Great question, Fahad! Let me show you how to **connect all the concepts and practical examples** into a clear, powerful explanation for your live session.

**🔗 How to Connect Everything Together**

**✅ Start with the Big Picture:**

“Today we’ll move from *understanding test design techniques* to *applying them in a real scenario*. We’ll also practice writing test cases manually based on actual logic.”

**🧠 Flow of Explanation**

**1. Real-Life Scenario Introduction (Context Setting)**

Introduce your custom app:

🗣️ *“Let’s imagine we’re testing a registration form for a website where users must be between 18–60, must accept terms, and the Admin role has special access.”*

Show the HTML form live in browser.

**2. Link with Test Case Design Techniques**

**🔹 Equivalence Partitioning (EP)**

* **What:** Divide inputs into valid and invalid groups.
* **Example:**
  + Age:
    - Valid: 18–60
    - Invalid: <18, >60
  + Password: ≥8 valid, <8 invalid

🧪 Show live: Input age 25, 17, 61 and observe.

**🔹 Boundary Value Analysis (BVA)**

* **What:** Focus on edges (boundaries) of input partitions.
* **Example:**
  + Test age: 17, 18, 60, 61

🧪 Show live: Enter 18 and 60 → Valid  
🧪 Enter 17 and 61 → Invalid

**🔹 Decision Table**

* **What:** Use logic combinations to validate behavior
* **Rules Example:**
  + If Role = Admin AND Terms = Checked AND Valid Age & Password → Access Granted
  + Any one condition false → Deny

🧪 Show live: Select "admin", enter valid age/password, check terms → 🎉 Message shown

**3. Manual Test Case Design**

Switch to your Excel Sheet:

* Explain each column
* Show how test cases cover EP, BVA, and Decision logic

🧪 Fill out 1 test case live with the audience

**4. Practice Task for Audience**

“Now that you’ve seen how it’s done, I’ll give you 2 mins to write test cases for:

* A user age 17, password 123456, role user, terms = not accepted.”

Then review/test their answers with your HTML form.

**🎁 Bonus Tips**

| **Element** | **Use** |
| --- | --- |
| HTML Form | Demonstrate logic & test input |
| Excel | Document test cases and show practical reporting |
| Code | Optional backend logic for form validation |
| Live Demo | Keep audience engaged |

**🧩 Final Wrap-up**

“We started from theory, walked into a practical form, applied EP, BVA, Decision Tables, and even wrote manual test cases — just like we’d do in real projects.”

Would you like a **presentation slide template** for this flow too?