

State 3 cases that ViewModel is a must and one of this cases Security case?

Here are **3 situations where using a ViewModel is a must**, including one **security-related case**:

1. Combining Data from Multiple Sources (Composite Data)

- When you need to display data from **multiple entities** in a single view.
- Example: Showing **Department info** and its **Students list** on the same page.

2. Protecting Sensitive Data (Security Case)

- If your model contains **sensitive fields** like PasswordHash, CreditCardNumber, or Salary, sending the full model to the view can expose this data.
- Solution: Use a **ViewModel** that includes **only safe fields** to display.

3. Preparing Data for the UI (Customized Data)

- Sometimes raw data isn't directly suitable for display.
- Example: You store only Age, but in the UI, you need to show:
 - "Adult" if Age > 18
 - "Minor" if Age ≤ 18
- A ViewModel can provide a calculated property like Status for this purpose.