CherryPY Framework

Day 1: Introduction to CherryPy and Basic Concepts

- Introduction to CherryPy web framework
- Setting up a development environment (Python, virtual environment)
- Installing CherryPy and creating a simple "Hello World" application
- Overview of CherryPy architecture and design principles
- Request handlers and basic routing in CherryPy
- Templating with CherryPy (using built-in tools or external libraries)
- Handling static files and media in CherryPy
- Overview of CherryPy configuration options

Day 2: Advanced CherryPy Features and Components

- Working with CherryPy tools and plugins
- CherryPy middleware and custom request processing
- Sessions and authentication in CherryPy applications
- Using CherryPy decorators for route configuration
- RESTful API development with CherryPy
- Testing CherryPy applications (unit testing with built-in tools)
- Error handling and logging in CherryPy
- Advanced configuration options and optimization techniques

Day 3: Deployment and Best Practices

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