

**Chapter 1 : Introduction to Web X.0**
**1-1 to 1-25**

**Syllabus : Evolution of Web X.0; Web Analytics 2.0 :** Introduction to Web Analytics, Web Analytics 2.0, Clickstream Analysis, Strategy to choose your web analytics tool, Measuring the success of a website; Web 3.0 and Semantic Web : Characteristics of Semantic Web, Components of Semantic Web, Semantic Web Stack, N-Triples and Turtle, Ontology, RDF and SPARQL

**Self-learning Topics :** Semantic Web Vs AI, SPARQL Vs SQL

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## Chapter 2 : TypeScript

**2-1 to 2-24**

**Syllabus :** Overview, TypeScript Internal Architecture, TypeScript Environment Setup, TypeScript Types, variables and operators, Decision Making and loops, TypeScript Functions, TypeScript Classes and Objects, TypeScript Modules Self-learning Topics : Javascript Vs TypeScript

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**Self-learning Topics :** MVC model, DOM model, Javascript functions and Error Handling

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## Chapter 4 : MongoDB and Building REST API using MongoDB

4-1 to 4-31

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REST API: Examining the rules of REST APIs, Evaluating API patterns, Handling typical CRUD functions (create, read, update, delete), Using Express and Mongoose to interact with MongoDB, Testing API endpoints

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## Chapter 5 : Flask

**5-1 to 5-21**

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