**Chapter 7**

**AJAX**

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| **7.1** | **What is Ajax?** |
|  | Ajax stands for asynchronous JavaScript and xml  Ajax is not a programming language It’s a set of existing technologies  Ajax helps in fetching data asynchronously without interfering with existing page  No page reload/refresh  Modern website use JSON instead or XML for data transfer |
| **7.2** | **Use of Ajax** |
|  | Fetching Data  Form Submission  Real-Time Updates  Autocomplete and Suggestions , etc.. |
| **7.3** | **How to send data with Ajax Request?** |
|  | GET Request  POST Request with Form Data  POST Request with JSON Data |
| **7.4** | **Difference between get, post, put, delete method** |
|  | GET: Used for retrieving data  POST: Used for submitting  PUT: Used for updating resources  DELETE: Used for deleting resources |
| **7.5** | **JSON data** |
|  | * JSON stands for **J**ava**S**cript **O**bject **N**otation   { "employees":[   {"firstName":"John", "lastName":"Doe"},   {"firstName":"Anna", "lastName":"Smith"},   {"firstName":"Peter", "lastName":"Jones"} ] }   * Data is in name/value pairs * Data is separated by commas * Curly braces hold objects * Square brackets hold arrays |
| **7.6** | **Serialization & De-serialization** |
|  | Serialization is the process of converting data structures or objects into a format  Deserialization is the reverse process of serialization. It involves converting a serialized representation |