**Modual –9,10(forms,controller)**

**1-expalain orm**

**=>** Eloquent is an object relational mapper (ORM) that is included by default within the Laravel framework. An ORM is software that facilitates handling database records by representing data as objects, working as a layer of abstraction on top of the database engine used to store an application's data.

**2-Do Crud using Eloquent Query**

**Controller**

<?php

namespace App\Http\Controllers\admin;

use App\Http\Controllers\Controller;

use Illuminate\Http\Request;

use App\Models\AddFaculty;

class AddFacultyController extends Controller

{

/\*\*

\* Display a listing of the resource.

\*

\* @return \Illuminate\Http\Response

\*/

public function index()

{

return view('admin.addfaculty');

}

/\*\*

\* Show the form for creating a new resource.

\*

\* @return \Illuminate\Http\Response

\*/

public function create()

{

//

}

/\*\*

\* Store a newly created resource in storage.

\*

\* @param \Illuminate\Http\Request $request

\* @return \Illuminate\Http\Response

\*/

public function store(Request $request)

{

$request->validate([

"name"=>"required",

"depname"=>"required",

"subject"=>"required",

"age"=>"required",

"mobile"=>"required|min:10|max:10",

"address"=>"required"

]);

$data=array(

"name"=>$request->name,

"department"=>$request->depname,

"subject"=>$request->subject,

"age"=>$request->age,

"mobile"=>$request->mobile,

"address"=>$request->address,

);

// elequent query builder

AddFaculty::create($data);

return redirect("/admin-login/addfaculty")->with("success","Faculty successfully added!");

}

/\*\*

\* Display the specified resource.

\*

\* @param int $id

\* @return \Illuminate\Http\Response

\*/

public function show()

{

$data=AddFaculty::all();

return view('admin.managefaculty',['data'=>$data]);

}

/\*\*

\* Show the form for editing the specified resource.

\*

\* @param int $id

\* @return \Illuminate\Http\Response

\*/

public function edit($id)

{

//

$editdata=AddFaculty::where('id',$id)->first();

return view('admin.editfaculty',['editdata'=>$editdata]);

}

/\*\*

\* Update the specified resource in storage.

\*

\* @param \Illuminate\Http\Request $request

\* @param int $id

\* @return \Illuminate\Http\Response

\*/

public function update(Request $request, $id)

{

{ $request->validate([

'name' => 'required',

'email' => 'required',

'address' => 'required', ]);

$company->fill($request->post())->save();

return redirect()->route('companies.index')->with('success','Company Has Been updated successfully'); }

}

/\*\*

\* Remove the specified resource from storage.

\*

\* @param int $id

\* @return \Illuminate\Http\Response

\*/

public function destroy($id)

{

// elequent query bulider

AddFaculty::where('id',$id)->delete();

return redirect('/admin-login/managefaculty')->with('del','Your data successfully deleted');

}

}

**Explain - Eloquent Relationships**

**=>database/migrations/custmoerstable**

public function up()

{

Schema::create('customers', function (Blueprint $table) {

$table->increments("id");

$table->string("name");

$table->string("fname");

$table->string("lname");

$table->string("email");

$table->string("password");

$table->bigInteger("phone");

$table->string("gender");

$table->string("hobby");

$table->text("address");

$table->string("photo");

$table->integer("country\_id")->unsigned();

$table->foreign("country\_id")->references('id')->on('countries');

$table->integer("state\_id")->unsigned();

$table->foreign("state\_id")->references('id')->on('states');

$table->integer("city\_id")->unsigned();

$table->foreign("city\_id")->references('id')->on('cities');

$table->timestamps();

});

}

**Citytables:**

public function up()

{

Schema::create('cities', function (Blueprint $table) {

$table->increments("id");

$table->integer("state\_id")->unsigned();

$table->foreign("state\_id")->references('id')->on('states');

$table->string("cityname");

$table->timestamps();

});

}

**Countrytable:**

public function up()

{

Schema::create('countries', function (Blueprint $table) {

$table->increments("id");

$table->string("countryname");

$table->timestamps();

});

}

**What is Eager Loading and lazy loading?**

**=> Eager Loading** means you get all of the required data at the same time. In contrast, **Lazy Loading** only retrieves related things when they are actually needed and only gives you one item at a time.

**Do Session for Employee Management System.**

**Step 1** − Create a controller called **SessionController** by executing the following command.

php artisan make:controller SessionController –plain

**Step 2** − Copy the following code in a file at

**app/Http/Controllers/SessionController.php.**

**app/Http/Controllers/SessionController.php**

<?php  
  
namespace App\Http\Controllers;  
  
use Illuminate\Http\Request;  
use App\Http\Requests;  
use App\Http\Controllers\Controller;  
  
class SessionController extends Controller {  
 public function accessSessionData(Request $request) {  
 if($request->session()->has('my\_name'))  
 echo $request->session()->get('my\_name');  
 else  
 echo 'No data in the session';  
 }  
 public function storeSessionData(Request $request) {  
 $request->session()->put('my\_name','Virat Gandhi');  
 echo "Data has been added to session";  
 }  
 public function deleteSessionData(Request $request) {  
 $request->session()->forget('my\_name');  
 echo "Data has been removed from session.";  
 }  
}

**Step 4** − Add the following lines at **app/Http/routes.php** file.

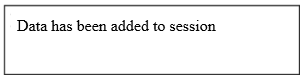
**app/Http/routes.php**

Route::get('session/get','SessionController@accessSessionData');  
Route::get('session/set','SessionController@storeSessionData');  
Route::get('session/remove','SessionController@deleteSessionData');

**Step 5** − Visit the following URL to **set data in session**.

<http://localhost:8000/session/set>

**Step 6** − The output will appear as shown in the following image.



**Step 7** − Visit the following URL to **get data from session**.

<http://localhost:8000/session/get>

**Step 8** − The output will appear as shown in the following image.

Virat Gandhi

**Step 9** − Visit the following URL to **remove session data**.

<http://localhost:8000/session/remove>

**Step 10** − You will see a message as shown in the following image.

