

AN INTERNATIONAL BRAND OF SOFTWARE ENGINEERING EDUCATION

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LARAVEL LARAVEL IS A PHP FRAMEWORK

❖ Why we use laravel?

- > Laravel follows a design pattern called mvc
- > Laravel is secure and prevents several web attacks
- > Easy to maintain routing services
- > Laravel has made processing with database very easy



❖ Setup laravel

- Install composer
 https://getcomposer.org/Composer-Setup.exe
- Install laravel
 Open cmd
 composer global require laravel/installer

How to create laravel project

Open cmd laravel new wap

❖ How to run laravel project ?

Open cmd
Open project project
php artisan serve

UNDERSTANDING THE WORKING MODEL

STEP 1: DEFINE ROUTING PROCESS

- > OPEN PROJECT FOLDER
- > OPEN **ROUTES** FOLDER
- > OPEN web.php

STEP 2: CREATE A VIEWS

- > OPEN PROJECT FOLDER
- > OPEN **RESOURCES** FOLDER
- > OPEN VIEW FOLDER
- CREATE VIEWS

REMEMBER VIEWS FILES WILL BE SAVED IN .blade.php EXTENSION

EXAMPLE: about.blade.php



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❖ Why we use template engine?

Template engine is used to control the ui content easily

- ➤ IN LARAVEL WE USE A TEMPLATE ENGINE CALLED BLADE
- > BLADE TEMPLATE ENGINE PROVIDES SOME CODE TO MANAGE THE UI CONTENT VERY EASILY
- ► BLADE TEMPLATE ENGINE PAGE MUST BE SAVE AS .blade.php extension
- > YOU CAN ALSO USE CORE PHP IN BLADE

Let's learn blade template engine code

A syntax starts with @ in blade are called directives

❖ DIRECTIVE SYNTAX

@wap

@endwap

How to create reusable content ?

- @section("contact-number")
 9199987267
 @endsection
- **❖** How to read created reusable content?
 - @yield("contact-number")
- **❖** How to link external page of reusable content?
 - @extends('page-name')
- **❖** How to use conditions?

@if()



- @endif
- **❖** How to use for loop?

@for()

- @endfor
- How to use for switch ?

@switch()

@case(1)

Your result here

@break

@case(2)

Your result here

@break

@default

Your result here

@endswitch





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Route Methods

1. Route::get()

Route::get('/',function(){

Return view("index");

})



2. Route::redirect()

Route::redirect('/wap','https://wapinstitute.com')

3. Route::permanentRedirect()

Route::permanentRedirect('/wap','https://wapinstitute.com',301)

4. Route::view()

Route::view('/about','about')



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MIGRATION

Migration is a database query file that performs table config operation on calling migrated files.

TABLE CONFIG OPERATION

- > CREATE TABLE
- > RENAME OR DELETE TABLE
- CREATE COLUMNS
- MODIFY COLUMNS
- DELETE COLUMNS
- > CREATE INDEX
- > DELETE INDEX
- MODIFY INDEX

LARAVEL MIGRATIONS FILE DIRECTORY

database/migrations

BEFORE USING MIGRATION YOU HAVE TO CONFIGURE SOMETHING

- > open project
- > then open app/providers/ AppServiceProvider.php
- > Add some code

```
use Illuminate\Database\Schema\Builder;
Builder::defaultStringLength(191);
```

How to generate migration for table creation?

- > open project in cmd and write
- php artisan make:migration create_wap_table

Migrated files has two functions

```
1. public function up(){
    // Your table config operations here
```

```
2. public function down(){// Opposite table config operations here
```

COLUMN DATA TYPE

USED FOR STORING	DATA TYPE METHODS
Integer	integer('column_name')
Big integer	bigInteger('column_name')
Auto increment integer	bigIncrements('column_name')
String	string('column_name',length)
Medium text	mediumText('column_name')
Long text	longText('column_name')
Current timestamp	timestamp('column_name'), timestamps()
Date	date('coulmn_name')
DateTime	dateTime('column_name')
Decimal number	double('column_name',8,2)

Blob	binary('column_name')

HOW TO CALL DATA TYPE METHODS?

\$table->string("student_name")





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❖ DATABASE OPERATIONS IN LARAVEL BY USING ELOQUENT MODEL

You can perform all the database operations using eloquent model such as

- 1. Insert
- 2. Update
- 3. Delete
- 4. Select



RULES FOR ELOQUENT MODEL

- 1. You can only works with migrated table
- 2. Your table name should be plural example: waps
- Your model name starts with capital letter and the model is singular example: Wap

Let's start

Step-1 migrate your plural table

Example: waps

Step-2 Create eloquent model file Open cmd php artisan make:model **Wap**

```
step-3 Go to controllers and add a class
      use App\Wap
     function result()
           $data = Wap::all(); // get all the data from waps table
           echo $data->name;
     }
Eloquent model methods
   1. all()
                              // fetch_data
  2. get()
                             // fetch data
   3. take()
  4. where ('column name', 'value') // apply conditions
   5. orderBy('column_name') // arrange data in ascending or descending
   6. latest()
                                  // get latest inserted record
     How to insert data?
      $data = new Wap();
```

Venue: 4 jiyalal roy road, seikhpur muzaffarpur, bihar 842001 call: 9199987267, 9472395194

\$data->column_name = "saurav"

\$data->save()

How to update data ?

Wap::where("name", "saurav")->update(["roll" => "2"])

❖ How to delete row ?

Wap::where("name", "saurav")->delete()





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- Echo csrf_token in .blade.php page
 {{ csrf_token() }}
- ❖ Set token as ajax header



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❖ ERP AND CRM

ENTERPRISE RESOURCE PLANNING

ERP refers to a type of software that organizations use to manage day-to-day business activities such as accounting, procurement, project management, risk management and compliance, and supply chain operations

CUSTOMER RELATIONSHIP MANAGEMENT

CRM refers to all strategies, techniques, tools, and technologies used by enterprises for developing, retaining and **acquiring customers**.



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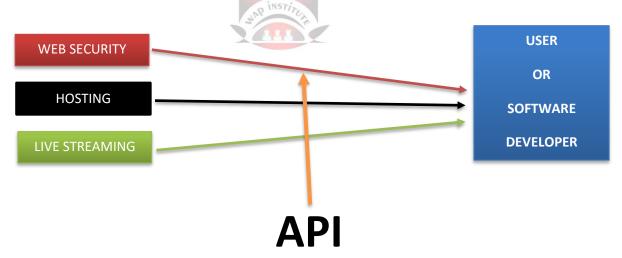
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❖ WEB SERVICES

A SERVICE THAT IS OFFERED TO PEOPLE BY THE INTERNET AND USED FOR CREATING OR INSIDE SOFTWARE IS CALLED WEB SERVICES.

एक ऐसी सेवा जो इंटरनेट द्वारा लोगों को दी जाती है और जिसका उपयोग सॉफ्टवेयर के अंदर या बनाने के लिए किया जाता हो उसे वेब सर्विसेज कहते है



A CODE THROUGH WHICH WE MAKE OUR WEB SERVICES ACCESSIBLE TO PEOPLE IS CALLED API.

एक कोड जिसके माध्यम से हम अपनी वेब सेवाओं को लोगों तक

पहुँचाते हैं उसे Api कहा जाता है।

API VS REST API

♣ API

Data exchange in same format

- > STRING AS STRING
- > JSON AS JSON
- > NUMBER AS NUMBER

❖ REST API

Data exchange in other format

- > STRING AS JSON
- > JSON AS STRING

ORDINARY CODE VS API

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ORDINARY CODES	API		
IN ORDINARY CODES WE USE	IN API WE USE DIFFERENT TYPES		
ONLY GET AND POST REQUEST	OF REQUEST AS PER WORK SUCH		
	AS : GET, POST, PUT, DELETE		
IN ORDINARY CODES WE RETURN			
ONLY THE RESPONSE	IN API WE RETURNS THE		
	RESPONSE WITH STATUS CODE		
YOU CAN NOT SECURED THE	SUCH AS: 200, 404		
REQUEST IN ORDINARY CODE			
	YOU CAN SECURED THE REQUEST		
	BY USING TOKEN IN API		

SOME IMPORTANT STATUS CODE

STATUS CODE	USES
200	OK OR SUCCESS
201	USE WHEN DATA IS INSERTED
204	USE WHEN DATA IS DELETED
401	UNAUTHORIZED
404	NOT FOUND
408	REQUEST TIMEOUT

What is postman?

Postman is a api testing tool

❖ How to write routing laravel api?

Open route folder

> Open api.php



❖ How to return the response of laravel api?

// api code

return response(array(),200)->header("Content-Type","text/plain")

// rest api code

return response(array(),200)->header("Content-Type","application/json")



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How to create middleware?
php artisan make:middleware verify

Middleware location app/http/middleware/verify.php



How to read token key from header?
\$request->header('token_key')

How to register middleware ?
Open kernal.php from app/http
And define \App\Http\Middleware\verify::class inside "api" array

How to create resource controller php artisan make:controller getdata_controller -resource

How to define route for resource controller?
Route::apiResource('/getdata','getdata_controller');



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How to prepare model for insert ?

Open model

protected \$fillable = ['column name','column name']

How to insert data to all columns?

Open resource controller
Go to store function

yourmodelClass::create(\$request->all())

What is the work of \$request->all()?

If you want to get all the submitted form data in array form use \$request->all()

❖ How to return response to view with status code ?

Syntax: return response()->view()->header()->setStatusCode()

example : return response()->view('congrats',array("notice")=>"success")>header("Content-Type","application/json")->setStatusCode(200)





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LARAVEL EMAIL SENDING SETUP

STEP - 1

Open .env file and change these information

MAIL_MAILER=smtp

MAIL_HOST=smtp.gmail.com

MAIL PORT=587

MAIL USERNAME=username@gmail.com

 ${\sf MAIL_PASSWORD=your_password_here}$

MAIL_ENCRYPTION=tls

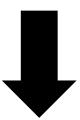
MAIL_FROM_ADDRESS=username@gmail.com

MAIL_FROM_NAME="\${APP_NAME}"

STEP - 2

Enable less secure apps from gmail account

```
How to send simple email?
STEP-1
Create a view of your content that you want to send
STEP - 2
Create a mail file of laravel
To create laravel mail file open command
> php artisan make:mail filename
STEP - 3
Access mail file and go to build function
Define view name of your content inside view() method
STEP - 4
Create a controller
STEP - 5
Go to controller and import the class of laravel mail file
To import class of mail file write this
> use App\Mail\laravel mail file
STEP - 6
Create a function in your controller
public function result()
      \Mail::to("wapinstitution@gmail.com")->send(new object());
}
```



LARAVEL EMAIL FILE FUNCTION

- subject("congrats!")
- view("content")
- 3. attach("filename",array(
 "as" => "filename",
 "mime" => "image/jpeg"
))

GET IMAGE BINARY IN BLADE

embed("image.jpg") }} ">





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LARAVEL INPUT ACCESS

Public function result(Request \$data)
{
 \$data->all(); // meaning : you want to access text data of form
 \$data->file('name_attr_value'); // meaning : you want to access
 file information of upload input field
}

LARAVEL METHODS FOR ACCESSING DATA FROM UPLOAD INPUT

- getClientOriginalName()
- 2. getMimeType()
- 3. getFilePath()

example



LARAVEL INPUT ACCESS

```
Public function result(Request $data)
{
    echo $data->file('name_attr_value')->getOriginialName();
}
```





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LARAVEL FILE HANDLING

Methods for file uploading

store("file_location");

storeAs("file_location","custom_name_of_file");

Laravel use Storage class for file handling

- How to import Storage class?
 use Illuminate\Support\Facades\Storage;
- Default file handling location of Storage class ? storage/app
- How to read a file ? Storage::get("filename.ext")

- How to write a file ?
 Storage::put("filename.ext")
- How to delete a file ?
 Storage::delete("filename.ext")
- How to copy a file ?
 Storage::copy("old.ext","new.ext")
- How to move a file ?
 Storage::move("old.ext","new.ext")
- How to make a folder ? Storage::makeDirectory("testing")
- How to delete empty folder ?
 Storage::deleteDirectory("testing")



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Laravel

- Create laravel project with specific version composer create-project laravel/laravel wap 7.3
- Open file as binary format
 \$f = fopen("filename.ext","rb")
- Read opened file fread (\$f, 256)





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Laravel advanced routing

Matching http request methods

```
Route::match(['get', 'post'], '/', function () {
});
```

Routing with all http methods

```
Route::any('/', function () {
})
```

Routing redirection

```
Route::get('hello', function () {
return redirect('/');
})
```

Wildcard routing with view

```
Route::get('/test/{id}', function ($id) {
return view('test',array('data'=>$id));
})
```

Wildcard routing with controller Route::get('/test/{id}','backend@result'); How to access id in controller? public function result(\$id) echo \$id; Conditions on wildcard routing Route::get('/test/{id}', function (\$id) { return view('test',array('data'=>\$id)); })->where('id','[A-B]+'); Multiple Wildcard routing Route::get('/test/{name}/{class}', function (\$name,\$class) { return view('test',array('name'=>\$name,'class'=>\$class)); }) Conditions On Multiple Wildcard Routing Route::get('/test/{name}/{class}', function (\$name,\$class) { return view('test',array('name'=>\$name,'class'=>\$class));)->where(['name'=>'[a-z]+','class'=>'[0-9]+']);



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Laravel

- Store a single data in session session->put("key","value");
- Store multiple data in session at one time

- Get data from session Session->get("key")
- Store temprorary data in session session->flash("key","value")
- Check if key exist or not session->has("key")
- Get all session data session->all()

Delete key data from session session->forget("key_name")

Request class methods

- 1. all()
- 2. input()
- 3. path()
- 4. url()
- 5. fullUrl()
- 6. query()
- 7. method()
- Example to access Request methods

```
public function result(Request $data)
{
     $data->all()
```

