# Laravel 8 CRUD

Laborator dedicate lui CRUD (Creare, Read, Update, and Delete), un ghid pas cu pas cu exemple care îi pot ajuta pe începători. Elementele de bază în Laravel sunt legate de creare, citire, actualizare și ștergere.

Pas1. Creare aplicație laravel prin scrierea în cmd a comenzii composer create-project --prefer-dist laravel/laravel crud

Pas2. Intarea în aplicație cu comanda: cd crud

Pas3. In cmd se scrie comanda php artisan serve

Rezultat

Starting Laravel development server: <a href="http://127.0.0.1:8000">http://127.0.0.1:8000</a>

Pas4. Se lansează browserul și se scrie: http://127.0.0.1:8000

Pas5 : instalăm pachetul Laravel Collective, rulați următoarea comandă de mai jos:

composer require laravelcollective/html

Pas6. Creare în MySql a bazei de date exlara2021

Pas7. În fițierul .env se fac modificările care ne ajută se ne conectăm la baza de date *exlara2021* creată în mysql se fac modificările

APP\_NAME=Laravel
APP\_ENV=local
APP\_KEY=base64:RYmyRP/TkuB1T067j8papal8mTSo9aVKuVgedJNV97Y=
APP\_DEBUG=true
APP\_URL=http://localhost

LOG\_CHANNEL=stack
LOG\_DEPRECATIONS\_CHANNEL=null
LOG\_LEVEL=debug

DB\_CONNECTION=mysql
DB\_HOST=127.0.0.1
DB\_PORT=3306
DB\_DATABASE=exlara2021
DB\_USERNAME=root
DB\_PASSWORD=

BROADCAST\_DRIVER=log

```
CACHE_DRIVER=file
FILESYSTEM_DRIVER=local
QUEUE_CONNECTION=sync
SESSION_DRIVER=file
SESSION_LIFETIME=120
```

Pas3. Se modifică fișierul database.php existent în subdirectorul /config astfel

### Fișierul database.php

Obs. În fișierul database.php se modifică valorile din liniile

### Pas4. În fereastra cmd se execută comenzile

```
php artisan cache:clear
php artisan config:cache
```

# Pas8. Configurare migrare

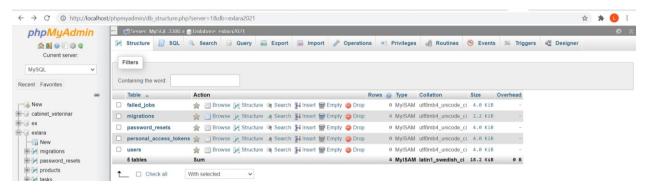
- personalizare tabelul Users, adăugare câmpul nume în autentificare. Iată migrațiile complete de mai jos:

```
<?php
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
class CreateUsersTable extends Migration
{
  * Run the migrations.
  * @return void
  public function up()
    Schema::create('users', function (Blueprint $table) {
      $table->id();
      $table->string('name')->nullable();
      $table->string('email')->unique();
      $table->string('username')->unique();
      $table->timestamp('email_verified_at')->nullable();
      $table->string('password');
      $table->rememberToken();
      $table->timestamps();
    });
  }
  * Reverse the migrations.
  * @return void
```

```
*/
public function down()
{
    Schema::dropIfExists('users');
}
```

### Pas9.php artisan migrate

## Efect: Efectul pasului 9 este in MySql apare



#### În caz de eroare:

SQLSTATE[42S01]: Base table or view already exists: 1050 Table 'users' already exists (SQL: create table 'users' ('id' bigint unsigned not null auto\_increment primary key, 'name' varchar(191) null, 'email' varchar(191) not null, 'username' varchar(191) not null, 'email\_verified\_at' timestamp null, 'password' varchar(191) not null, 'remember\_token' varchar(100) null, 'created\_at' timestamp null, 'updated\_at' timestamp null) default character set utf8mb4 collate 'utf8mb4\_unicode\_ci')

#### Se rezolvă astfel

```
// Modificare /app/Providers/AppServiceProvider.php:

use Illuminate\Support\Facades\Schema;

public function boot()
{
    Schema::defaultStringLength(191);
}

//ON this error
// PDOException::("SQLSTATE[42S01]: Base table or view already exists: 1050 Table 'users' already exists")
// After run -> php artisan migrate:fresh <-! Note this will reset all tables in db</pre>
```

În directorul app/ a fișierului User.php în care se introduce codul sursă următor:

```
<?php
namespace App\Models;
use Illuminate\Contracts\Auth\MustVerifyEmail;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;
use Laravel\Sanctum\HasApiTokens;
class User extends Authenticatable
  use HasApiTokens, HasFactory, Notifiable;
  /**
  * The attributes that are mass assignable.
  * @var string[]
  protected $fillable = [
    'name',
    'email',
'username',
    'password',
 ];
  * The attributes that should be hidden for serialization.
  * @var array
  */
  protected $hidden = [
    'password',
    'remember_token',
 ];
  /**
  * The attributes that should be cast.
  * @var array
  protected $casts = [
    'email_verified_at' => 'datetime',
 public function setPasswordAttribute($value)
```

```
$this->attributes['password'] = bcrypt($value);
}
```

# Pas10. Rute de operare CRUD în fițierul "routes/web.php"

```
Route::group(['namespace' => 'App\Http\Controllers'], function()
{
    /**
    * User Routes
    */
    Route::group(['prefix' => 'users'], function() {
        Route::get('/', 'UsersController@index')->name('users.index');
        Route::get('/create', 'UsersController@create')->name('users.create');
        Route::post('/create', 'UsersController@store')->name('users.store');
        Route::get('/{user}/show', 'UsersController@show')->name('users.show');
        Route::get('/{user}/edit', 'UsersController@edit')->name('users.edit');
        Route::patch('/{user}/update', 'UsersController@update')->name('users.update');
        Route::delete('/{user}/delete', 'UsersController@destroy')->name('users.destroy');
    });
});
```

#### Pas 10. Creare Controler

php artisan make:controller UsersController

în directorul ..\crud\app\Http\Controllers apare fișierul UsersController în care se adaugă 7 metode care vor finaliza operațiunea de creare, citire, actualizare și ștergere în Laravel 8.

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

use App\Models\User;
use App\Http\Requests\StoreUserRequest;
use App\Http\Requests\UpdateUserRequest;

class UsersController extends Controller
{
    /**
    * afisează toti users</pre>
```

```
* @return \Illuminate\Http\Response
public function index()
  $users = User::latest()->paginate(10);
  return view('users.index', compact('users'));
}
* Afisare form pt creare user
* @return \Illuminate\Http\Response
public function create()
  return view('users.create');
}
* Memorare un user creat acum
* @param User $user
* @param StoreUserRequest $request
* @return \Illuminate\Http\Response
public function store(User $user, StoreUserRequest $request)
  //Numai în scopuri demonstrative. La crearea unui utilizator sau la invitarea unui utilizator
  // ar trebui să creați o parolă aleatorie generată și să o trimiteți prin e-mail utilizatorului
  $user->create(array_merge($request->validated(), [
    'password' => 'test'
  ]));
  return redirect()->route('users.index')
    ->withSuccess(__('User created successfully.'));
}
* Afisare date user
* @param User $user
* @return \Illuminate\Http\Response
public function show(User $user)
```

```
return view('users.show', [
    'user' => $user
  ]);
}
* Creare date user
* @param User $user
* @return \Illuminate\Http\Response
*/
public function edit(User $user)
  return view('users.edit', [
    'user' => $user
  ]);
}
* Update date user
* @param User $user
* @param UpdateUserRequest $request
* @return \Illuminate\Http\Response
public function update(User $user, UpdateUserRequest $request)
  $user->update($request->validated());
  return redirect()->route('users.index')
    ->withSuccess(__('User updated successfully.'));
}
* Stergere date user
* @param User $user
* @return \Illuminate\Http\Response
public function destroy(User $user)
  $user->delete();
  return redirect()->route('users.index')
```

```
->withSuccess(__('User deleted successfully.'));
}
}
}
```

```
Pas11. Creare layouts de tip crud blades. View are următoare directoare și fișiere îr resources\views
layouts/app-master.blade.php
layouts/partials/navbar.blade.php
layouts/partials/messages.blade.php
users/create.blade.php
users/edit.blade.php
users/index.blade.php
users/show.blade.php
```

Pagina principală este resources/views /layouts/app-master.blade.php

```
<!doctype html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Lista Sarcini</title>
  <!-- Bootstrap CSS File -->
      <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <!-- The above 2 meta tags *must* come first in the head; any other head content must come *after*
these tags -->
 <meta name="description" content="">
 <meta name="author" content="">
 </head>
<body>
<div class="container">
  <nav class="navbar navbar-default">
   <div class="container-fluid">
     <div class="navbar-header">
       <a class="navbar-brand" href="#">Exemplu aplicatie-Laravel CRUD </a>
```

# resources/views/layouts/partials/navbar.blade.php

# resources/views/layouts/partials/messages.blade.php

```
<i class="fa fa-check"></i>
{{ $data }}

</div>
@endif
@endif
```

#### resources/views/users/index.blade.php

```
@extends('layouts.app-master')
@section('content')
 <div class="bg-light p-4 rounded">
  <h1>Users</h1>
   <div class="lead">
    Manage your users here.
    <a href="{{ route('users.create') }}" class="btn btn-primary btn-sm float-right">Add new
user</a>
  </div>
  <div class="mt-2">
    @include('layouts.partials.messages')
   </div>
  <thead>
    #
      Name
      Email
      Username
     </thead>
    @foreach($users as $user)
       {{ $user->id }}
        {{ $user->name }}
        {{ $user->email }}
        {{ $user->username }}
        <a href="{{ route('users.show', $user->id) }}" class="btn btn-warning btn-
sm">Show</a>
        <a href="{{ route('users.edit', $user->id) }}" class="btn"
                                                          btn-info
                                                                 btn-
sm">Edit</a>
        {!!
              Form::open(['method' => 'DELETE','route' => ['users.destroy',
                                                                $user-
>id],'style'=>'display:inline']) !!}
```

```
{!! Form::submit('Delete', ['class' => 'btn btn-danger btn-sm']) !!}
{!! Form::close() !!}

</ta>

</ta>
```

# resources/views/users/create.blade.php

```
@extends('layouts.app-master')
@section('content')
 <div class="bg-light p-4 rounded">
    <h1>Add new user</h1>
    <div class="lead">
      Add new user and assign role.
    </div>
    <div class="container mt-4">
      <form method="POST" action="">
        @csrf
        <div class="mb-3">
          <label for="name" class="form-label">Name</label>
          <input value="{{ old('name') }}"
            tvpe="text"
            class="form-control"
            name="name"
            placeholder="Name" required>
          @if ($errors->has('name'))
            <span class="text-danger text-left">{{ $errors->first('name') }}</span>
          @endif
        </div>
        <div class="mb-3">
          <label for="email" class="form-label">Email</label>
          <input value="{{ old('email') }}"
            type="email"
            class="form-control"
            name="email"
```

```
placeholder="Email address" required>
          @if ($errors->has('email'))
            <span class="text-danger text-left">{{ $errors->first('email') }}</span>
          @endif
        </div>
        <div class="mb-3">
          <label for="username" class="form-label">Username</label>
          <input value="{{ old('username') }}"
            type="text"
            class="form-control"
            name="username"
            placeholder="Username" required>
          @if ($errors->has('username'))
            <span class="text-danger text-left">{{ $errors->first('username') }}</span>
          @endif
        </div>
        <button type="submit" class="btn btn-primary">Save user</button>
        <a href="{{ route('users.index') }}" class="btn btn-default">Back</a>
      </form>
    </div>
 </div>
@endsection
```

### resources/views/users/show.blade.php

```
@extends('layouts.app-master')
@section('content')
 <div class="bg-light p-4 rounded">
    <h1>Update user</h1>
    <div class="lead">
    </div>
    <div class="container mt-4">
      <form method="post" action="{{ route('users.update', $user->id) }}">
        @method('patch')
        @csrf
        <div class="mb-3">
          <label for="name" class="form-label">Name</label>
          <input value="{{ $user->name }}"
            type="text"
            class="form-control"
            name="name"
            placeholder="Name" required>
          @if ($errors->has('name'))
            <span class="text-danger text-left">{{ $errors->first('name') }}</span>
          @endif
        </div>
        <div class="mb-3">
          <label for="email" class="form-label">Email</label>
          <input value="{{ $user->email }}"
            type="email"
            class="form-control"
            name="email"
            placeholder="Email address" required>
          @if ($errors->has('email'))
```

```
<span class="text-danger text-left">{{ $errors->first('email') }}</span>
          @endif
        </div>
        <div class="mb-3">
          <label for="username" class="form-label">Username</label>
          <input value="{{ $user->username }}"
            type="text"
            class="form-control"
            name="username"
            placeholder="Username" required>
          @if ($errors->has('username'))
            <span class="text-danger text-left">{{ $errors->first('username') }}</span>
          @endif
        </div>
        <button type="submit" class="btn btn-primary">Update user</button>
        <a href="{{ route('users.index') }}" class="btn btn-default">Cancel</button>
      </form>
    </div>
  </div>
@endsection
```

În /app/Providers/AppServiceProvider.php se fac modificările

```
/**
 * Bootstrap any application services.
 *
 * @return void
 */
 public function boot()
 {

Schema::defaultStringLength(191);
Paginator::useBootstrap();

}
}
```

#### În caz de eroare

```
php artisan config:cache
php artisan cache:clear
php artisan route:cache
```

### Pasul 12: Adăugați solicitări

În UsersController, s-a implementat o cerere specifică pentru fiecare acțiune, aceasta va ajuta să se scurteze codul și definire funcții și verificarea într-o altă clasă.

Se rulează im cmd următoarele comenzi:

php artisan make:request StoreUserRequest

php artisan make:request UpdateUserRequest

efect apar în ..\app\Http\Requests fișierele

StoreUserRequest.php

```
<?php

namespace App\Http\Requests;

use Illuminate\Foundation\Http\FormRequest;

class StoreUserRequest extends FormRequest
{</pre>
```

```
/**

* Determine if the user is authorized to make this request.

*

* @return bool

*/
public function authorize()
{
    return true;
}

/**

* Get the validation rules that apply to the request.

*

* @return array

*/
public function rules()
{
    return [
        'name' => 'required',
        'email' => 'required | email:rfc,dns | unique:users,email',
        'username' => 'required | unique:users,username',
        ];
    }
}
```

## UpdateUserRequest.php

```
<?php
namespace App\Http\Requests;
use Illuminate\Foundation\Http\FormRequest;
class UpdateUserRequest extends FormRequest
{
    /**
    * Determine if the user is authorized to make this request.
    *
    * @return bool
    */
    public function authorize()
    {
</pre>
```

```
return true;
}

/**

* Get the validation rules that apply to the request.

*

* @return array

*/
public function rules()
{

$user = request()->route('user');

return [
    'name' => 'required',
    'email' => 'required|email:rfc,dns|unique:users,email,'.$user->id,
    'username' => 'required|unique:users,username,'.$user->id,

];
}
}
```