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Project Description

The Hospital Patient Record Analyzer is a Python project that uses data from a file called hospital.json. The program will read, organize, and show information about hospital patients,such as how many times they visited and which doctors they met.

The main goal is to practice using Python and JSON data to summarize and report. This project will also help us learn how hospitals can use data to check patient activity and doctor performance.

### Dataset Information

Dataset Name**:** hospital.json  
 Contents:

* Patient name
* Age / gender (if applicable)
* Doctor/s consulted
* Number of hospital visits
* Reason for visit or department (optional field)
* Date of last visit

## **Planned Features**

### **Starter Features (from the guide):**

1. Count how many visits a patient has made.
2. List the doctors a patient has consulted.

### **Additional Features (our own ideas):**

1. Find the most visited doctor.
2. Find the patient with the most visits.
3. Get the average number of visits per doctor.

## Expected Output and Presentation

* Show results clearly
* Shows all inofrmation
* Show summaries like:  
  + Total number of patients
  + Top 3 most visited doctors
  + Average visits per patient
  + Doctor visit summaries

EXAMPLE OUTPUT

HOSPITAL PATIENT RECORD ANALYZER

Total Number of Patients: 10

Total Number of Doctors: 5

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Patient Name | Number of Visits | Doctors Consulted

Juan Dela Cruz | 12 | Dr. Santos, Dr. Reyes

Maria Lopez | 8 | Dr. Cruz

Pedro Ramirez | 5 | Dr. Santos

Ana Dizon | 9 | Dr. Lim, Dr. Reyes

Jose Tan | 3 | Dr. Cruz

Most Visited Doctor: Dr. Santos (Total Visits: 26)

Patient with the Most Visits: Juan Dela Cruz (12 visits)

Average Visits per Patient: 7.4

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Top 3 Most Visited Doctors

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1. Dr. Santos - 26 visits

2. Dr. Cruz - 18 visits

3. Dr. Reyes - 15 visits

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Most Common Department: General Medicine

Summary

This project will help organize and study hospital records using Python. It will show helpful summaries about patients and doctors, including which patient visited the hospital the most times, while helping us practice programming and data analysis.