Faculatea de Automatica si Calculatoare

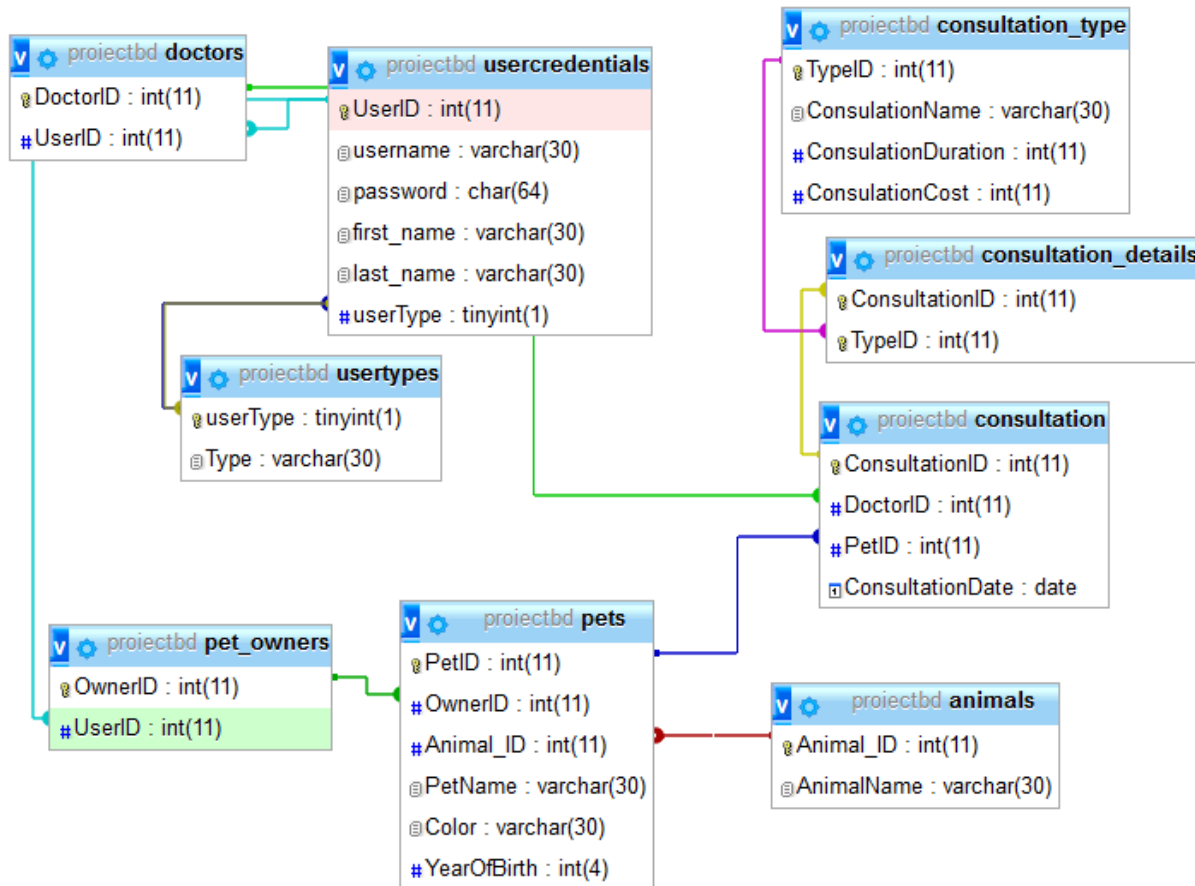# Proiect Baze de Date

Panaite Andrei – Silviu

323AC

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1. Diagrama structura tabele

2. Descriere

Pentru crearea acestui proiect am folosit JavaScript si jQuery pentru partea de frontend , PHP si MySql pentru partea de backend si Bootstrap pentru design-ul site-ului.

La deschiderea site-ului utilizatorul se poate loga sau isi poate crea un nou cont.

Daca logarea s-a efectuat cu success, sectiunea de login va fi inlocuita printr-un load asincron cu un panel corespunzator tipului de utilizator (userType din tablela usercredentials).

Ulterior logarii site-ul va face o serie de requesturi catre server care va raspunde cu datele corespunzatoare requestului facut. Datele sunt apoi prelucrate si prezentate in forma tabelara.

Exemplu:

Trimiterea requestului:

```javascript
var postRequest = function (options) {

    var defaultOptions = {
        action: false,
        callback: function () {
        }
    };
    $.extend(defaultOptions, options);

    $.post('php/queries.php', {query: defaultOptions.query, ownerID: UserIDVar}, function (data) {
        console.log(data);
        var receivedData = JSON.parse(data);
        //console.log(receivedData);
        var $table = $("#" + defaultOptions.table);
        generateTable($table, receivedData, defaultOptions.action);
        //console.log(defaultOptions);
        defaultOptions.callback();

    });
};

postRequest({query: "consultationHistoryForUser", table: "recordsUserTable"});
```

Rezolvarea reqestului pe server :

```php
<?php

if ($_POST['query'] == "consultationHistoryForDoctor") {
    $ownerID = $_POST['ownerID']; //id-ul doctorului din lista de useri
    $query = mysqli_query($database_connection,
        "SELECT CONCAT(UD.first_name , ' ' , UD.last_name) AS Doctor , p.PetName as `Pet Name` ,
        CONCAT(UPO.first_name, ' ', UPO.last_name) AS Owner, DATE_FORMAT(C.ConsultationDate,'%d-%m-%Y') as Date
FROM consultation AS C
  INNER JOIN doctors AS D
    ON C.DoctorID = D.DoctorID AND C.ConsultationDate <= DATE(NOW())
  INNER JOIN
  ( SELECT UD2.UserID , UD2.first_name , UD2.last_name FROM usercredentials as UD2
  WHERE UD2.UserID = $ownerID ) AS UD
  INNER JOIN pets AS P
    ON C.PetID = P.PetID
  INNER JOIN pet_owners as PO ON P.OwnerID = PO.OwnerID
  INNER JOIN usercredentials AS UPO ON PO.UserID = UPO.UserID
ORDER BY C.ConsultationDate");


if ($query) {
    $row = mysqli_fetch_all($query, MYSQLI_ASSOC);
    $data = null;
    if ($row) {
        $keys = array_keys($row[0]);
        $data[0] = $keys;
        $data[1] = $row;
    }

    echo json_encode($data);
}

mysqli_close($database_connection);
```

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Pe site se pot loga 3 tipuri de utilizatori : user , doctor sau administrator.

Un utilizator de tip user isi poate vedea istoricul consultatiilor si pe cele viitoare, poate adauga, sterge sau modifica o consultatie si poate vedea informatii legate de animale sale.

Doctorul poate accesa istoricul consultatiilor , consultatiile sale viitoare si pe cele cuprinse intre doua date si poate vedea o lista cu clienti si animalele lor.

Administratorul poate modifica sau sterge un user (adaugarea unui user se face la user register) si poate accesa liste cu doctorii, consultatiile , clientii si toate animalele.

3. Selecturi folosite

Toti utilizatorii

```
SELECT U.username AS Username,U.first_name AS `First Name` , U.last_name AS `Last Name`,UT.type AS `User
Type` FROM usercredentials U
  INNER JOIN usertypes UT ON U.userType = UT.userType
```

Toti Doctorii

```
SELECT CONCAT(U.first_name , ' ' , U.last_name )AS `Name`,U.username AS `Username` ,COUNT(C.ConsultationID)
AS Consultations

FROM usercredentials AS U INNER JOIN doctors AS D
   ON U.UserID = D.UserID
  LEFT JOIN consultation AS C
   ON D.DoctorID = C.DoctorID AND c.ConsultationDate >= DATE(NOW())
GROUP BY D.DoctorID
```

Toate animalele

SELECT P.PetName AS `Pet Name`, CONCAT(U.first_name ,' ', U.last_name) AS Owner , a.AnimalName AS Animal , P.YearOfBirth AS `Birth Year` , P.Color

FROM usercredentials AS U INNER JOIN pet_owners AS PO

   ON U.UserID = PO.UserID

  INNER JOIN pets AS P

   ON P.OwnerID = PO.OwnerID

INNER JOIN animals AS A ON P.Animal_ID = A.Animal_ID

Toate animalele pentru un utilizator specificat

SELECT P.PetName as `Pet Name`,A.AnimalName AS Animal ,P.YearOfBirth as `Birth Year`, P.Color FROM pets P

  INNER JOIN pet_owners PO

   ON P.OwnerID = PO.OwnerID AND PO.UserID = $ownerID

  INNER JOIN animals as A ON P.Animal_ID = A.Animal_ID

Toti clientii si numarul lor de animale

SELECT CONCAT(U.first_name , ' ', U.last_name) AS Name ,U.username AS Username ,COUNT(p.PetID) AS Pets

FROM usercredentials AS U INNER JOIN pet_owners AS PO

   ON U.UserID = PO.UserID

  INNER JOIN pets AS P

   ON P.OwnerID = PO.OwnerID

GROUP BY U.UserID

Toate consultatiile

SELECT CONCAT(U.first_name , ' ', U.last_name) AS Doctor, P.PetName AS `Pet Name`, DATE_FORMAT(C.ConsultationDate,'%d-%m-%Y') AS `Date` FROM consultation AS C

  INNER JOIN doctors AS D

   ON c.DoctorID = d.DoctorID

  INNER JOIN usercredentials AS U

   ON D.UserID = u.UserID

  INNER JOIN pets AS P

```
    ON C.PetID = P.PetID

  INNER JOIN ( SELECT CONCAT(U2.first_name , U2.last_name) , PO2.OwnerID AS PetOwner FROM usercredentials
U2

    INNER JOIN pet_owners PO2 ON U2.UserID = PO2.UserID) AS PO

    ON P.OwnerID = PO.PetOwner

    ORDER BY C.ConsultationDate
```

Istoricul consultatiilor pentru un doctor precizat

```
SELECT CONCAT(UD.first_name , ' ' , UD.last_name) AS Doctor , p.PetName as `Pet Name` ,

    CONCAT(UPO.first_name, ' ', UPO.last_name) AS Owner, DATE_FORMAT(C.ConsultationDate,'%d-%m-%Y') as
Date

FROM consultation AS C

  INNER JOIN doctors AS D

    ON C.DoctorID = D.DoctorID AND C.ConsultationDate <= DATE(NOW())

  INNER JOIN

  ( SELECT UD2.UserID , UD2.first_name , UD2.last_name FROM usercredentials as UD2

  WHERE UD2.UserID = $ownerID ) AS UD

  INNER JOIN pets AS P

    ON C.PetID = P.PetID

  INNER JOIN pet_owners as PO ON P.OwnerID = PO.OwnerID

  INNER JOIN usercredentials AS UPO ON PO.UserID = UPO.UserID

ORDER BY C.ConsultationDate
```

Consultatiile viitoare pentru un doctor precizat

```
SELECT CONCAT(UD.first_name , ' ' , UD.last_name) AS Doctor , UPO.PetName as `Pet Name` ,

    CONCAT(UPO.first_name, ' ', UPO.last_name) AS Owner, DATE_FORMAT(C.ConsultationDate,'%d-%m-%Y') as
Date

FROM consultation AS C

  INNER JOIN doctors AS D

    ON C.DoctorID = D.DoctorID AND C.ConsultationDate >= DATE(NOW())

  INNER JOIN usercredentials as UD

    ON D.UserID = UD.UserID AND UD.UserID = $ownerID
```

```
  INNER JOIN ( SELECT P.PetName , P.PetID , UPO2.first_name , UPO2.last_name FROM pets AS P

    INNER JOIN pet_owners as PO ON P.OwnerID = PO.OwnerID

    INNER JOIN usercredentials AS UPO2 ON PO.UserID = UPO2.UserID

  ) AS UPO

  WHERE C.PetID = UPO.PetID

ORDER BY C.ConsultationDate
```

Consultatiile dintre doua date precizate

```
SELECT CONCAT(UD.first_name , ' ' , UD.last_name) AS Doctor , p.PetName ,

CONCAT(UPO.first_name, ' ', UPO.last_name) AS Owner, DATE_FORMAT(C.ConsultationDate,'%d-%m-%Y') as Date

FROM consultation AS C

  INNER JOIN doctors AS D

    ON C.DoctorID = D.DoctorID AND C.ConsultationDate BETWEEN CAST('" . $date1 . "' AS DATE) AND CAST('" .
$date2 . "' AS DATE)

  INNER JOIN ( SELECT UD2.UserID , UD2.first_name , UD2.last_name FROM usercredentials as UD2

  WHERE UD2.UserID = $ownerID ) AS UD

INNER JOIN pets AS P

ON C.PetID = P.PetID

INNER JOIN pet_owners as PO ON P.OwnerID = PO.OwnerID

INNER JOIN usercredentials AS UPO ON PO.UserID = UPO.UserID

ORDER BY C.ConsultationDate
```

Istoricul consultatiilor pentru un utilizator precizat

```
SELECT P.PetName , CONCAT(U.first_name, ' ',U.last_name) as Doctor , DATE_FORMAT(C.ConsultationDate,'%d-
%m-%Y') AS Date

FROM pets as P INNER JOIN

  ( SELECT C1.ConsultationDate , C1.PetID , C1.DoctorID from consultation as C1

  HAVING  C1.ConsultationDate <= DATE(NOW()) ) as C

    ON C.PetID = P.PetID
```

INNER JOIN doctors as D

  ON C.DoctorID = D.DoctorID

INNER JOIN usercredentials as U

  ON U.UserID = D.UserID

INNER JOIN pet_owners as PO on P.OwnerID = PO.OwnerID

INNER JOIN usercredentials U2 on PO.UserID = U2.UserID AND U2.UserID = $ownerID

ORDER BY c.ConsultationDate

Consultatii viitoare pentru utilizator

SELECT C.ConsultationID as ID,P.PetName , CONCAT(U.first_name,' ',U.last_name) as Doctor , DATE_FORMAT(C.ConsultationDate,'%d-%m-%Y') AS Date

FROM pets as P INNER JOIN

 (SELECT C1.ConsultationDate , C1.PetID , C1.DoctorID, C1.ConsultationID from consultation as C1

 HAVING C1.ConsultationDate >= DATE(NOW())) as C

  ON C.PetID = P.PetID

 INNER JOIN doctors as D

  ON C.DoctorID = D.DoctorID

 INNER JOIN usercredentials as U

  ON U.UserID = D.UserID

INNER JOIN pet_owners as PO on P.OwnerID = PO.OwnerID

INNER JOIN usercredentials U2 on PO.UserID = U2.UserID AND U2.UserID = $ownerID

ORDER BY C.ConsultationDate