Doctor Appointment System
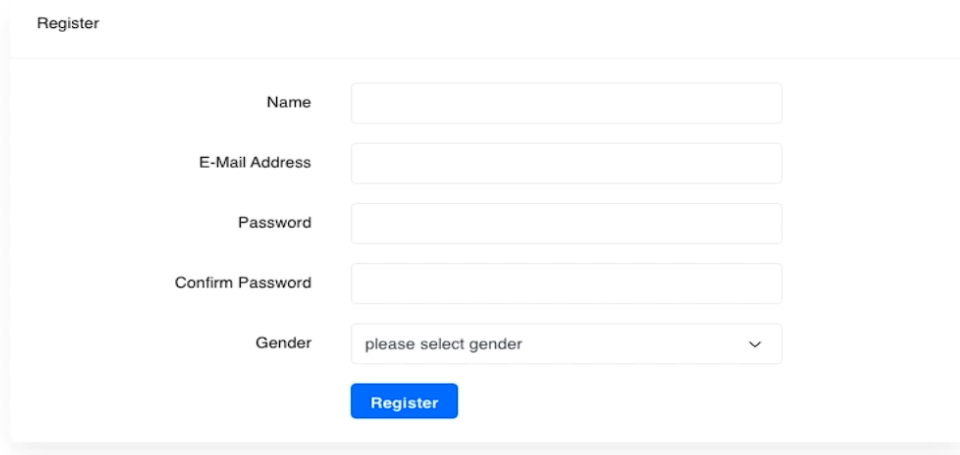
Source code: https://github.com/bubigit/INSOK-proekt

Project report:

Doctor appointment application serves for making appointments online so you could visit your doctor. For this project we will need three types of users: admin, doctor, patient. Admin can add doctors in the systems, doctors can create time slots for appointments and make prescriptions, patients can create their own profiles and make doctor appointments, after that they can view their prescription.
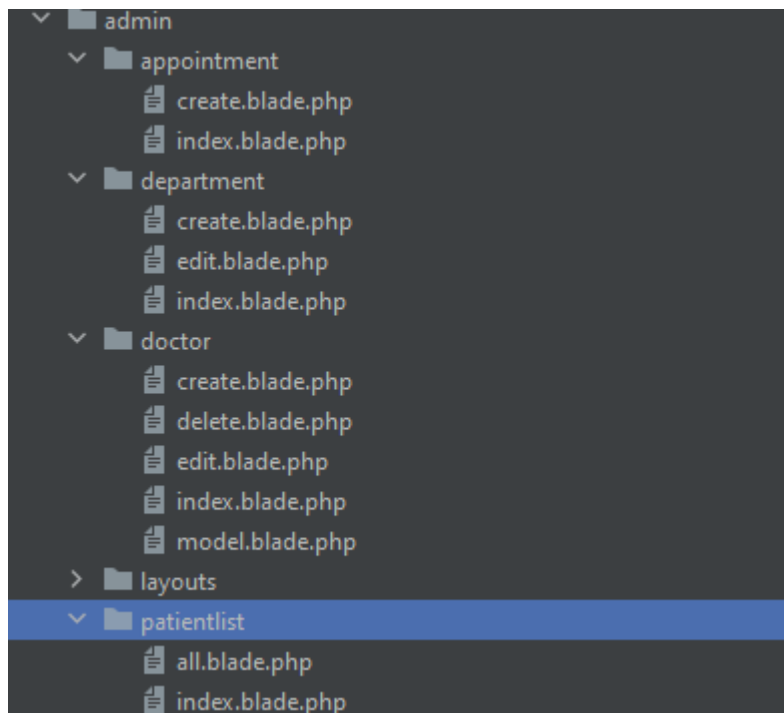
Here are the project scenarios:

-    Admin, doctor, patients

This is how the registration form looks like. This is used only for patients, admin account is pre-created and doctors are added only from admin panel.

These are all necessary views for admin panel. I will paste some code as an example, it will be for listing all doctors.

```blade
@extends('admin.layouts.master')

@section('content')

<div class="page-header">
<div class="row align-items-end">
    <div class="col-lg-8">
        <div class="page-header-title">
            <i class="ik ik-inbox bg-blue"></i>
            <div class="d-inline">
                <h5>Doctors</h5>
                <span>list of all doctors</span>
            </div>
        </div>
    </div>
    <div class="col-lg-4">
        <nav class="breadcrumb-container" aria-label="breadcrumb">
            <ol class="breadcrumb">
                <li class="breadcrumb-item">
                    <a href="../index.html"><i class="ik ik-home"></i></a>
                </li>
                <li class="breadcrumb-item">
                    <a href="#">Doctors</a>
                </li>
                <li class="breadcrumb-item active" aria-
current="page">Index</li>
            </ol>
        </nav>
    </div>
</div>
</div>
```

```
<div class="row">
<div class="col-md-12">
        @if(Session::has('message'))
            <div class="alert bg-success alert-success text-white"
role="alert">
                {{Session::get('message')}}
            </div>
        @endif
    <div class="card">
        <div class="card-header"><h3>Data Table</h3>

        </div>
        <div class="card-body">
            <table id="data_table" class="table">
                <thead>
                    <tr>
                        <th>Name</th>
                        <th class="nosort">Avatar</th>
                        <th>Email</th>
                        <th>Address</th>
                        <th>Phone number</th>
                        <th>Department</th>
                        <th class="nosort"> </th>
                        <th class="nosort"> </th>
                    </tr>
                </thead>
                <tbody>
                    @if(count($users)>0)
                    @foreach($users as $user)
                    <tr>
                        <td>{{$user->name}}</td>
                        <td><img src="{{asset('images')}}/{{$user->image}}"
class="table-user-thumb" alt=""></td>
                        <td>{{$user->email}}</td>
                        <td>{{$user->address}}</td>
                        <td>{{$user->phone_number}}</td>
                        <td>{{$user->department}}</td>
                        <td>
                            <div class="table-actions">
                                <a href="#" data-toggle="modal" data-
target="#exampleModal{{$user->id}}">
                                    <i class="ik ik-eye"></i>
                                </a>
                                <a href="{{route('doctor.edit',[$user-
>id])}}"><i class="ik ik-edit-2"></i></a>

                                <a href="{{route('doctor.show',[$user-
>id])}}">

                                    <i class="ik ik-trash-2"></i>
                                </a>

                            </div>
                        </td>
                        <td>x</td>

                    </tr>

                    <!-- View Modal -->
                    @include('admin.doctor.model')
```
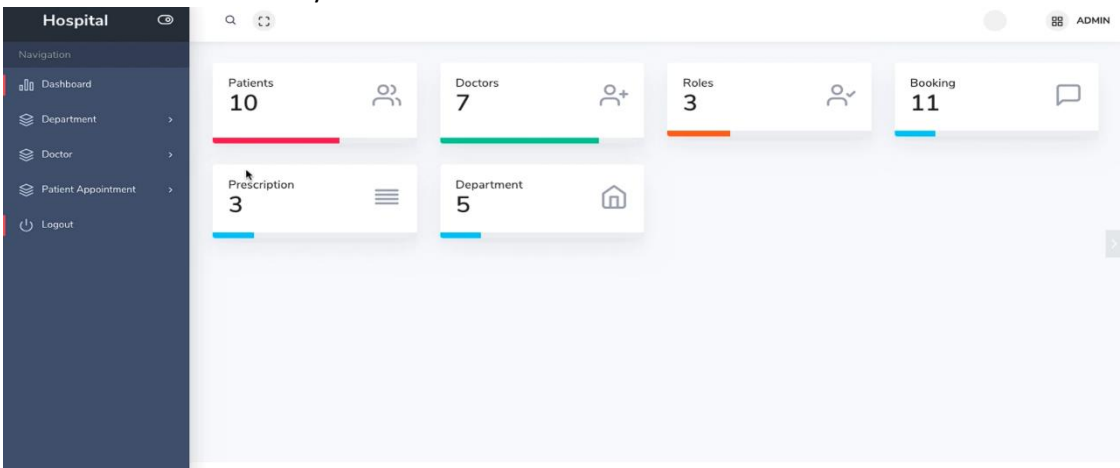
```
                @endforeach

                @else
                <td>No user to display</td>
                @endif

            </tbody>
        </table>
    </div>
</div>
</div>
</div>
@endsection
```

- Admin add doctor in the system

On this picture we can see the admin login panel. We can create new departments, add doctors and check patients appointments.

```
Here is some code example for that:

@extends('admin.layouts.master')

@section('content')

<div class="page-header">
    <div class="row align-items-end">
        <div class="col-lg-8">
            <div class="page-header-title">
                <i class="ik ik-command bg-blue"></i>
                <div class="d-inline">
                    <h5>Doctors</h5>
                    <span>add doctor</span>
                </div>
            </div>
        </div>
    <div class="col-lg-4">
        <nav class="breadcrumb-container" aria-label="breadcrumb">
            <ol class="breadcrumb">
```

```html
                    <li class="breadcrumb-item">
                        <a href="../index.html"><i class="ik ik-home"></i></a>
                    </li>
                    <li class="breadcrumb-item"><a href="#">Doctor</a></li>
                    <li class="breadcrumb-item active" aria-
current="page">Create</li>
                </ol>
            </nav>
        </div>
        </div>
</div>

<div class="row justify-content-center">
    <div class="col-lg-10">
        @if(Session::has('message'))
            <div class="alert bg-success alert-success text-white"
role="alert">
                {{Session::get('message')}}
            </div>
        @endif

    <div class="card">
    <div class="card-header"><h3>Add doctor</h3></div>
    <div class="card-body">
        <form class="forms-sample" action="{{route('doctor.store')}}"
method="post" enctype="multipart/form-data" >@csrf
            <div class="row">
                <div class="col-lg-6">
                    <label for="">Full name</label>
                    <input type="text" name="name" class="form-control
@error('name') is-invalid @enderror" placeholder="doctor name" value="
{{old('name')}}">
                        @error('name')
                                <span class="invalid-feedback" role="alert">
                                    <strong>{{ $message }}</strong>
                                </span>
                            @enderror
                </div>
                <div class="col-lg-6">
                    <label for="">Email</label>
                    <input type="email" name="email" class="form-control
@error('email') is-invalid @enderror" placeholder="email"value="
{{old('email')}}">
                        @error('email')
                                <span class="invalid-feedback" role="alert">
                                    <strong>{{ $message }}</strong>
                                </span>
                            @enderror
                </div>
            </div>

            <div class="row">
                <div class="col-lg-6">
                    <label for="">Password</label>
                    <input type="password" name="password" class="form-control
@error('password') is-invalid @enderror" placeholder="doctor password">
                        @error('password')
                                <span class="invalid-feedback" role="alert">
                                    <strong>{{ $message }}</strong>
                                </span>
                            @enderror
```

```html
                    </div>
                <div class="col-lg-6">
                    <label for="">Gender</label>
                    <select class="form-control @error('gender') is-invalid
@enderror" name="gender">
                            <option value="">select</option>
                    <option value="male">Male</option>
                    <option value="female">Female</option>
                </select>
                        @error('gender')
                            <span class="invalid-feedback" role="alert">
                                <strong>{{ $message }}</strong>
                            </span>
                        @enderror
            </div>
        </div>

            <div class="row">
                <div class="col-lg-6">
                    <label for="">Education</label>
                    <input type="text" name="education" class="form-control
@error('education') is-invalid @enderror" placeholder="doctor highest
degree" value="                {{old('education')}}">
                        @error('education')
                            <span class="invalid-feedback" role="alert">
                                <strong>{{ $message }}</strong>
                            </span>
                        @enderror
            </div>
                <div class="col-lg-6">
                    <label for="">Address</label>
                    <input type="text" name="address" class="form-control
@error('address') is-invalid @enderror" placeholder="doctor address"
value="{{old('address')}}">
                        @error('address')
                            <span class="invalid-feedback" role="alert">
                                <strong>{{ $message }}</strong>
                            </span>
                        @enderror
            </div>
        </div>

            <div class="row">
                <div class="col-md-6">
                    <div class="form-group">
                        <label for="">Specialist</label>
                        <select name="department" class="form-control">
                            <option value="">Please select</option>

                            @foreach(App\Department::all() as $d)
                                <option value="{{$d->department}}">{{$d-
>department}}</option>
                            @endforeach
                        </select>


                        @error('department')
                                <span class="invalid-feedback"
role="alert">

                                    <strong>{{ $message }}</strong>
                                </span>
```

```
                                    @enderror

                        </div>
                    </div>

                    <div class="col-md-6">
                        <div class="form-group">
                            <label for="">Phone number</label>
                            <input type="text" name="phone_number" class="form-
control @error('phone_number') is-invalid @enderror"value="
{{old('phone_number')}}">
                                @error('phone_number')
                                    <span class="invalid-feedback"
role="alert">

                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror

                        </div>
                    </div>

                </div>
                <div class="row">
                    <div class="col-md-6">
                            <div class="form-group">
                        <label>Image</label>
                            <input type="file" class="form-control file-upload-
info @error('image') is-invalid @enderror"  placeholder="Upload Image"
name="image">
                            <span class="input-group-append">

                            </span>
                             @error('image')
                                    <span class="invalid-feedback"
role="alert">

                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                    </div>
                </div>
                    <div class="col-md-6">
                        <label>Role</label>
                        <select name="role_id" class="form-control
@error('role_id') is-invalid @enderror">
                            <option value="">Please select role</option>
@foreach(App\Role::where('name','!=','patient')->get() as $role)
                            <option value="{{$role->id}}">{{$role-
>name}}</option>
                        @endforeach

                        </select>
                         @error('role_id')
                                    <span class="invalid-feedback"
role="alert">

                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                    </div>
                </div>
```

```
            <div class="form-group">
                <label for="exampleTextarea1">About</label>
                <textarea class="form-control @error('description') is-
invalid @enderror" id="exampleTextarea1" rows="4" name="description">
                {{old('description')}}

                </textarea>
                    @error('description')
                        <span class="invalid-feedback" role="alert">
                            <strong>{{ $message }}</strong>
                        </span>
                    @enderror
            </div>
                <button type="submit" class="btn btn-primary mr-
2">Submit</button>
                <button class="btn btn-light">Cancel</button>


            </form>
        </div>
     </div>
   </div>
</div>


@endsection
```

- Doctor can make appointment time slot

If you are logged in as doctor, you can choose specific date and create time appointments for the patients to choose from.

```
Here is some code example for this:

@extends('admin.layouts.master')
```

```
@section('content')

<div class="page-header">
    <div class="row align-items-end">
        <div class="col-lg-8">


            <div class="page-header-title">
                <i class="ik ik-command bg-blue"></i>
                <div class="d-inline">
                    <h5>Doctors</h5>
                    <span>appoinment time</span>

                </div>
            </div>
        </div>
    <div class="col-lg-4">
        <nav class="breadcrumb-container" aria-label="breadcrumb">
            <ol class="breadcrumb">
                <li class="breadcrumb-item">
                    <a href="../index.html"><i class="ik ik-home"></i></a>
                </li>
                <li class="breadcrumb-item"><a href="#">Doctor</a></li>
                <li class="breadcrumb-item active" aria-
current="page">Appointment</li>
            </ol>
        </nav>
    </div>
    </div>
</div>

<div class="container">
        @if(Session::has('message'))
            <div class="alert bg-success alert-success text-white"
role="alert">
                {{Session::get('message')}}
            </div>
        @endif
        @foreach($errors->all() as $error)
            <div class="alert alert-danger">
                {{$error}}

            </div>

        @endforeach


    <form action="{{route('appointment.store')}}" method="post">@csrf

    <div class="card">
        <div class="card-header">
            Choose date

        </div>
        <div class="card-body">
         <input type="text" class="form-control datetimepicker-input"
id="datepicker" data-toggle="datetimepicker" data-target="#datepicker"
name="date">
        </div>
    </div>
```

```html
    <div class="card">
        <div class="card-header">
            Choose AM time
          <span style="margin-left: 700px">Check/Uncheck
              <input type="checkbox" onclick=" for(c in
document.getElementsByName('time[]'))
document.getElementsByName('time[]').item(c).checked=this.checked" >
          </span>
        </div>
        <div class="card-body">

            <table class="table table-striped">


              <tbody>
                <tr>
                  <th scope="row">1</th>
                  <td><input type="checkbox" name="time[]"
value="6am">6am</td>
                  <td><input type="checkbox" name="time[]"
value="6.20am">6.20am</td>
                  <td><input type="checkbox" name="time[]"
value="6.40am">6.40am</td>
                </tr>
                 <tr>
                  <th scope="row">2</th>
                  <td><input type="checkbox" name="time[]"
value="7am">7am</td>
                  <td><input type="checkbox" name="time[]"
value="7.20am">7.20am</td>
                  <td><input type="checkbox" name="time[]"
value="7.40am">7.40am</td>
                </tr>
                 <tr>
                  <th scope="row">3</th>
                  <td><input type="checkbox" name="time[]"
value="8am">8am</td>
                  <td><input type="checkbox" name="time[]"
value="8.20am">8.20am</td>
                  <td><input type="checkbox" name="time[]"
value="8.40am">8.40am</td>
                </tr>

                <tr>
                  <th scope="row">4</th>
                  <td><input type="checkbox" name="time[]"
value="9am">9am</td>
                  <td><input type="checkbox" name="time[]"
value="9.20am">9.20am</td>
                  <td><input type="checkbox" name="time[]"
value="9.40am">9.40am</td>
                </tr>

                <tr>
                  <th scope="row">5</th>
                  <td><input type="checkbox" name="time[]"
value="10am">10am</td>
                  <td><input type="checkbox" name="time[]"
value="10.20am">10.20am</td>
                  <td><input type="checkbox" name="time[]"
value="10.40am">10.40am</td>
```

```html
					</tr>

				<tr>
				  <th scope="row">6</th>
				  <td><input type="checkbox" name="time[]"
value="11am">11am</td>
				  <td><input type="checkbox" name="time[]"
value="11.20am">11.20am</td>
				  <td><input type="checkbox" name="time[]"
value="11.40am">11.40am</td>
				</tr>


			</tbody>
		</table>
	</div>
</div>

	<div class="card">
	<div class="card-header">
	  Choose PM time
	</div>
	<div class="card-body">

		<table class="table table-striped">


			<tbody>
			  <tr>
				<th scope="row">7</th>
				<td><input type="checkbox" name="time[]"
value="12pm">12pm</td>
				<td><input type="checkbox" name="time[]"
value="12.20pm">12.20pm</td>
				<td><input type="checkbox" name="time[]"
value="12.40pm">12.40pm</td>
			  </tr>
			  <tr>
				<th scope="row">7</th>
				<td><input type="checkbox" name="time[]"
value="1pm">1pm</td>
				<td><input type="checkbox" name="time[]"
value="1.20pm">1.20pm</td>
				<td><input type="checkbox" name="time[]"
value="1.40pm">1.40pm</td>
			  </tr>
			  <tr>
				<th scope="row">8</th>
				<td><input type="checkbox" name="time[]"
value="2pm">2pm</td>
				<td><input type="checkbox" name="time[]"
value="2.20pm">2.20pm</td>
				<td><input type="checkbox" name="time[]"
value="2.40pm">2.40pm</td>
			  </tr>
			  <tr>
				<th scope="row">9</th>
				<td><input type="checkbox" name="time[]"
value="3pm">3pm</td>
				<td><input type="checkbox" name="time[]"
value="3.20pm">3.20pm</td>
```

```html
                    <td><input type="checkbox" name="time[]"
value="3.40pm">3.40pm</td>
                  </tr>
                  <tr>
                    <th scope="row">10</th>
                    <td><input type="checkbox" name="time[]"
value="4pm">4pm</td>
                    <td><input type="checkbox" name="time[]"
value="4.20pm">4.20pm</td>
                    <td><input type="checkbox" name="time[]"
value="4.40pm">4.40pm</td>
                  </tr>
                  <tr>
                    <th scope="row">11</th>
                    <td><input type="checkbox" name="time[]"
value="5pm">5pm</td>
                    <td><input type="checkbox" name="time[]"
value="5.20pm">5.20pm</td>
                    <td><input type="checkbox" name="time[]"
value="5.40pm">5.40pm</td>
                  </tr>
                  <tr>
                    <th scope="row">12</th>
                    <td><input type="checkbox" name="time[]"
value="6pm">6pm</td>
                    <td><input type="checkbox" name="time[]"
value="6.20pm">6.20pm</td>
                    <td><input type="checkbox" name="time[]"
value="6.40pm">6.40pm</td>
                  </tr>
                  <tr>
                    <th scope="row">13</th>
                    <td><input type="checkbox" name="time[]"
value="7pm">7pm</td>
                    <td><input type="checkbox" name="time[]"
value="7.20pm">7.20pm</td>
                    <td><input type="checkbox" name="time[]"
value="7.40pm">7.40pm</td>
                  </tr>
                  <tr>
                    <th scope="row">14</th>
                    <td><input type="checkbox" name="time[]"
value="8pm">8pm</td>
                    <td><input type="checkbox" name="time[]"
value="8.20pm">8.20pm</td>
                    <td><input type="checkbox" name="time[]"
value="8.40pm">8.40pm</td>
                  </tr>
                  <tr>
                    <th scope="row">15</th>
                    <td><input type="checkbox" name="time[]"
value="9pm">9pm</td>
                    <td><input type="checkbox" name="time[]"
value="9.20pm">9.20pm</td>
                    <td><input type="checkbox" name="time[]"
value="9.40pm">9.40pm</td>
                  </tr>


              </tbody>
```

```
                </table>
            </div>
        </div>
        <div class="card">
            <div class="card-body">
                <button type="submit" class="btn btn-primary">Submit</button>
            </div>
        </div>
        </form>

</div>

<style type="text/css">
    input[type="checkbox"]{
        zoom:1.1;

    }
    body{
        font-size: 18px;
    }
</style>



@endsection
```

- Patients can book an appointment with doctor

To make an appointment with some of the doctors, you need to be logged in. After choosing time, you can confirm the appointment. After appointment is made, you will receive email notifications with all information about the appointment. Also appointment will disappear from the list of available appointments.

```
@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row">
        <div class="col-md-3">
            <div class="card">
                <div class="card-body">
                    <h4 class="text-center">Doctor Information</h4>
                    <img  src="{{asset('images')}}/{{$user->image}}"
```

```html
width="100px" style="border-radius: 50%;" >
                    <br>
                <p class="lead"> Name:{{ucfirst($user->name)}}</p>
                <p class="lead"> Degree:{{$user->education}}</p>
                <p class="lead"> Specialist:{{$user->department}}</p>
            </div>

        </div>

    </div>
    <div class="col-md-9">
        @foreach($errors->all() as $error)
            <div class="alert alert-danger">{{$error}}</div>
        @endforeach

        @if(Session::has('message'))
            <div class="alert alert-success">
                {{Session::get('message')}}
            </div>
        @endif

        @if(Session::has('errmessage'))
            <div class="alert alert-danger">
                {{Session::get('errmessage')}}
            </div>
        @endif


        <form action="{{route('booking.appointment')}}"
method="post">@csrf
        <div class="card">
            <div class="card-header lead">{{$date}}</div>
            <div class="card-body">
                <div class="row">
                    @foreach($times as $time)
                    <div class="col-md-3">
                        <label class="btn btn-outline-primary">
                            <input type="radio" name="time"
value="{{$time->time}}" >
                            <span>{{$time->time}}
                                </span>
                        </label>
                    </div>
                    <input type="hidden" name="doctorId"
value="{{$doctor_id}}">
                    <input type="hidden" name="appointmentId" value
="{{$time->appointment_id}}">
                    <input type="hidden" name="date" value
="{{$date}}">



                    @endforeach
                </div>
            </div>
            </div>
            <div class="card-footer">
            @if(Auth::check())
            <button type="submit" class="btn btn-success" style="width:
```

```
100%;">Book Appointment</button>
                @else
                    <p>Please login to make an appointment</p>
                    <a href="/register">Register</a>
                    <a href="/login">Login</a>
                @endif


            </div>


        </form>

        </div>
    </div>
</div>
@endsection
```

- Implement filter at frontend to search doctors

As you are looking on the doctors list you can filter them to browse specific doctor.

- Doctor will make a prescription

Prescription   ×

Disease

Symptoms

symptoms

Medicine

Procedure to use medicine

Procedure to use medicine

Feedback

feedback

Signature

Close   Save changes

This is how it looks to populate one prescription for some patient.

```
This is the code for viewing this prescription box:

@extends('admin.layouts.master')
@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-12">
            <div class="card">

                <div class="card-header" >


                </div>

                <div class="card-body">
                    <p>Date:{{$prescription->date}}</p>
                    <p>Patient:{{$prescription->user->name}}</p>
                    <p>Doctor:{{$prescription->doctor->name}}</p>
                    <p>Disease:{{$prescription->name_of_disease}}</p>
                    <p>Symptoms:{{$prescription->symptoms}}</p>
                    <p>Medicine:{{$prescription->medicine}}</p>
                    <p>Proedure to use medicine:{{$prescription-
>procedure_to_use_medicine}}</p>
                    <p>Feedback:{{$prescription->feedback}}</p>
                    <p>Doctor signature:{{$prescription->signature}}</p>
```

```
                    </div>
                </div>
            </div>
        </div>
</div>

@endsection
```

- Patients can view their prescription

Doctor	Disease	Symptoms	medicine	procedure to use medicine	Doctor Feedback
john doe	Elvis Molina	Deserunt nulla ut am	Repellendus Digniss,Deserunt autem dolor,Accusamus doloremque,Et maiores ut quae d	Error dolorum et qui	Assumenda provident

Patient:Joseph Morse

Doctor:john doe

Disease:Elvis Molina

Symptoms:Deserunt nulla ut am

Medicine:Repellendus Digniss,Deserunt autem dolor,Accusamus doloremque,Et maiores ut quae d

Proedure to use medicine:Error dolorum et qui

Feedback:Assumenda provident

Doctor signature:Corrupti dolore qui

```
This is how patients are viewing their prescriptions and this is the code
that shows this:

@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-12">
            <div class="card">
                <div class="card-header">My prescriptions</div>

                <div class="card-body">

                    <table class="table table-striped">
                        <thead>
                          <tr>

                            <th scope="col">Date</th>
                            <th scope="col">Doctor</th>
                            <th scope="col">Disease</th>
                            <th scope="col">Symptoms</th>
```

```
                        <th scope="col">medicine</th>
                        <th scope="col">procedure to use medicine</th>
                        <th scope="col">Doctor Feedback</th>
                     </tr>
                  </thead>
                  <tbody>
                    @forelse($prescriptions as $prescription)
                    <tr>

                       <td>{{$prescription->date}}</td>
                       <td>{{$prescription->doctor->name}}</td>
                       <td>{{$prescription->name_of_disease}}</td>
                       <td>{{$prescription->symptoms}}</td>
                       <td>{{$prescription->medicine}}</td>
                       <td>{{$prescription-
>procedure_to_use_medicine}}</td>
                       <td>{{$prescription->feedback}}</td>
                    </tr>
                    @empty
                    <td>You have no prescriptions</td>
                    @endforelse

                  </tbody>
               </table>


            </div>
         </div>
      </div>
   </div>
</div>
@endsection
```

- Patients can make their profiles

    As we mentioned before, only patients can create their profiles. I will add account registration picture again here.


```
This is the registration code view:

@extends('layouts.app')

@section('content')
```

```html
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">{{ __('Register') }}</div>

                <div class="card-body">
                    <form method="POST" action="{{ route('register') }}">
                        @csrf

                        <div class="form-group row">
                            <label for="name" class="col-md-4 col-form-
label text-md-right">{{ __('Name') }}</label>

                            <div class="col-md-6">
                                <input id="name" type="text" class="form-
control @error('name') is-invalid @enderror" name="name" value="{{
old('name') }}" required autocomplete="name" autofocus>

                                @error('name')
                                    <span class="invalid-feedback"
role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                            </div>
                        </div>

                        <div class="form-group row">
                            <label for="email" class="col-md-4 col-form-
label text-md-right">{{ __('E-Mail Address') }}</label>

                            <div class="col-md-6">
                                <input id="email" type="email" class="form-
control @error('email') is-invalid @enderror" name="email" value="{{
old('email') }}" required autocomplete="email">

                                @error('email')
                                    <span class="invalid-feedback"
role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                            </div>
                        </div>

                        <div class="form-group row">
                            <label for="password" class="col-md-4 col-form-
label text-md-right">{{ __('Password') }}</label>

                            <div class="col-md-6">
                                <input id="password" type="password"
class="form-control @error('password') is-invalid @enderror"
name="password" required autocomplete="new-password">

                                @error('password')
                                    <span class="invalid-feedback"
role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
```

```html
                                    </div>
                                </div>

                                <div class="form-group row">
                                    <label for="password-confirm" class="col-md-4
col-form-label text-md-right">{{ __('Confirm Password') }}</label>

                                    <div class="col-md-6">
                                        <input id="password-confirm"
type="password" class="form-control" name="password_confirmation" required
autocomplete="new-password">
                                    </div>
                                </div>

                                <div class="form-group row">
                                    <label for="password-confirm" class="col-md-4
col-form-label text-md-right">{{ __('Gender') }}</label>

                                    <div class="col-md-6">
                                        <select name="gender" class="form-control
@error('gender') is-invalid @enderror">
                                            <option value="">please select
gender</option>
                                            <option value="male">Male</option>
                                            <option value="female">Female</option>
                                        </select>
                                    </div>

                                        @error('gender')
                                            <span class="invalid-feedback"
role="alert">
                                                <strong>{{ $message }}</strong>
                                            </span>
                                        @enderror
                                    </div>

                                <div class="form-group row mb-0">
                                    <div class="col-md-6 offset-md-4">
                                        <button type="submit" class="btn btn-
primary">
                                            {{ __('Register') }}
                                        </button>
                                    </div>
                                </div>
                            </form>
                        </div>
                    </div>
                </div>
            </div>
</div>
@endsection
```
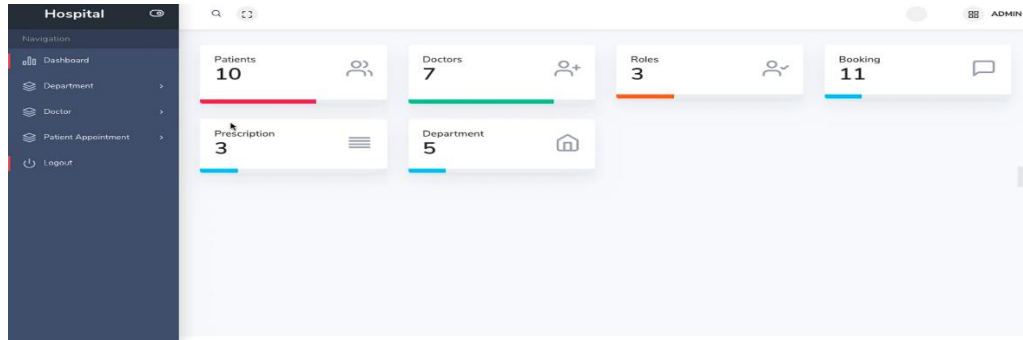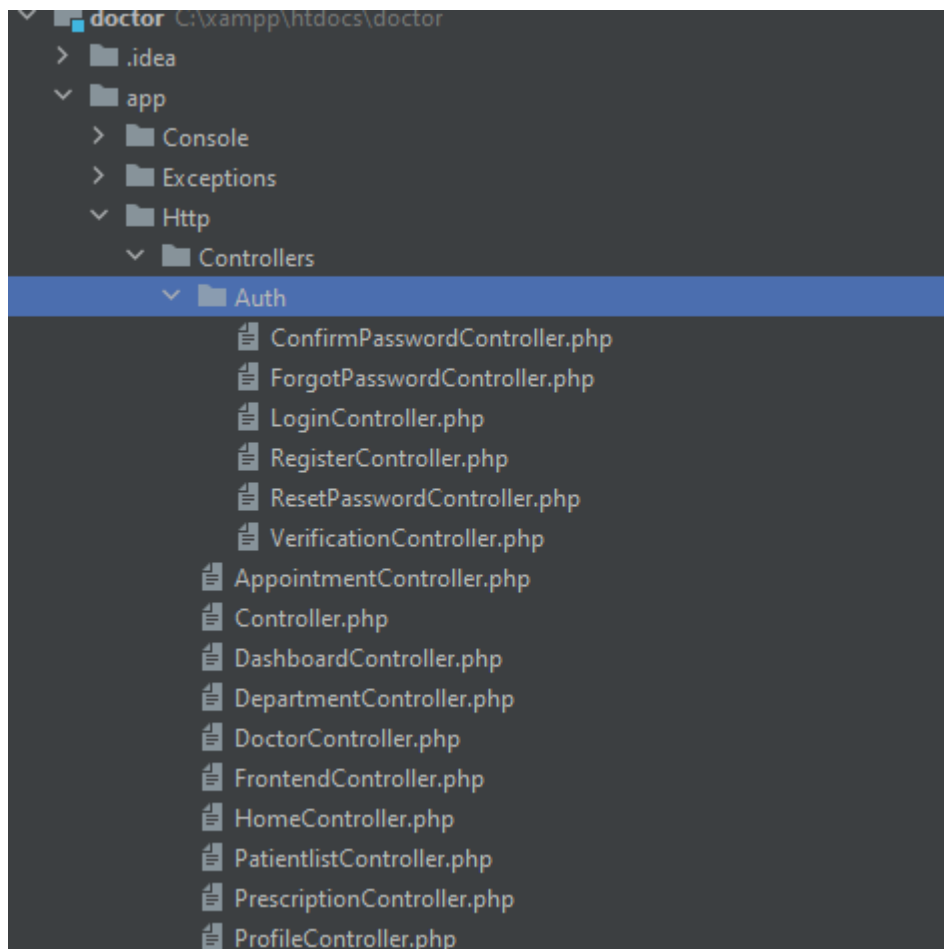
- Dashboard analystics

As we can see on the admin or the doctors panel, we can see clearly how many patients, doctors, roles, departments, bookings and prescriptions we have.

This is the dashboard code, to include the necessary code from admin.layouts.

```
@include('admin.layouts.header')
@include('admin.layouts.sidebar')
@include('admin.layouts.content')
@include('admin.layouts.footer')
```

These are the controllers that we have for this project.

Here is one example from the doctor controller code:

```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\User;
class DoctorController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {

        $users  = User::where('role_id','!=',3)->get();
        return view('admin.doctor.index',compact('users'));
    }

    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        return view('admin.doctor.create');
    }

    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $this->validateStore($request);
        $data = $request->all();
        $name = (new User)->userAvatar($request);

        $data['image'] = $name;
        $data['password'] = bcrypt($request->password);
        User::create($data);

        return redirect()->back()->with('message','Doctor added
successfully');


    }

    /**
     * Display the specified resource.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
```

```php
    public function show($id)
    {
        $user = User::find($id);
        return view('admin.doctor.delete',compact('user'));
    }

    /**
     * Show the form for editing the specified resource.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function edit($id)
    {
        $user = User::find($id);
        return view('admin.doctor.edit',compact('user'));
    }

    /**
     * Update the specified resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, $id)
    {
        $this->validateUpdate($request,$id);
        $data = $request->all();
        $user = User::find($id);
        $imageName = $user->image;
        $userPassword = $user->password;
        if($request->hasFile('image')){
            $imageName =(new User)->userAvatar($request);
            unlink(public_path('images/'.$user->image));
        }
        $data['image'] = $imageName;
        if($request->password){
            $data['password'] = bcrypt($request->password);
        }else{
            $data['password'] = $userPassword;
        }
         $user->update($data);
        return redirect()->route('doctor.index')->with('message','Doctor
updated successfully');

    }

    /**
     * Remove the specified resource from storage.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function destroy($id)
    {
        if(auth()->user()->id == $id){
            abort(401);
        }
        $user = User::find($id);
        $userDelete = $user->delete();
```

```php
        if($userDelete){
         unlink(public_path('images/'.$user->image));
        }
         return redirect()->route('doctor.index')->with('message','Doctor
deleted successfully');

    }

    public function validateStore($request){
        return  $this->validate($request,[
            'name'=>'required',
            'email'=>'required|unique:users',
            'password'=>'required|min:6|max:25',
            'gender'=>'required',
            'education'=>'required',
            'address'=>'required',
            'department'=>'required',
            'phone_number'=>'required|numeric',
            'image'=>'required|mimes:jpeg,jpg,png',
            'role_id'=>'required',
            'description'=>'required'

        ]);
    }
    public function validateUpdate($request,$id){
        return  $this->validate($request,[
            'name'=>'required',
            'email'=>'required|unique:users,email,'.$id,

            'gender'=>'required',
            'education'=>'required',
            'address'=>'required',
            'department'=>'required',
            'phone_number'=>'required|numeric',
            'image'=>'mimes:jpeg,jpg,png',
            'role_id'=>'required',
            'description'=>'required'

        ]);
    }

}
```
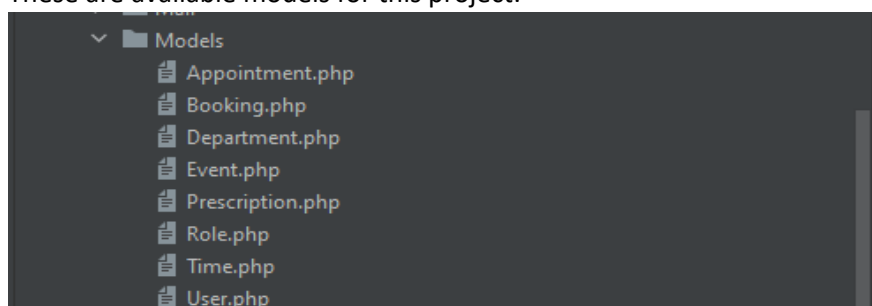
These are examples for showing views accordingly and storing information into database
together with our Models.

These are available models for this project:

Another file that we need to share is web.php where all our routes are implemented.

```php
<?php

use Illuminate\Support\Facades\Route;

/*
|--------------------------------------------------------------------------
| Web Routes
|--------------------------------------------------------------------------
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider within a group which
| contains the "web" middleware group. Now create something great!
|
*/


Route::get('/event','EventCalender@index');

Route::get('/','FrontendController@index');

Route::get('/new-appointment/{doctorId}/{date}','FrontendController@show')-
>name('create.appointment');


Route::group(['middleware'=>['auth','patient']],function(){

    Route::post('/book/appointment','FrontendController@store')-
>name('booking.appointment');

    Route::get('/my-booking','FrontendController@myBookings')-
>name('my.booking');

    Route::get('/user-profile','ProfileController@index');
    Route::post('/user-profile','ProfileController@store')-
>name('profile.store');
    Route::post('/profile-pic','ProfileController@profilePic')-
>name('profile.pic');
    Route::get('/my-prescription','FrontendController@myPrescription')-
>name('my.prescription');


});


Route::get('/dashboard','DashboardController@index');
Auth::routes();

Route::get('/home', 'HomeController@index')->name('home');



Route::group(['middleware'=>['auth','admin']],function(){
    Route::resource('doctor','DoctorController');
```

```php
    Route::get('/patients','PatientlistController@index')->name('patient');
    Route::get('/patients/all','PatientlistController@allTimeAppointment')-
>name('all.appointments');
    Route::get('/status/update/{id}','PatientlistController@toggleStatus')-
>name('update.status');
    Route::resource('department','DepartmentController');



});

Route::group(['middleware'=>['auth','doctor']],function(){

    Route::resource('appointment','AppointmentController');
    Route::post('/appointment/check','AppointmentController@check')-
>name('appointment.check');
    Route::post('/appointment/update','AppointmentController@updateTime')-
>name('update');

    Route::get('patient-today','PrescriptionController@index')-
>name('patients.today');

    Route::post('/prescription','PrescriptionController@store')-
>name('prescription');


Route::get('/prescription/{userId}/{date}','PrescriptionController@show')-
>name('prescription.show');
    Route::get('/prescribed-
patients','PrescriptionController@patientsFromPrescription')-
>name('prescribed.patients');



});
```