



102 Workshop: Web API Development using Python (Day 3)

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Recap

- Persistent Storage with JSON
- Error Handling & Status Code
- Path Parameters, Query Parameters, Filtering



API Flow

- Client
- Request
- Server
- API Framework
- API Endpoint
- Function
- Database
- Response
- JSON



API Projects

- Movies/Restaurant Reviews API
 - CRUD for movies
 - CRUD for reviews
 - Each review should have an associated movies ID
- Inventory Management API
- User Management API
- Customer Relationship Management API



API Projects

- Inventory API
 - Filter by category & brand
- Hotel booking API
 - 2 data.json files
 - one to many relationship
- Farmers API
 - multiple query parameters
 - location, crop_type, etc
- Birthday API
 - days till birthday
 - web UI
- Pokedex API
 - nested dictionaries
- Users API
 - single use endpoint
 - pagination
- Weather API
 - filters apply to multiple fields
- Book management API
 - Auto ID
- Pedit API
 - Up and down vote



Additional Topics

- Cloud database
- Authentication and Authorization
- OpenAPI Doc
- Deployment
- Integrating APIs – using Python
- AI Code Generation
- CORS



Wrap Up

- Next steps
 - Go through the slides again to review concepts
 - Improving the Task Manager API
 - Completing your own API
 - Build a frontend html page to interact with your API
 - Look into securing and deploying your API
- Refer to FastAPI documentation at any time



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Q&A Session





Thank you

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