



Python Developer Assignment (1+ Years Experience)

Objective:

Build a simple **Booking API** for a fictional fitness studio using Python. The goal is to evaluate your coding skills, design thinking, and understanding of backend development principles.

Requirements:

Scenario:

A fitness studio offers classes like Yoga, Zumba, and HIIT. Clients should be able to view available classes and book a spot.

Tasks:

1. API Endpoints to Implement:

- **GET /classes**
 - Returns a list of all upcoming fitness classes (name, date/time, instructor, available slots)
- **POST /book**
 - Accepts a booking request (class_id, client_name, client_email)
 - Validates if slots are available, and reduces available slots upon successful booking
- **GET /bookings**
 - Returns all bookings made by a specific email address



Technical Expectations:

- Use **Python** with any backend framework of your choice (**Django**, **Flask**, or **FastAPI** preferred)
 - Use an in-memory DB like SQLite or store data in a file (no need to set up a full DB)
 - Write **clean, modular, and well-documented code**
 - Timezone management: Classes created in IST and on change of timezone all the slots should be changed accordingly
 - Handle **errors and edge cases** (e.g., overbooking, missing fields)
 - Add basic **input validation**, logging, or unit tests
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Deliverables:

- A public GitHub repo or zip file containing:
 - Source code
 - Sample input data or seed data
 - README with setup instructions and sample cURL or Postman requests

Submit a Loom Video with a walkthrough of the entire assignment (Mandatory)

Timeline: Submit within 3 working days

Evaluation Criteria:

- Code readability and structure
- API design and functionality
- Error handling and validation



- Use of good practices (DRY, modularity, naming, etc.)
- Bonus: Basic tests, thoughtful documentation, creativity