

# INTERVIEW QUESTION-ANSWERS OF LARAVEL

## 1. What is Laravel?

ANS:- Laravel is an open-source PHP framework based on the Model-View-Controller (MVC) architecture. It simplifies web development by providing tools and features like routing, middleware, Eloquent ORM, and Blade templating.

## 2. What are some key features of Laravel?

ANS:-

- MVC Architecture
- Eloquent ORM
- Blade Templating Engine
- Routing and Middleware
- Task Scheduling (Scheduler)
- Authentication and Authorization
- Artisan CLI
- Database Migrations and Seeding

## 3. What is Artisan in Laravel?

ANS:- Artisan is Laravel's command-line interface (CLI) used to perform repetitive tasks like creating controllers, running migrations, and seeding databases. For example:

```
php artisan make:controller ExampleController
```

## 4. Explain Middleware in Laravel.

ANS:- Middleware acts as a bridge between a request and response. It's used for filtering HTTP requests. For example, Laravel includes middleware for authentication (`auth`) and CSRF protection.

## 5. How does Laravel handle security?

ANS:- Laravel provides built-in security features, including:

- CSRF protection (`@csrf` token in forms)
- Password hashing (using `bcrypt` or `Argon2`)
- SQL injection prevention (via Eloquent ORM)
- Cross-Site Scripting (XSS) prevention

## 6. What is a Service Provider in Laravel?

ANS:- Service Providers are the central place of application bootstrapping. They register services, configurations, and bindings in the service container. The `AppServiceProvider` is an example of a default service provider.

## 7. What are Laravel's default directories?

ANS:-

- **app/**: Contains application logic (controllers, models, etc.)
- **routes/**: Contains route definitions.
- **resources/**: Contains views, raw assets, and language files.
- **database/**: Contains migrations, factories, and seeds.
- **public/**: Web-accessible files like assets (CSS, JS).

## 8. What is the difference between `get()`, `first()`, and `find()` in Eloquent?

ANS:-

- `get()`: Retrieves all records as a collection.
- `first()`: Retrieves the first record matching the query.
- `find()`: Finds a record by its primary key.

## 9. How do you create a RESTful API in Laravel?

ANS:-

- Create a controller using `php artisan make:controller`.
- Use the `apiResource` route:  
`Route::apiResource('posts', PostController::class);`
- Implement CRUD methods in the controller.

## 10. What are Laravel Events?

ANS:- Events in Laravel provide a way to notify parts of an application when specific actions occur. Events are defined and dispatched, and listeners handle the event.

## 11. What is Dependency Injection in Laravel?

ANS:- Dependency Injection is a design pattern Laravel uses to inject class dependencies into the constructor or method.

Example:

```
public function __construct(UserRepository $userRepo)
```

```
{  
    $this->userRepo = $userRepo;  
}
```

## 12. What is a Repository Pattern in Laravel?

ANS:- The Repository Pattern separates business logic from data access, making the code more testable and maintainable.



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