

Python Course: Professional Documentation

1. Overview

This documentation covers the 'py_course' repository, a structured Python learning path from core basics to modular application development. The project demonstrates proficiency in Python syntax, file handling, and modular software design.

2. Workflow & Architecture

The application follows a modular architecture:

- Validation Layer: Ensures clean data entry using Regex.
- Authentication Layer: Manages user lifecycle (Signup, Login, Activation).
- Logic Layer: Handles CRUD operations for project management.
- Storage Layer: Uses JSON files for persistent data storage.

3. Directory Structure

```
py_course/  
|-- day01/ (Basic Logic)  
|-- day02/ (Functions & Data Structures)  
|-- day03/ (Main Application)  
    |-- app.py (Main Runner)  
    |-- modules/ (Logic Units)  
    |-- data/ (JSON Files)
```