



2-Day Workshop Plan

Flask development using Python

Day	Time	Activity
Day 1	10:00 AM - 10:45 AM	Introduction to Flask: What is Flask? Overview of Flask framework, Setting up Flask environment and installation
Day 1	10:45 AM - 11:30 AM	Flask Structure and Routing: Understanding routes, URL patterns, and HTTP methods (GET, POST, PUT, DELETE)
Day 1	11:30 AM - 11:45 AM	Break (15 minutes)
Day 1	11:45 AM - 1:00 PM	Building a Basic Flask App: Creating a simple "Hello World" app, Understanding templates, static files, and Flask's request/response cycle
Day 1	1:00 PM - 2:00 PM	Lunch Break (1 hour)
Day 1	2:00 PM - 2:45 PM	Working with HTML Forms in Flask: Handling form data, Using Flask-WTForms, Processing form submissions
Day 1	2:45 PM - 4:00 PM	Hands-On: Building a Basic CRUD App: Create a small web app that adds, edits, and deletes items (using in-memory data)
Day 1	4:00 PM - 4:15 PM	Break (15 minutes)
Day 1	4:15 PM - 5:00 PM	Q&A and Day 1 Wrap-Up: Recap of concepts, Discuss next steps for Day 2, Overview of templates and forms



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Day	Time	Activity
Day 2	10:00 AM - 10:45 AM	Advanced Routing in Flask: URL converters, Dynamic routes, Handling URL parameters and query strings
Day 2	10:45 AM - 11:30 AM	Flask with Databases: Introduction to SQLAlchemy, Setting up SQLite or PostgreSQL with Flask, ORM basics
Day 2	11:30 AM - 11:45 AM	Break (15 minutes)
Day 2	11:45 AM - 1:00 PM	CRUD Operations with SQLAlchemy: Implementing database operations in Flask (Create, Read, Update, Delete)
Day 2	1:00 PM - 2:00 PM	Lunch Break (1 hour)
Day 2	2:00 PM - 2:45 PM	User Authentication: Implementing user login and registration, Flask-Login for session management
Day 2	2:45 PM - 4:00 PM	Hands-On: Creating a Flask Blog: Build a blog with database integration, user authentication, and CRUD functionality
Day 2	4:00 PM - 4:15 PM	Break (15 minutes)
Day 2	4:15 PM - 5:00 PM	Q&A and Final Wrap-Up: Review of concepts, Discuss deploying Flask apps (Heroku), Final tips and certification distribution



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