

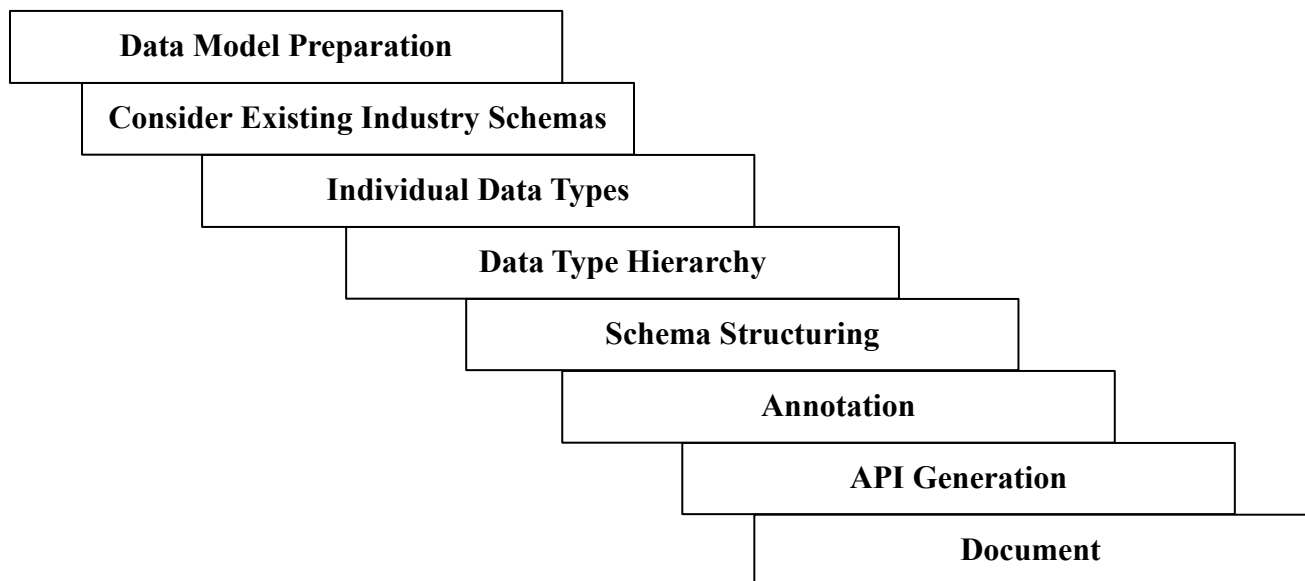
Design A W3C XML Schema

**Namespaces, Data Type Considerations, ComplexType, SimpleType, Facets,
Type extension/restriction/substitution, Hierarchy, Structure,
Leveraging industry schemas, Validation, Multiple schemas and referencing**

Overview

W3C XML Schemas are the modern approach to data definition. They are a contract, between instance document producers and consumers, that define the XML data that may appear within documents they share. Creating W3C XML Schemas is a complex task, especially if the aim is to produce schemas that are architecturally sound, sensible structure data, fit well with existing schemas, and are easy to evolve. If you need to define high-quality schemas for your project - would you like Clipcode to help? We offer the XML Schema Workshop, which is an eight-step strategy that involves an on-site engagement by an experienced XML schema designer from Clipcode working together with your project team.

Eight-Stage Strategy



- **Data Model Preparation** – Collect information about how the data model should be arranged
- **Consider Existing Industry Schemas** – Evaluate if existing industry schemas should be used – possibly as base types to be extended by custom data types, or directly as types for elements
- **Individual Data Types** – Defining the custom data types needed
- **Data Type Hierarchy** – Configuring types in a hierarchy where suitable
- **Schema Structuring** – general aspects of schema docs (include/import, extensibility, namespace)
- **Annotation** – Adding annotation elements to define semantics of data model
- **API Generation** –Generate APIs in a range of languages to programmatically produce and consume instance documents based on the schema
- **Document** – Describe in detail the layout of the schema, design decisions, etc.

Features & Benefits

Data Model Preparation	Ensures that the schema produced complies with the data model required by the project
Consider Existing Industry Solutions	Reusing parts of existing schemas can reduce workload, and greatly facilitate sharing common data across different enterprises
Individual Data Types	Having each data type defined as tightly as possible ensures that each piece of data is unambiguously understood by both producer and consumer
Data Type Hierarchy	Where appropriate, the arrangement of data types in a hierarchy (in an object oriented-like fashion), results in beneficial partitioning of data
Schema Structuring	Leads to schema modularity, extensibility and general usage
Annotation	Embeds the data semantics in the XML Schema and make them available to all schema stakeholders
API Generation	At some point, applications have to interact with instance documents – producing an API will ease this and ensure it is achieved in a consistent manner
Document	Provides detailed information of use to those who now and in the future need to work with the schema and extend it

Target Market

This service offering is aimed at software teams that need to design a W3C XML Schema for their project.

Technical Architect from Clipcode


The technical architect that Clipcode provides will have a minimum of 8 years software engineering experience, at least 3 years of actual XML development experience. This includes generic XML standards, W3C XML Schema, XSLT and XQuery.

Who Should participate from the Client

The client decides which of its people should participate – usually it is 2-4 people and would include the project manager, project technical leads and/or senior software engineers. All client attendees should be familiar with XML and have a detailed understanding of the project.

How to proceed

If you would like to arrange a XML Schema Workshop on-site in your company's offices, please contact Clipcode below. We need to discuss arrangements further, agree goals for the engagement and set a tentative schedule.

 www.clipcode.net	If your dev team is starting an important project and needs help, please contact us via email at sales@clipcode.com to discuss how we can be of assistance.
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