

## Day - 1

### PHP Fundamentals Review

- **PHP Basics Review**
  - Recap of PHP syntax, variables, and data types
  - Control structures: if statements, loops, switch cases
  - Functions and their usage
- **PHP Arrays and Functions**
  - Understanding arrays: indexed, associative, multidimensional
  - Array functions: manipulation, iteration, sorting
  - Creating and using custom functions
- **Object-Oriented Programming (OOP) in PHP**
  - Introduction to OOP concepts: classes and objects
  - Properties, methods, and visibility in classes
  - Inheritance, polymorphism, and encapsulation

## Day - 2

### Advanced PHP Concepts

- **PHP Exception Handling**
  - Handling errors and exceptions in PHP
  - Custom exception classes
  - Using try-catch blocks for error handling
- **PHP Namespaces and Autoloading**
  - Understanding namespaces and their benefits
  - Autoloading classes using PSR-4 standards
  - Organizing code using namespaces

## Day - 3

### Laravel Fundamentals Review

- **Review of Laravel Basics**
  - Recap of Laravel directory structure, MVC architecture
  - Review of routing, controllers, and views
  - Overview of Blade templating engine
- **Advanced Routing Techniques**
  - Route model binding and implicit model binding
  - Named routes and route groups
  - Middleware usage for route protection and manipulation

## Day - 4

### Advanced Laravel Concepts

- **Advanced Eloquent ORM and Relationships**
  - Querying relationships with Eloquent
  - Advanced query constraints: whereHas, withCount, etc.
  - Polymorphic relationships and pivot tables
- **Authentication and Authorization**
  - Customizing authentication views and routes
  - Role-based authorization with Gates and Policies
  - Social authentication using services like OAuth

### Advanced Laravel Features and Deployment

- **Queues, Events, Testing, and Deployment**
  - Implementing queues and job scheduling
  - Event handling and broadcasting with WebSockets
  - Writing test cases with PHPUnit
  - Deployment strategies and best practices