



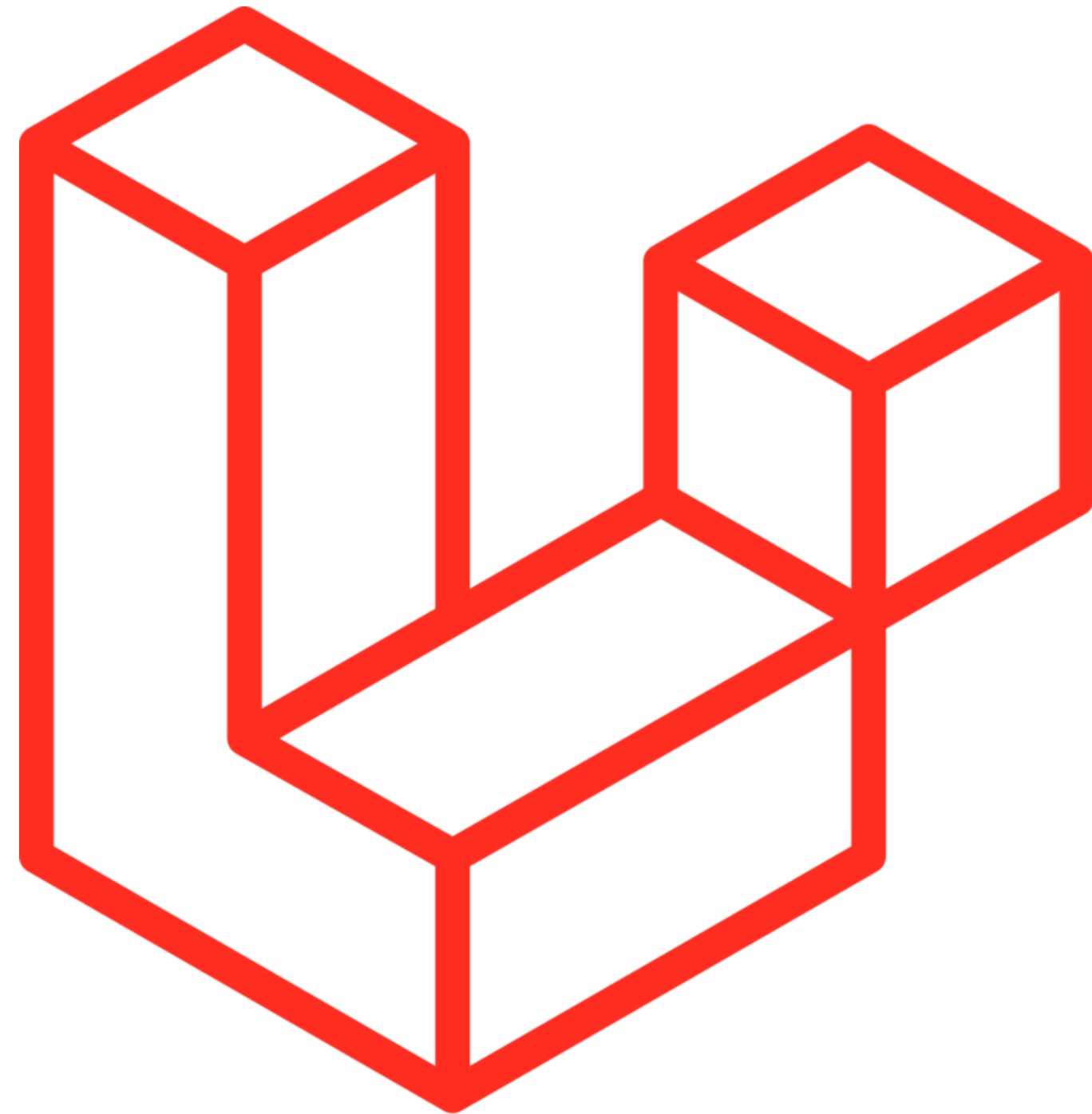
# Introduction to Laravel

**COURSE INSTRUCTOR**

**ABDULLAH AL NOMAN PRINCE**

**SOFTWARE ENGINEER**

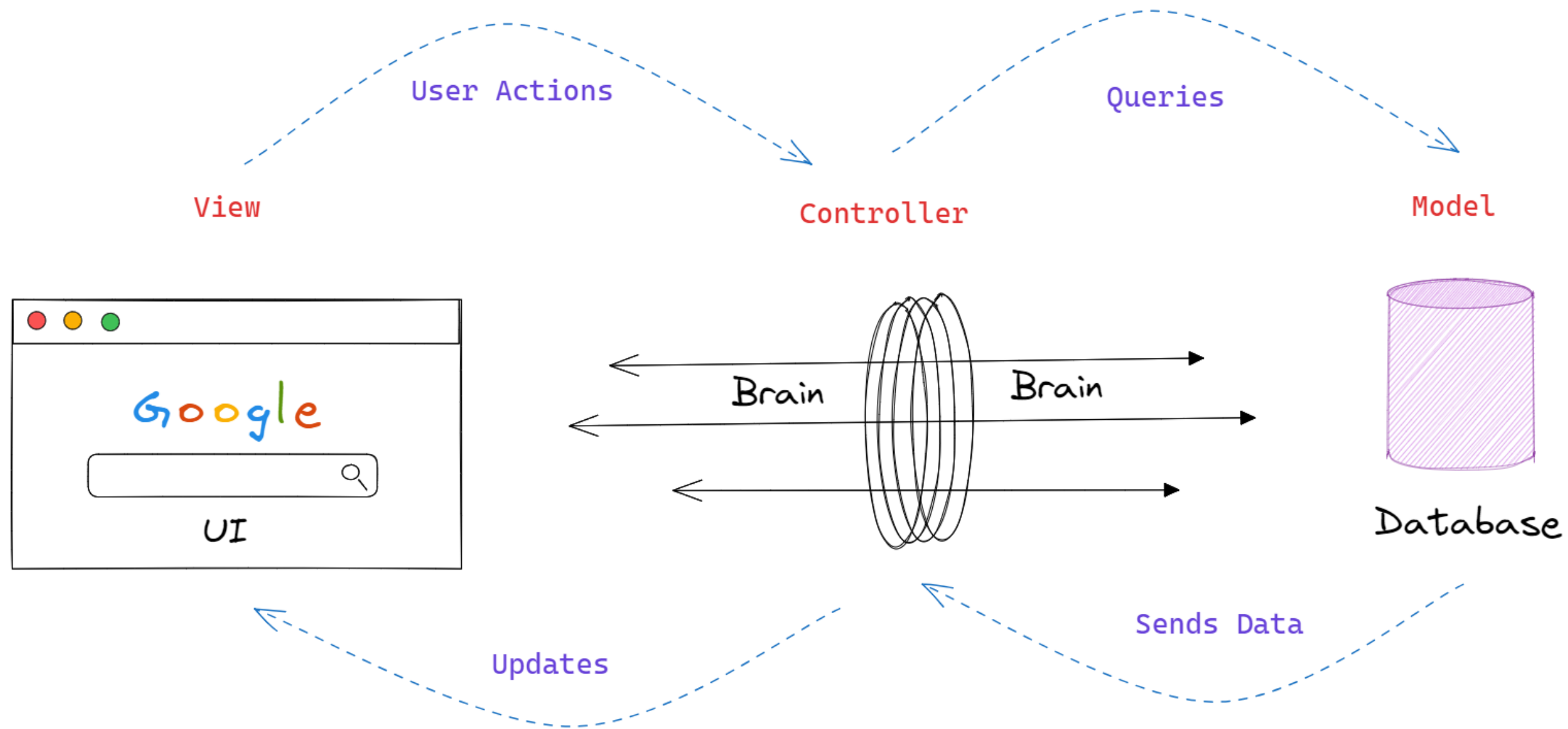
**SUBJECT MATTER EXPERT & SUPPORT INSTRUCTOR, OSTAD**



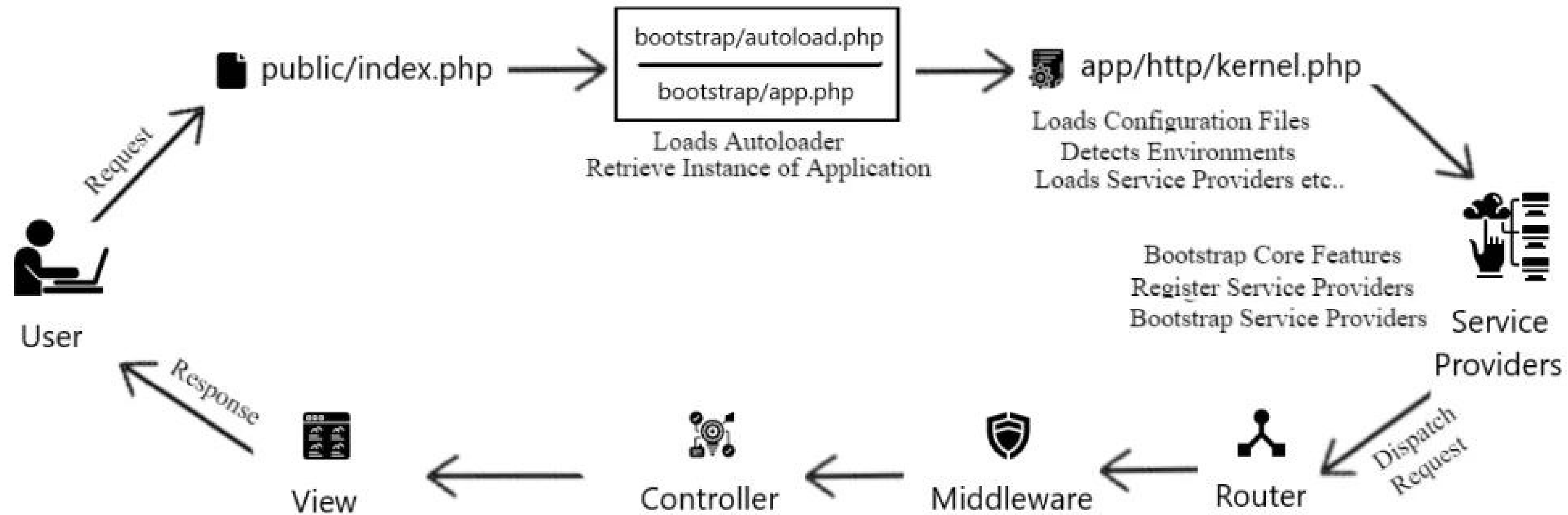
# Topics to be covered

- **MVC (Model View Controller) Architecture**
- **Request Lifecycle**
- **Introduction to Laravel Project Structure**
- **Mastering in Laravel Routes**
- **Postman Simulation of API Routes**
- **Introduction to Artisan Commands**
- **Introduction to Laravel Controller**
- **Introduction to Laravel View**
- **Introduction to Laravel Model**

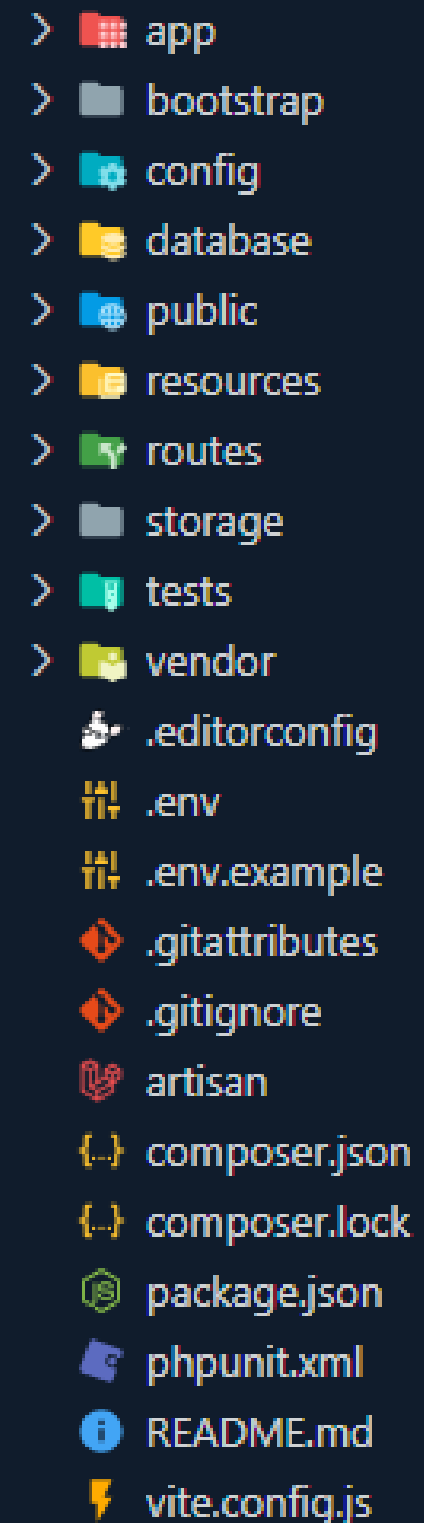
# MVC (Model View Controller) Architecture



# Request Lifecycle



# Introduction to Laravel Project Structure



- > app
- > bootstrap
- > config
- > database
- > public
- > resources
- > routes
- > storage
- > tests
- > vendor
- .editorconfig
- .env
- .env.example
- .gitattributes
- .gitignore
- artisan
- composer.json
- composer.lock
- package.json
- phpunit.xml
- README.md
- vite.config.js

# Introduction to Artisan Commands

1. **`php artisan list`**
  - Displays a list of all available Artisan commands.
2. **`php artisan help command-name`**
  - Provides help for a specific Artisan command.
3. **`php artisan make:controller ControllerName`**
  - Generates a new controller class with the specified name.
4. **`php artisan make:model ModelName`**
  - Creates a new Eloquent model class with the specified name.
5. **`php artisan make:migration migration-name`**
  - Generates a new database migration file with the specified name.
6. **`php artisan migrate`**
  - Runs pending database migrations to update the database schema.
7. **`php artisan db:seed`**
  - Seeds the database with data using the seed classes defined in your application.
8. **`php artisan make:middleware MiddlewareName`**
  - Generates a new middleware class with the specified name.

# Introduction to Artisan Commands

9. **`php artisan make:auth`**
  - Scaffolds basic login and registration views and controllers for authentication.
10. **`php artisan route:list`**
  - Lists all registered routes in your application.
11. **`php artisan make:factory FactoryName`**
  - Creates a new model factory for generating model instances.
12. **`php artisan tinker`**
  - Opens an interactive shell for interacting with your application and its models.
13. **`php artisan optimize`**
  - Optimizes the application for better performance by generating a class map.
14. **`php artisan key:generate`**
  - Generates a new application key for secure sessions and other encrypted data.
15. **`php artisan make:job JobName`**
  - Creates a new job class for handling background tasks.
16. **`php artisan make:notification NotificationName`**
  - Generates a new notification class for sending notifications.
17. **`php artisan make:command CommandName`**
  - Creates a new Artisan command class.

# Introduction to Artisan Commands

18. ``php artisan make:provider ProviderName``
  - Generates a new service provider class.
19. ``php artisan make:request RequestName``
  - Creates a new form request class for handling HTTP request validation.
20. ``php artisan make:test TestName``
  - Generates a new PHPUnit test class for testing your application.
21. ``php artisan route:cache``
  - Caches the route list to improve application performance.
22. ``php artisan route:clear``
  - Clears the route cache.
23. ``php artisan cache:clear``
  - Clears the application cache.
24. ``php artisan view:clear``
  - Clears the view cache.
25. ``php artisan config:clear``
  - Clears the application configuration cache.
26. ``php artisan make:view ViewName``
  - Generates a new view(blade) file with the specified name.
27. ``php artisan optimize:clear``
  - Removes cached optimization files, including compiled Blade views, cached configuration files, and cached route files.



**Thank You**

