(Big) Data Engineering In Depth

From Beginner to Professional

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The Definitive Guide to Big Data Engineering Tasks

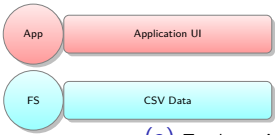
Videos classification

Watching Method / Audience	Computer	Mobile/Tablet	Just listening
Developer		●	
DevOps		●	
Business		●	

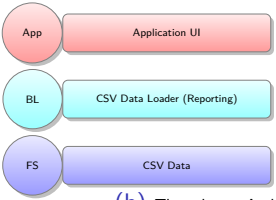
Table: Video classification
The green circle ● means short video.
The blue circle ● means medium video.
The red circle ● means long video

Section: Data Abstraction

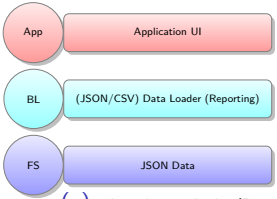
Motivation to Data Layers (Use Case)



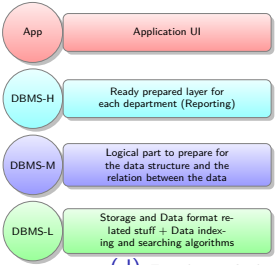
(a) Two layers Arch. (Data & UI)



(b) Three layers Arch. (Data & BL & UI)



(c) Three layers Arch. (Data (multi-sources) & BL & UI)



(d) Four layers Arch. (DB (L, M, H) & UI)

Figure: Data Abstraction Journey

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- To answer these questions you need to understand the **data layers**.

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- The process of **hiding** irrelevant details from the developer (user) is called data **abstraction**.

Data Layers (Abstraction)

Definition

Data Abstraction and Data Independence: DBMS comprises complex data-structures. To make the system efficient in terms of retrieval of data and reduce complexity in terms of usability of users, developers use abstraction i.e., hide irrelevant details from the users. This approach simplifies database design.

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  - View Level.

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