

## **DIAGRAM GUIDES**

I couldn't start creating a diagram explanation for each one so I basically just found the best videos that would clearly explain each of them to you and I will attach their links in this file

### DATA FLOW DIAGRAM

[Link to Video](#)

# How to Create a Data Flow Diagram

(Level 1 example)

## 1. Identify System Scope

- Write a simple sentence on what the system \*does\*.  
**E.g. The system processes user requests to deliver location-based health advice.**

## 2. List External Entities

- Identify people or systems interacting \*with\* your system.
- Public User
- Weather API
- Air Quality API

## 3. List Processes

- Create labels for the system's key data-processing tasks.
- Validate input
- Fetch weather
- Fetch air quality
- Generate advice

## 4. List Data Stores

- Where your system keeps data.
- Location lookup store
- Weather snapshots
- Advice lookup rules

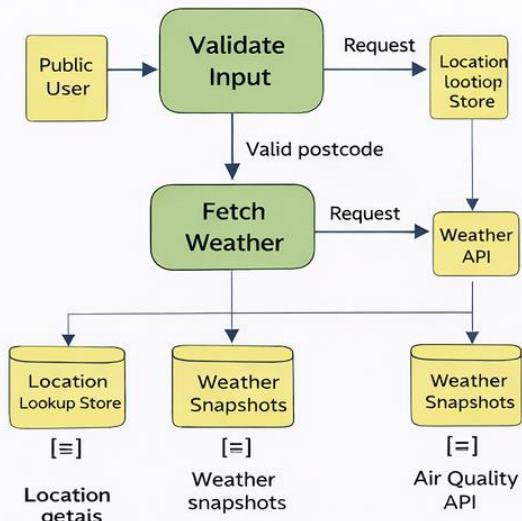
## 5. Draw Relationships

- Use these symbols:
  - Square box: External Entity
  - Circle/rounded box: Process
  - Two parallel lines: Data Store
  - Arrow: Data Flow

## 6. Review for Completeness

- Is every data store connected to at least one process?
- Does every process receive and output some flow?
- Are flows labeled clearly?

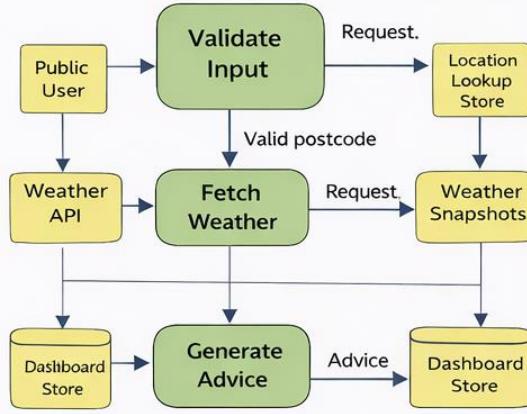
## Health Advice System (Level 1)



Legend

— External Entity — Data Store

→ Process → Data Flow



## Final Checklist Before Submission:

- All symbols correctly labeled
- Flows are clear and directional
- Meaningful names for processes
- No data stores connected directly without a process handling data

## **ENTITY RELATIONSHIP DIAGRAM**

[Link to Video PART 1](#)

[LINK TO VIDEO PART 2](#)

## **UML SEQUENCE DIAGRAM**

[LINK TO VIDEO](#)

## **UML USE CASE DIAGRAM**

[LINK TO VIDEO](#)