1.Implement request validation for a registration form that contains the following fields: name, email, and password. Validate the following rules:

name: required, string, minimum length 2.

email: required, valid email format.

password: required, string, minimum length 8.

```
MI README.md
                     # web.php
                                Demomiddleware.php
             use Illuminate\Http\Request;
practi
             use Illuminate\Support\Facades\Validator;
  v 🗀 ар
    > 🗀
    >
             class ArticleController extends Controller
    v 🗅
                 function DemoAction(Request $request):JsonResponse
                     $from= Validator::make($request->header(),[
                        'name'=>'required|string|min:2',
                        'email'=>'required|email',
                        'password'=>'required|string|min:8'
                     if($from->fails()){
                       $email=$request->header('email');
    >
    > 🗀
```

2. Create a route /home that redirects to /dashboard using a 302 redirect.

```
practiceProject F:\PHP\Week-15\pra
                                use App\Http\Controllers\ArticleController;
                                use Illuminate\Support\Facades\Route;
> 🗀 Console
> 🗀 Exceptions
 ∨ 🗀 Http

∨ □ Controllers

                                I Web Routes

    ArticleController.php

      © Controller.php

∨ □ Middleware

    Authenticate.php

      © Demomiddleware.php
      © EncryptCookies.php
      © PreventRequestsDuringl 15
      © RedirectIfAuthenticated. 16 //
      © TrimStrings.php
      © TrustHosts.php
      © TrustProxies.php
      © ValidateSignature.php
      VerifyCsrfToken.php
                            21 Route::get( uri: '/home',[ArticleController::class,'DemoAction1']);
                                Route::get( uri: '/dashboard',[ArticleController::class,'DemoAction2']);
  Models
 > Providers
bootstrap
```

```
racticeProject F:\PHP\Week-15\pra
app
Console
                              class ArticleController extends Controller

∨ □ Controllers

                                  * @param Request $request

    ArticleController.php

                                * @return_\Illuminate\Contracts\Foundation\Application|\Illuminate\Http\RedirectRes
    © Controller.php

∨ ☐ Middleware

    O Authenticate.php
    © Demomiddleware.php
    © EncryptCookies.php
    © PreventRequestsDuringl
    © RedirectIfAuthenticated.
    © TrimStrings.php
                                 function DemoAction2(Request $request): JsonResponse
    © TrustHosts.php
    © TrustProxies.php
    ValidateSignature.php
    VerifyCsrfToken.php
 Models
```

3. Create a global middleware that logs the request method and URL for every incoming request. Log the information to the Laravel log file

```
# web.php
                     MJ README.md

    ArticleController.php

                                                                       (C) Kernel.php
                                                                                     O Demomiddleware.php ×
ject F:\PHP\Week-15\pre
le
tions
                                   * @param \Closure(\Illuminate\Http\Request): (\Illuminate\Http\Response|\Ill
                                   * @return \Illuminate\Http\Response|\Illuminate\Http\RedirectResponse
ntrollers
ArticleController.php
                                  public function handle(Request $request, Closure $next)
Controller.php
Authenticate.php
Demomiddleware.php
EncryptCookies.php
PreventRequestsDuringl 23
                                     Log::info(['request'=>$logdata]);
RedirectlfAuthenticated
TrimStrings.php
TrustHosts.php
TrustProxies.php
```

```
racticeProject F:\PHP\Week-15\pro
app
Console
Exceptions
Http
Controllers
Controller.php
Control
```

```
M\downarrow README.md \stackrel{\#}{=} web.php \stackrel{\textcircled{}}{=} ArticleController.php \stackrel{\textcircled{}}{=} Kernel.php \times \stackrel{\textcircled{}}{=} Demomiddleware.php
practiceProject F:\PHP\Week-15\pra
арр
 Console
                                               protected $middlewareGroups = [

∨ □ Controllers

    ArticleController.php

                                                          \App\Http\Middleware\Demomiddleware::class,
       © Controller.php
                                                          \App\Http\Middleware\EncryptCookies::class,

∨ ☐ Middleware

                                                         \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
       O Authenticate.php
                                                         \Illuminate\Session\Middleware\StartSession::class,
       © Demomiddleware.php
                                                         \Illuminate\View\Middleware\ShareErrorsFromSession::class,
       © EncryptCookies.php
       © PreventRequestsDuringl
       © RedirectlfAuthenticated.
       © TrustHosts.php
       © TrustProxies.php
       O ValidateSignature.php
       C VerifyCsrfToken.php
```

4.Create a route group for authenticated users only. This group should include routes for /profile and /settings. Apply a middleware called AuthMiddleware to the route group to ensure only authenticated users can access these routes.

```
© Kernel.php © Demomiddleware.php
eProject F:\PHP\Week-15\pra
Console
Controllers

    ArticleController.php

 © Controller.php
Authenticate.php
 © EncryptCookies.php
 PreventRequestsDuringl
 © RedirectlfAuthenticated.
 © TrimStrings.php
   TrustHosts.php
 © TrustProxies.php
  ValidateSignature.php
```

```
M↓ README.md
                                  web.php

    Demomiddleware.php

ect F:\PHP\Week-15\pra
                     8  use Illuminate\Http\Request;
tions
                     11 class ArticleController extends Controller
ntrollers
ArticleController.php
                              function DemoAction(Request $request){
Controller.php
ldleware
Authenticate.php
Demomiddleware.php
EncryptCookies.php
PreventRequestsDuringl
RedirectlfAuthenticated.
TrimStrings.php
```

5.Create a controller called ProductController that handles CRUD operations for a resource called Product. Implement the following methods:

index(): Display a list of all products.

create(): Display the form to create a new product.

store(): Store a newly created product.

edit(\$id): Display the form to edit an existing product.

update(\$id): Update the specified product.

destroy(\$id): Delete the specified product.

```
Project ~
                                                use Appymery Controllers (Froudoccontroller,

    practiceProject F:\PHP\Week-15\practice

    > 🗀 Console
    > 🗎 Exceptions
   Http
            © ArticleController.php
            © Controller.php
            © ProductController.php

∨ Image: Middleware

    Authenticate.php

            © Demomiddleware.php
            © EncryptCookies.php
            © PreventRequestsDuringl
           RedirectlfAuthenticated.
            © TrimStrings.php
            © TrustProxies.php
            O ValidateSignature.php
            © VerifyCsrfToken.php
```

```
practiceProject Version control V
                                                                                                         Current File V
                             M4 README.md ## web.php © Kernel.php © ProductController.php × © Demomiddleware.php
practiceProject F:\PHP\Week-15\pra
 арр
 Console
  ArticleController.php
       © Controller.php
       © ProductController.php

∨ ☐ Middleware

       Authenticate.php
       © Demomiddleware.php
       © EncryptCookies.php
       © PreventRequestsDuringl
                                          public function store(Request $request)
       © RedirectIfAuthenticated.
       © TrimStrings.php
       © TrustHosts.php
       © TrustProxies.php
       © ValidateSignature.php
       © VerifyCsrfToken.php
  Providers
bootstrap
config
🗀 database
🗀 lang
```

```
Project ~
                                     M↓ README.md # web.php © Kernel.php
                                                                              © ProductController.php × © Demomiddleware.php

→ practiceProject F:\PHP\Week-15\pra

   v 🗀 арр
     > 🗀 Console
                                                       return "show";
     > 🗀 Exceptions

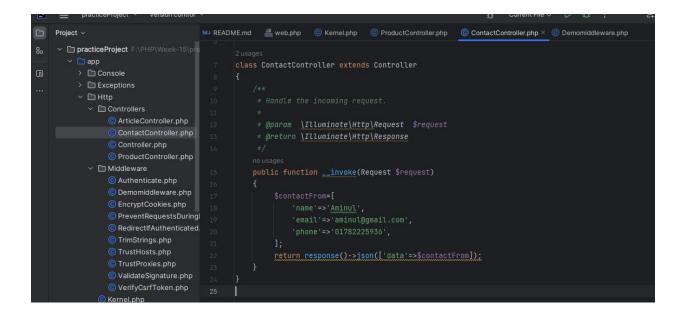
∨ □ Http

             © ArticleController.php
             © Controller.php
             © ProductController.php

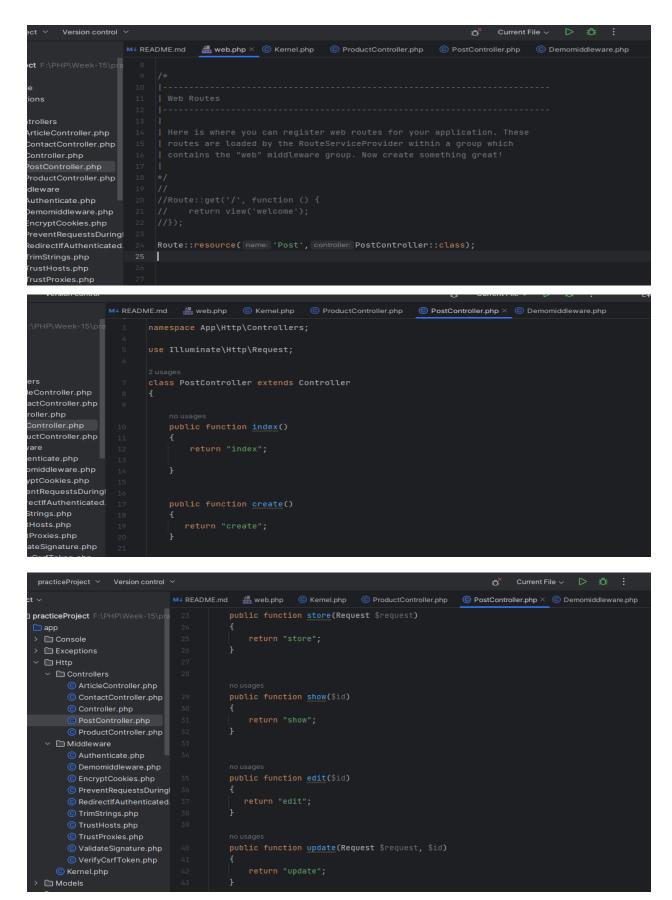
∨ ☐ Middleware

             © Authenticate.php
                                                  public function update(Request $request, $id)
             © Demomiddleware.php
             © EncryptCookies.php
             © PreventRequestsDuringl
             © RedirectIfAuthenticated.
             © TrimStrings.php
             © TrustHosts.php
             © TrustProxies.php
             © ValidateSignature.php
             © VerifyCsrfToken.php
```

6.Create a single action controller called ContactController that handles a contact form submission. Implement the __invoke() method to process the form submission and send an email to a predefined address with the submitted data.



7.Create a resource controller called PostController that handles CRUD operations for a resource called Post. Ensure that the controller provides the necessary methods for the resourceful routing conventions in Laravel.



```
cryptCookies.php 44
ventRequestsDuring| 45
directIfAuthenticated. no usages
mStrings.php 46 public function destroy($id)
stHosts.php 47 {
stProxies.php 48 return "destroy";
idateSignature.php 49 }
rifyCsrfToken.php 50 }
```

8. Create a Blade view called welcome.blade.php that includes a navigation bar and a section displaying the text "Welcome to Laravel!".

```
\frac{d}{dt}
 web.php \times 
\frac{d}{dt}
 welcome.blade.php 
\frac{d}{dt}
 hello.blade.php
       © TrustHosts.php
        TrustProxies.php
       © ValidateSignature.php
       O VerifyCsrfToken.php
    © Kernel.php
☐ Models
Providers
bootstrap
config
database
public
 resources
 css
 □ views
    # hello.blade.php
# welcome.blade.php
 routes
 🏭 api.php
```

```
© ArticleController.php × <sup>◢</sup>/<sub>□</sub> web.php
                              M↓ README.md
                                                                                  a welcome.blade.php
                                                                                                       a hello.blade.php
     © TrustHosts.php
     © TrustProxies.php
                                    namespace App\Http\Controllers;
     © ValidateSignature.php
     © VerifyCsrfToken.php
  © Kernel.php
Models
Providers
                                    use Illuminate\Http\Request;
bootstrap
config
database
lang
                                   class ArticleController extends Controller
public
css
                                         function page(Request $request){
uiews
   提 hello.blade.php
                                             return view( view: 'hello');
  owelcome.blade.php
```

```
□ Project ∨
                                    <!DOCTYPE html>
             © ValidateSignature.php
© VerifyCsrfToken.php
                                     <head>
                                             background-color: #f2f2f2;
      > 🗀 database
                                           .navbar a {
                                              margin-right: 10px;
                                             margin-top: 20px;
          # hello.blade.php
# welcome.blade.php
         api.php
] public
                                     <body>
] resources
                                     <div class="navbar">
□ css
                                         <a href="#">Home</a>
🗀 js
                                         <a href="#">About</a>
uiews
                                     o <a href="#">Contact</a>
   all hello.blade.php
```

<h1>Welcome to Laravel!</h1>

</div>

a welcome.blade.php

) routes

api.php
channels.php
console.php
web.php