

Objective:

By the end of Day 1, you should be able to set up Symfony, understand its directory structure, and create a basic Symfony project with routing and controllers.

Morning Session: Introduction to Symfony

1. Overview of Symfony Framework

- Understand what Symfony is and why it's a powerful choice for web development.
- Learn about the MVC (Model-View-Controller) architecture in Symfony.
- Explore the key features of Symfony such as routing, templating, security, and Doctrine (ORM).
- Discover the individual Symfony components and how they can be used independently.

2. Setting Up Symfony

- Learn how to install Symfony using Composer, the dependency management tool.
- Get introduced to Symfony Flex, the new way to set up and manage Symfony projects.
- Create a new Symfony project from scratch.

3. Symfony Directory Structure

- Explore the key directories and files in a Symfony project, including:
 - `src/`, `public/`, `config/`, `templates/`, `var/`, and `vendor/`.
 - Understand the role of the `config/routes.yaml` file for defining application routes.
 - Learn about the `public/` directory and its role as the web server root.
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Afternoon Session: Routing and Controllers

1. Introduction to Routing

- Understand how routing works in Symfony and how it maps URLs to controllers.
- Learn the different ways to define routes in Symfony (YAML, annotations, XML).
- Explore how to add routes in the `config/routes.yaml` file to make different pages accessible.

2. Creating Controllers

- Learn about controllers and their role in handling HTTP requests.
- Discover how to create controllers in the `src/Controller` directory.
- Understand how to map routes to controller actions using routing configurations.

3. Twig Templating Engine

- Get introduced to Twig, the default templating engine in Symfony.
- Learn how to render views from controllers using Twig templates.

- Understand how to store and organize your templates in the `templates/` directory.
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Evening Session: Hands-On Practice

1. Creating a Simple Symfony Application

- Practice creating a basic Symfony application that displays a simple message on the homepage.
- Learn how to create multiple routes and map them to different controller actions.

2. Working with Twig Templates

- Practice rendering dynamic content within Twig templates.
 - Learn how to pass data from controllers to Twig templates and display it on the page.
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Assignment for Day 1:

- **Create a basic Symfony project** that:
 - Displays a homepage with a greeting message.
 - Adds a second page (like an "About" page) that provides a brief description of the application.
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Required Tools:

- **Composer:** For managing PHP dependencies.
- **Symfony CLI** (optional): For easier Symfony project management.

Homework (Optional):

- Set up your local development environment (Apache, Nginx, or Symfony's built-in server).
- Install Symfony on your local machine using Composer or Symfony CLI.