

Bottle Framework

Day 1: Introduction to Bottle and Basic Concepts

- Introduction to the Bottle web framework
- Setting up a development environment (Python, virtual environment)
- Installing Bottle and creating a simple "Hello World" application
- Overview of Bottle's minimalist design and philosophy
- Route handling and URL patterns in Bottle
- Templating with Bottle (using the built-in template engine or external libraries)
- Handling static files and media in Bottle
- Request and response objects in Bottle

Day 2: Advanced Bottle Features and Components

- Working with request and response headers
- Forms and form handling in Bottle
- Sessions and cookies in Bottle applications
- Handling redirects and error pages in Bottle
- Building RESTful APIs with Bottle
- Middleware in Bottle for custom request processing
- Testing Bottle applications (unit testing with built-in tools)
- Error handling and logging in Bottle

Day 3: Deployment, Best Practices, and Project Development

- Deploying Bottle applications (using various servers or interfaces)
- Integrating Bottle with databases (e.g., SQLite, MongoDB)
- Security best practices in Bottle applications
- Performance optimization and caching strategies
- Building a complete Bottle application from scratch
- Handling Cross-Origin Resource Sharing (CORS) in Bottle