

Day 1 - FastAPI Coding Tasks (Updated)

Date: July 17, 2025

1. Create a FastAPI app with a single GET route at '/' that returns a welcome message as JSON.
2. Add a new GET route at '/about' that returns a dictionary with your name and role (e.g., Data Scientist).
3. Create a dynamic GET route '/hello/{name}' that takes a name as a path parameter and returns a personalized message.
4. Create a GET route '/square/{num}' that takes an integer path parameter and returns its square.
5. Create a GET route '/items/' that accepts a query parameter 'category' and returns a list of items based on category.
6. Create a POST route '/feedback/' that accepts a JSON body with fields: 'user' and 'message' and returns them back.
7. Add a route '/sum/' that takes two query parameters 'a' and 'b' and returns their sum as JSON.
8. Add a POST route '/login' that accepts a JSON with 'username' and 'password' and returns 'Login successful' if username == 'admin' and password == '123'.
9. Create a GET route '/wordcount/' that takes a query parameter 'text' and returns the total number of words in the text.
10. Save all your work in a folder named 'day1', include this PDF, and upload to GitHub.