In view

<div class="col-md-4">

<div class="header-right-content">

<div class="search-form">

@if($message = Session::has('message'))

@php($message = 'Please.. fill up at least one field to search..')

<p style="color: red;">

{{$message}}

</p>

@endif

<form action="{{route('search-product')}}" method="post">

{{csrf\_field()}}

<div class="form-group">

<input type="text" class="form-control" placeholder="search your favourite food item !! " name="name" id="name">

</div>

<div class="form-element">

<div class="location">

<svg width="16px" height="20px">

<i class="fas fa-map-marker-alt"></i>

</div>

<select name="location\_id" class="form-control">

<option value="">--Select Location--</option>

@if($locations->all())

@foreach($locations as $item)

<option value="{{$item->id}}">{{$item->name}}</option>

@endforeach

@endif

</select>

</div>

<div class="form-element">

<div class="category">

<i class="fas fa-angle-down"></i>

</div>

<select name="category\_id" class="form-control">

<option value="">--Select Category--</option>

@if($categories->all())

@foreach($categories as $item)

<option value="{{$item->id}}">{{$item->name}}</option>

@endforeach

@endif

</select>

</div>

<input type="submit" value="Search Your Favourite Food">

</form>

</div>

</div>

</div>

In controller

public function searchProduct(Request $request){

$name = $request->name;

$locationId = $request->location\_id;

$categoryId = $request->category\_id;

$nameCat = empty($name) && empty($categoryId);

$nameLoc = empty($name) && empty($locationId);

$catLoc = empty($categoryId) && empty($locationId);

$notNameCat = !empty($name) && !empty($categoryId);

$notNameLoc = !empty($name) && !empty($locationId);

$notCatLoc = !empty($categoryId) && !empty($locationId);

if(empty($name) && $catLoc){

return back()->with('message','Please.. fill up at least one field to search..');

}

elseif($notNameCat && !empty($locationId)){

// search by all

$products = Product::where('status', 1)->where('location\_id',$request->location\_id)->where('category\_id',$request->category\_id)->where('name','LIKE','%'.$request->name.'%')->get();

}

elseif($notNameCat && empty($locationId)){

// search by name and category\_id

$products = Product::where('status', 1)->where('category\_id',$request->category\_id)->where('name','LIKE','%'.$request->name.'%')->get();

}

elseif($notNameLoc && empty($categoryId)){

// search only by name and location\_id

$products = Product::where('status', 1)->where('location\_id',$request->location\_id)->where('name','LIKE','%'.$request->name.'%')->get();

}

elseif($notCatLoc && empty($name) ){

// search only by location\_id and category\_id

$products = Product::where('status', 1)->where('location\_id',$request->location\_id)->where('category\_id',$request->category\_id)->get();

}

elseif(!empty($name) && $catLoc){

// search only by name

$products = Product::where('status', 1)->where('name','LIKE','%'.$request->name.'%')->get();

}

elseif(!empty($categoryId) && $nameLoc){

// search only by category\_id

$products = Product::where('status', 1)->where('category\_id',$request->category\_id)->get();

}

elseif($nameCat && !empty($locationId)){

// search only by location\_id

$products = Product::where('status', 1)->where('location\_id',$request->location\_id)->get();

}

return 'false';

}