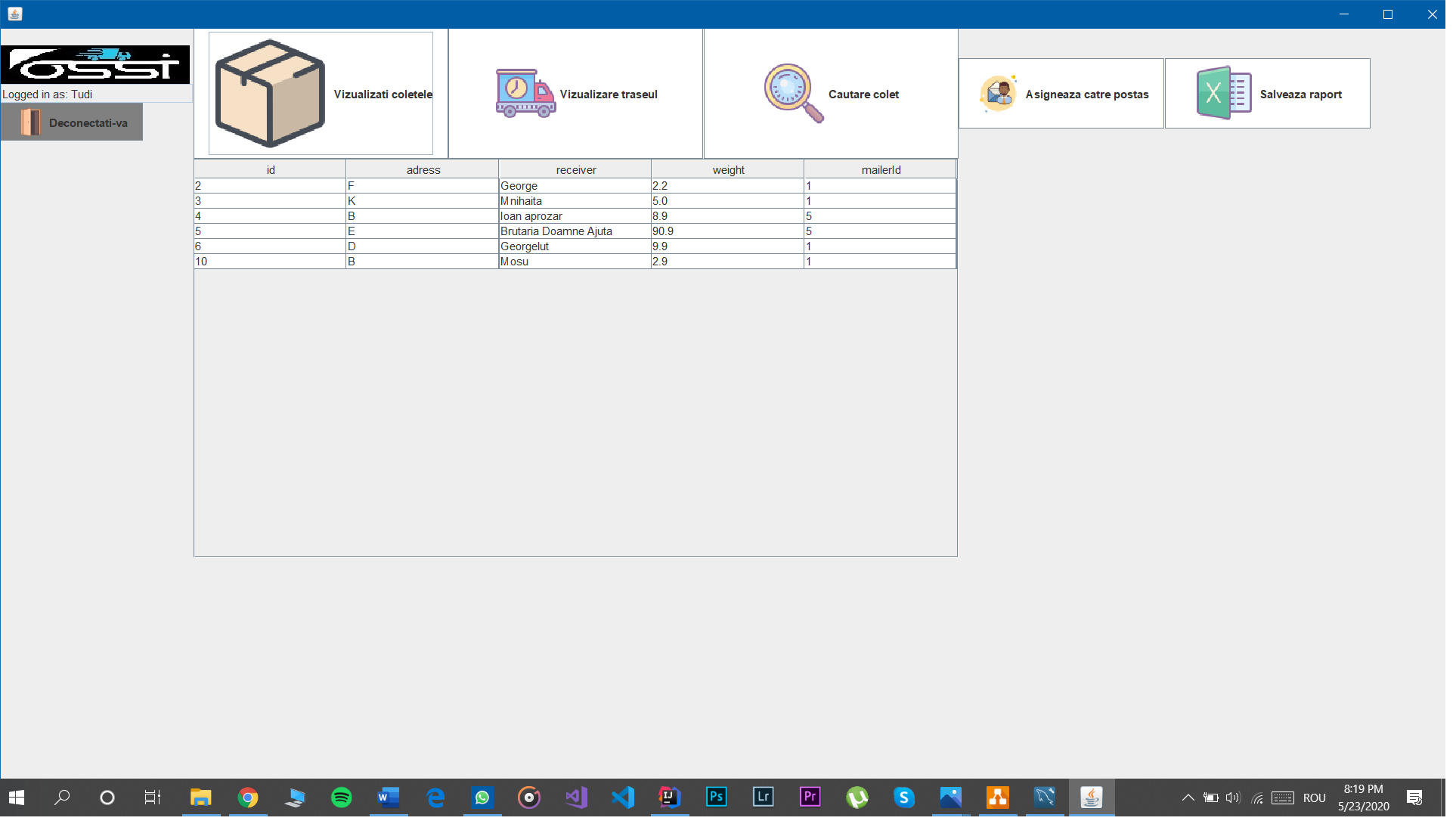


Fig 6.9. Interfața grafică Coordonator de activitate

Ne este prezentat un panel cu butoane așezate pe orizontală ce corespund meniurilor coordonatorului. Vom căuta un colet. Apăsăm pe căutare colet.

 Fig 6.10. Interfața grafică Coordonator, căutarea unui colet

Am introdus deja numărul coletului și am apăsat pe butonul cu lupă.

Daca dorim să modificăm un colet, scriem date noi și apăsăm butonul de editare. Eu am schimbat numele destinatarului în Maria. Se observă modificarea făcută dacă apăsăm pe butonul Vizualizare Colete.

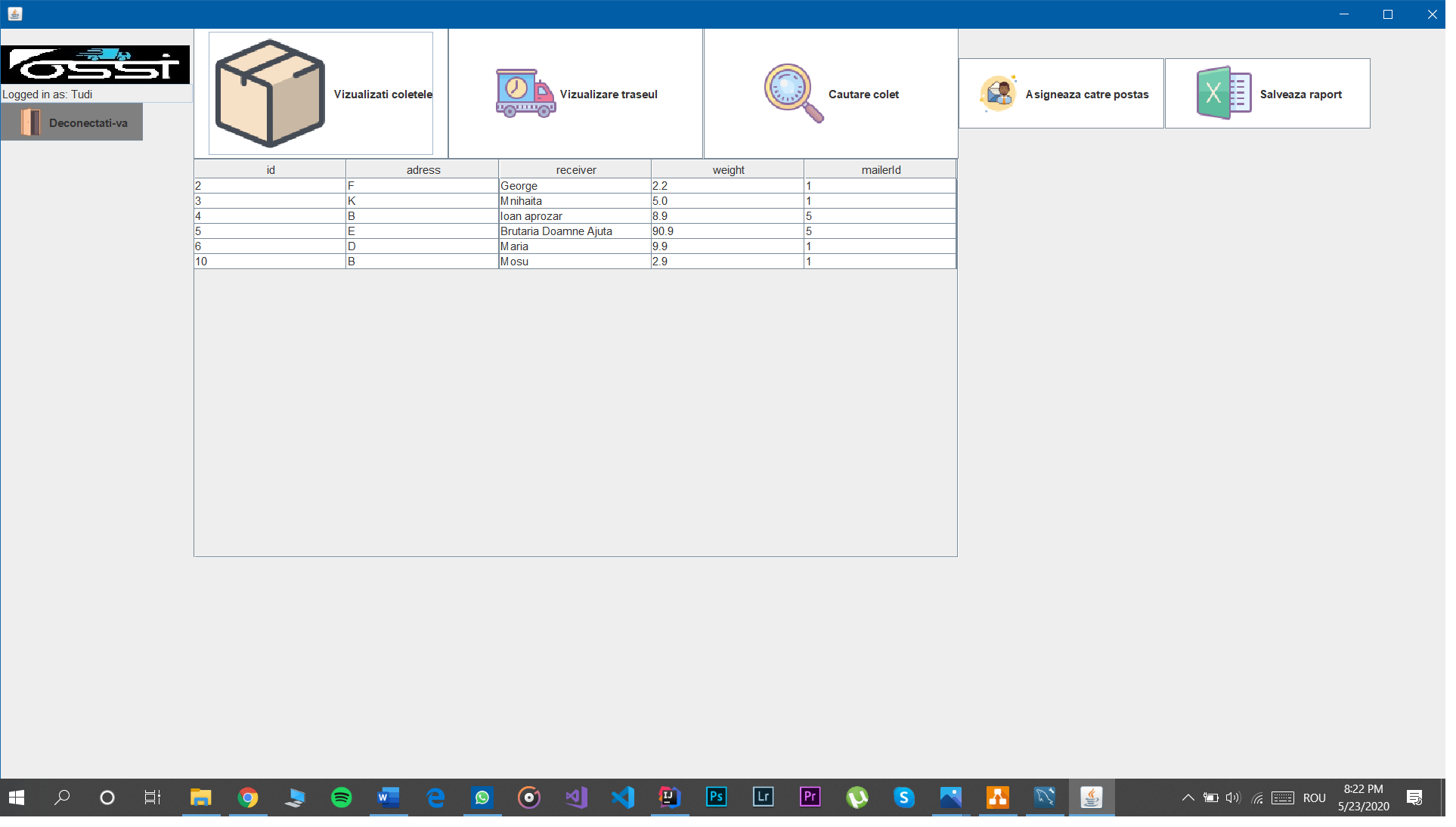


Fig 6.11. Interfața grafică Coordonator, tabelul coletelor

Pentru a atribui un pachet unui poștaș, se apasă pe butonul Asignează către poștaș și se va deschide un meniu nou în care vom introduce datele. După, se apasă pe butonul corespunzător.

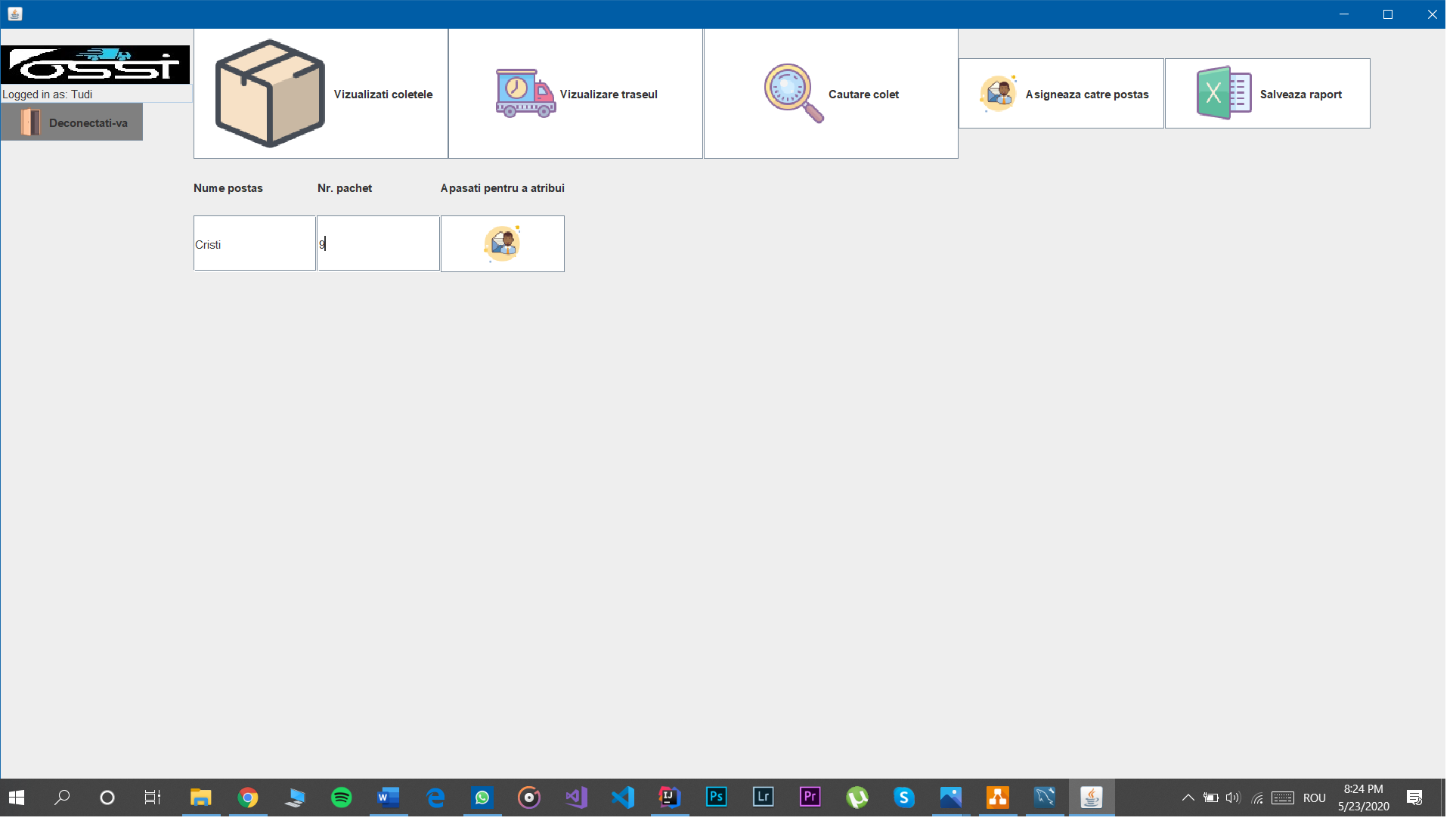


Fig 6.12. Interfața grafică Coordonator, atribuirea unui colet către un poștaș

Pentru a salva un raport cu coletele, apăsăm pe butonul intitulat Salvează raport. După selectăm tipul de raport și apăsăm pe butonul de lângă tip.

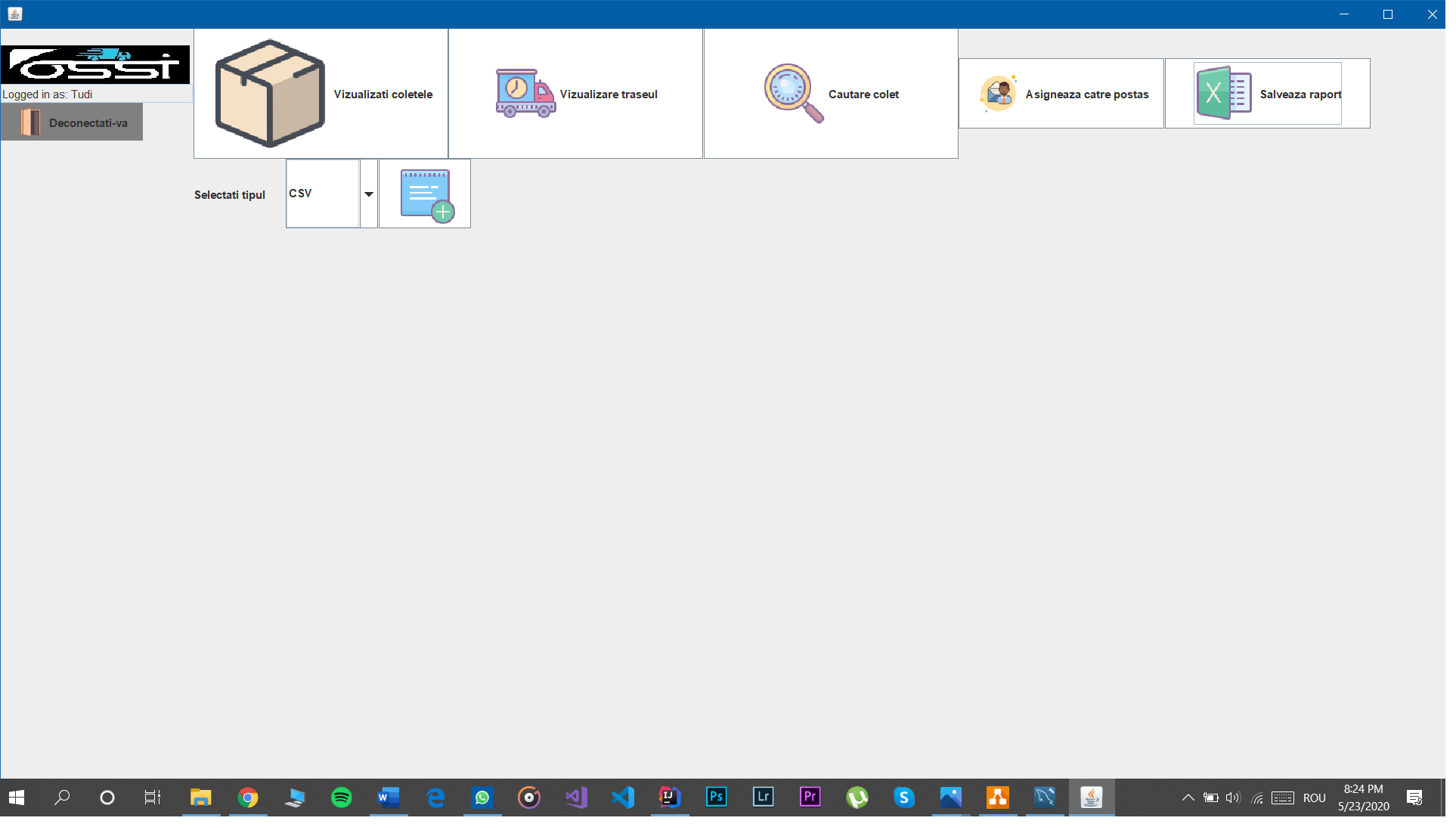


Fig 6.13. Interfața grafică Coordonator, salvare rapoarte

Deschidem fișierul exportat și verificăm datele.

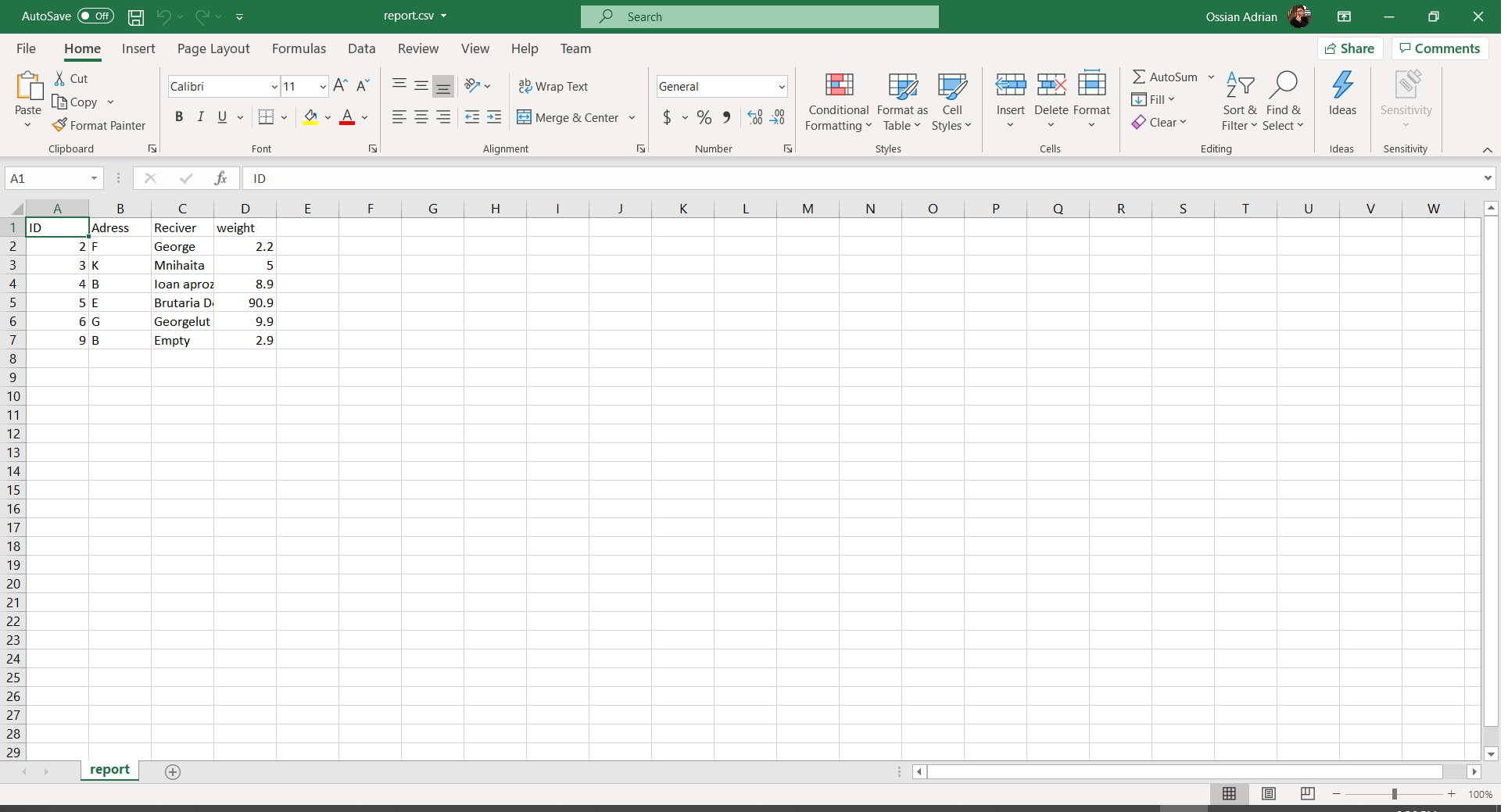


Fig 6.14. Tabelul excel generat în urma operației

Ne deautentificăm și introducem datele pentru un utilizator poștaș. De data asta alegem limba germană.

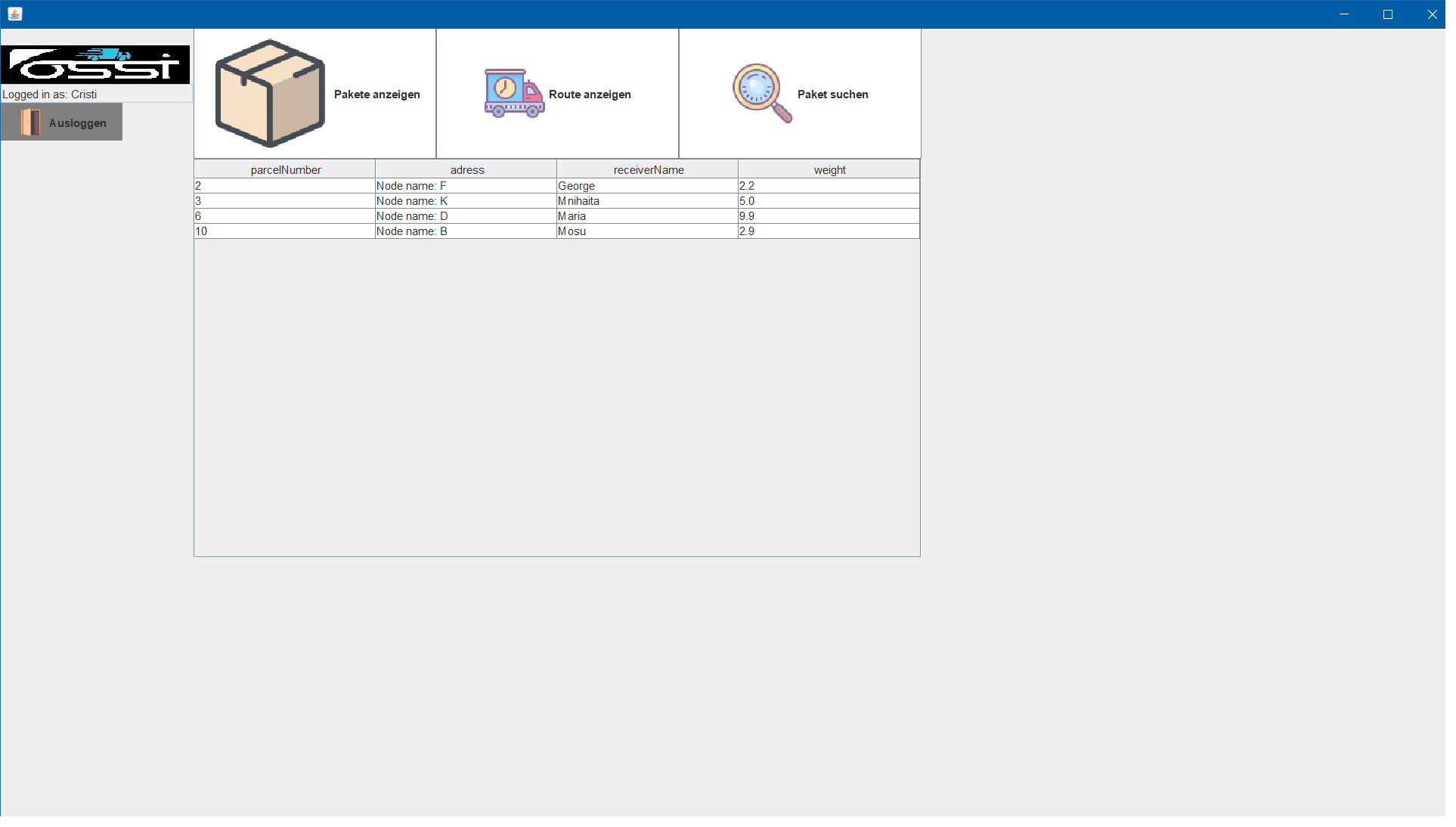


Fig 6.15. Interfața grafică Poștaș, tabelul coletelor aferente acelui poștaș

Ne este prezentată instant lista cu pachetele pe care acest poștaș trebuie să le livreze. Dacă apăsăm pe butonul cu mașina, vom vedea și ruta.

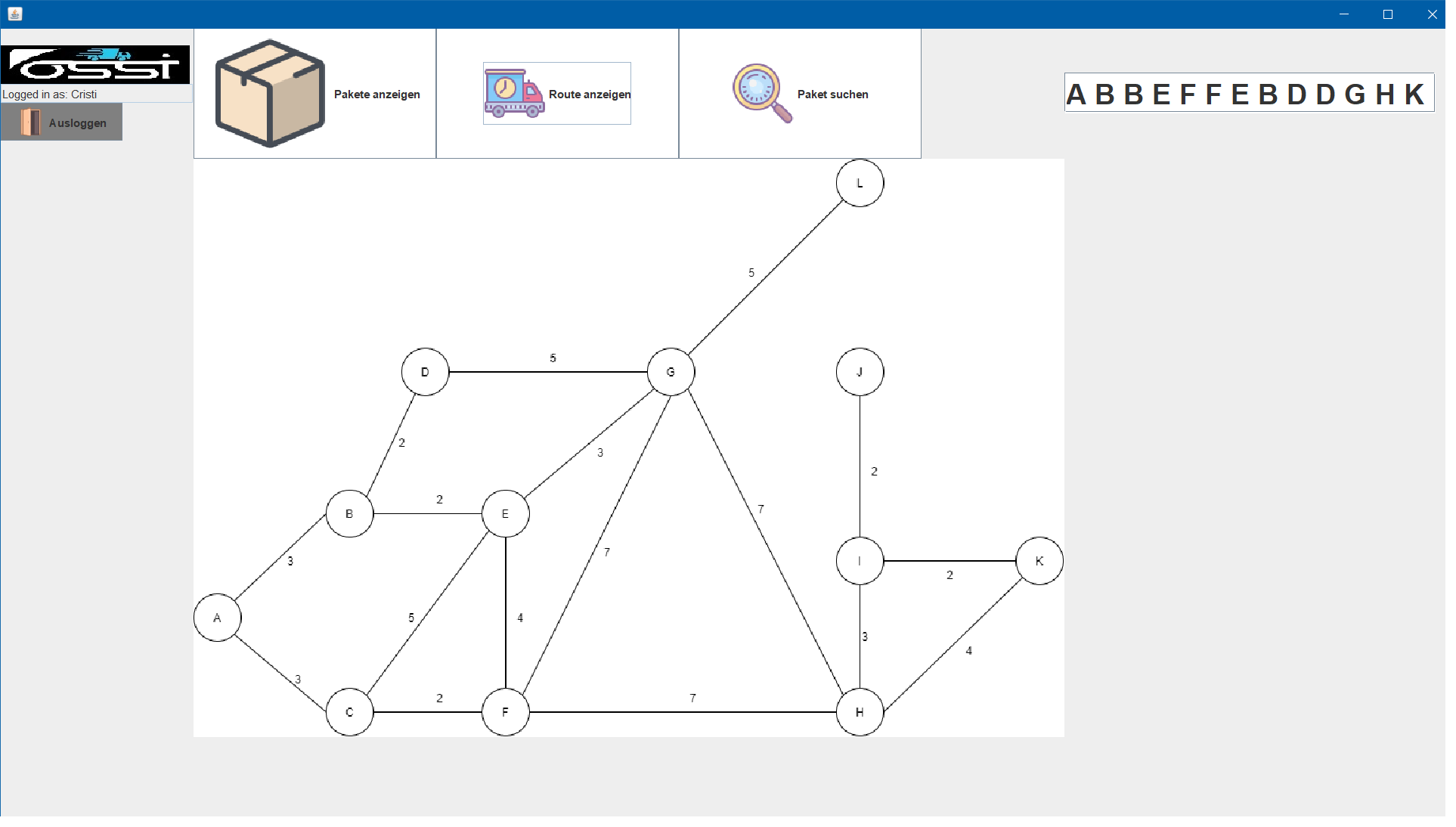


Fig 6.16. Interfața grafică Poștaș, vizualizarea rutei optimale

Ruta ideală este afișată în dreapta sus. Literele dublate reprezintă stopurile pentru a preda un pachet.

Dacă apăsăm pe lupă, putem căuta un colet. Observăm că sunt dezactivate anumite funcționalități pentru acest utilizator.

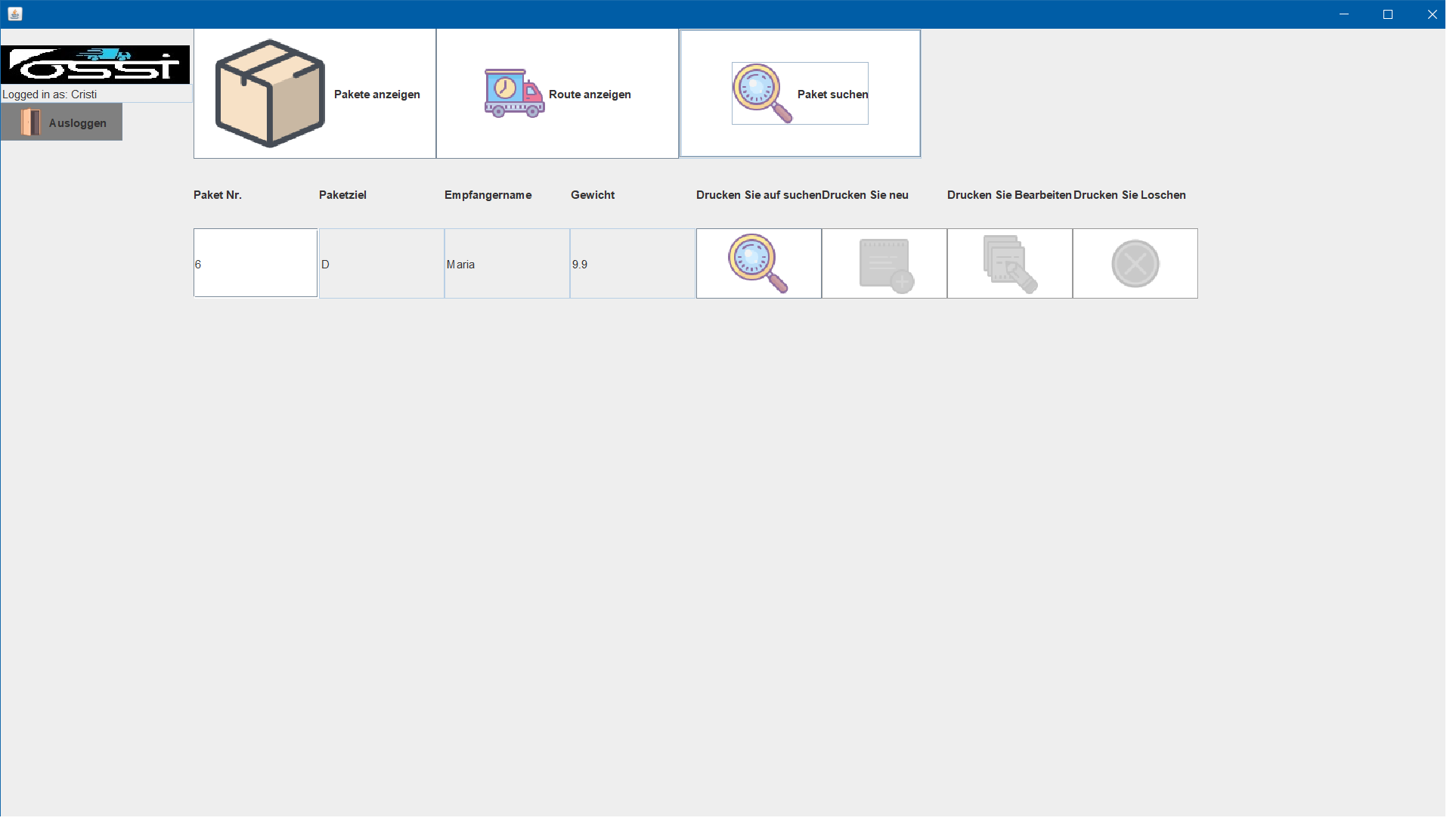


Fig 6.17. Interfața grafică Poștaș, căutarea unui colet