

# CS 208: Web Technology - II Assignment #8

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## 1 Introduction to Laravel

### 1.1 Background

Laravel is a web application framework with expressive, elegant syntax. A web framework provides a structure and starting point for creating your application, allowing you to focus on creating something amazing while we sweat the details.

Laravel strives to provide an amazing developer experience while providing powerful features such as thorough dependency injection, an expressive database abstraction layer, queues and scheduled jobs, unit and integration testing, and more.

## 2 Lab Objectives

1. Learn the basic setup of Laravel MVC framework in UNIX and Windows Operating System
2. Learn to route a GET request to display a web page.

## 3 Examples

Making a quick-start with Laravel Breeze.

Laravel Breeze is a minimal, simple implementation of all of Laravel's authentication features, including login, registration, password reset, email verification, and password confirmation. In addition, Breeze includes a simple "profile" page where the user may update their name, email address, and password.

Laravel Breeze's default view layer is made up of simple Blade templates styled with Tailwind CSS.

Breeze provides a wonderful starting point for beginning a fresh Laravel application and is also a great choice for projects that plan to take their Blade templates to the next level with Laravel Livewire.

#### Command Line

```
sudo apt update
sudo apt upgrade
sudo apt install ca-certificates apt-transport-https
sudo apt install software-properties-common npm pnpm

sudo add-apt-repository ppa:ondrej/php

sudo apt install php8.0 libapache2-mod-php8.0
```

#### Command Line

```
composer create-project laravel/laravel myProject

cd myProject
composer require laravel/breeze --dev
php artisan breeze:install

php artisan migrate
npm install
npm run dev
```

#### app/Http/routes.php

```
<?php
Route::get('/', function () {
    return view('welcome');
});
```

1  
2  
3  
4

#### resources/view/welcome.blade.php

```
<html>
    <head> <title> Hello There !! </title> </head>
    <body>
        <h1> Hello Sir!!! From Laravel </h1>
    </body>
</html>
```

1  
2  
3  
4  
5  
6

## 4 Assignments

### Question 1

Modify the app to display a "Hello World" to any user who visits the url: /hello?name=Somebody.  
The output to be displayed will be  
<h1>Hello World, Somebody.</h1>

### Question 2

Modify the app to add any two numbers given by the parameters /hello/a/10/b/20.  
The output to be displayed will be  
The sum of 10 and 20 is 30.