**XML Schema:**

* We Know that XML helps us to store & transfer the data
* When sending data from one application to an another, it is essential that both applications have the same “expectations / agreement” about the content/data
* For example, A data like “03-11-2004”
* In some countries, be interpreted as 3rd November
* In other countries as 11th March
* With XML Schemas, the sender application can describe the data in a way that the receiver application will understand
* **Schema** **is nothing but a “Structure”.**

It is a formal description of structure of an XML

i.e.

- Which elements are allowed?

- Which elements must be present?

- Which elements are optional?

- The sequence and relationship of the elements, etc.

* For Example,
* Abc@gamil.com is a Valid Email ID, However
* abc@gmail is Invalid because there is “NO @ and . “
* Hence email schema looks something like

[Some-name@domain-name.com](mailto:Some-name@domain-name.com)

* **Schema “does not validate a data” instead “it validates the structure”**
* There are two ways to define a Schema for XML documents

1. Document Type Definition (DTD)
2. XML Schema Definition (XSD)