

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

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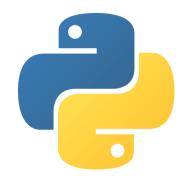
#### Content

- 1. Recap
- 2. API Flow
- 3. API Project Hands On
- 4. Team showcase
- 5. Frontend Demo
- 6. Additional Topics
- 7. Wrap Up



## 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
- Al 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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