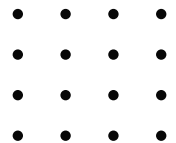


Data Modeling Patterns

SEMI STRUCTURED DATA USING JSON



What is Semi-Structured Data?

- Not purely structured, and also not completely unstructured
- Contains some level of organization but not a rigid schema





Key Characteristics of Semi-Structured Data

Flexible Schema

Does not adhere to a strict, predefined schema

Partial Consistency

Not all data instances need to have the same attributes

Scalable

Labels and tags, making it more accessible

Hierarchy

Enabling the representation of nested and related data elements





Semi-Structured Data Example

- 01** Emails
- 02** XML, JSON, CSV
- 03** Web Pages
- 04** NoSQL Databases



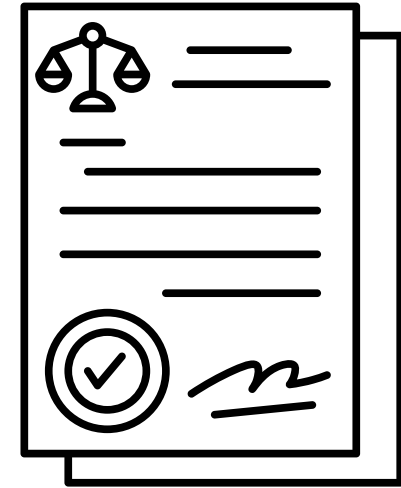
JSON(JavaScript Object Notation)

- Lightweight
- Human-readable
- Easy for machines to parse and generate,
- Organizes data in key-value pairs
- Supports nested structures.

```
{  
  "article_id": 3214507,  
  "article_link": "http://sample.link",  
  "published_on": "17-Sep-2020",  
  "source": "moneycontrol",  
  "article": {  
    "title": "IT stocks to see a jump this month",  
    "category": "finance",  
    "image": "http://sample.img",  
    "sentiment": "neutral"  
  }  
}
```

Legal Document in JSON

- The Indian Penal Code (IPC) of 1860
- The Civil Procedure Code (CPC) of 1908
- The Hindu Marriage Act (HMA) of 1955



JSON(JavaScript Object Notation)

Current Text

- Content
- POS Tagging of Content

Law Name

- POS Tagging of Law Name

Title

- Title Name
- POS Tagging of Content
 - Chapter
 - Chapter Name
 - POS Tagging
 - Article
 - Article Content
 - POS Tagging

Transient

- Content
- POS Tagging of Content



Thank You

