

React JS Training

(Intermediate to Advanced)



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Schedule for React JS Training

Day#	Date	Topic
Day-1	23-Nov-2023	State Management : Class Components
Day-2	24-Nov-2023	State Management : Functional Components, Hooks
Day-3	27-Nov-2023	Http Client Programming – AJAX Calls to APIs (Node JS)
Day-4	28-Nov-2023	Working with Forms, Validations, Services
Day-5	29-Nov-2023	Redux – State Management Library
Day-6	30-Nov-2023	Unit Testing React Application
Day-7	01-Dec-2023	Routing – SPA in React JS

Duration : 7 days (2hours per day) ; 9:30 am to 11:30 pm; 23th Nov – 1st Dec

Http Client Programming



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Index

1. Http Client Programming using React
2. Using Axios Package
3. Live API communication
4. Get, Post, Put, Delete Requests
5. CURD Operations using Node-Server (Express-MongoDb)

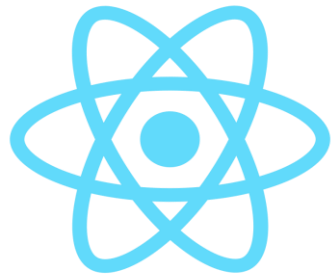
Server Communication

- AJAX
- JSON
- XmlHttpRequest / Fetch / \$.http / axios / HttpClient
- Server Side Code : Web API
- JSON Server

Server Calls - AJAX

- AJAX is client side programming technique to exchange data between client and server
- We can implement AJAX calls in React in the following ways:
 - **window.fetch() method**
 - **axios library**





Using Axios Package

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Axios Package

- Axios is a lightweight HTTP client based library
- It helps us to communicate with server.
- Installation:
- **`npm install axios --save`**





Web browser

Web server

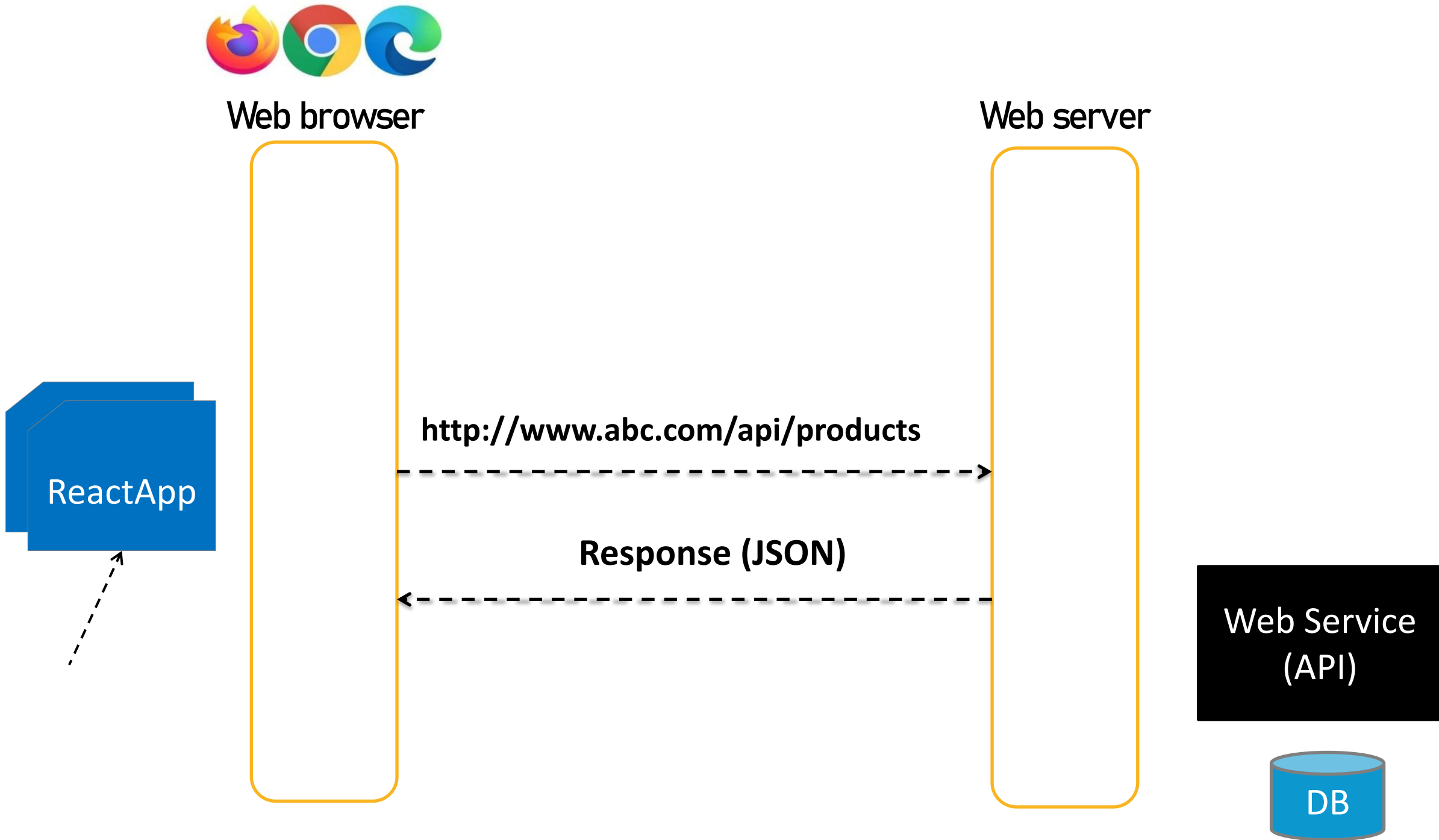


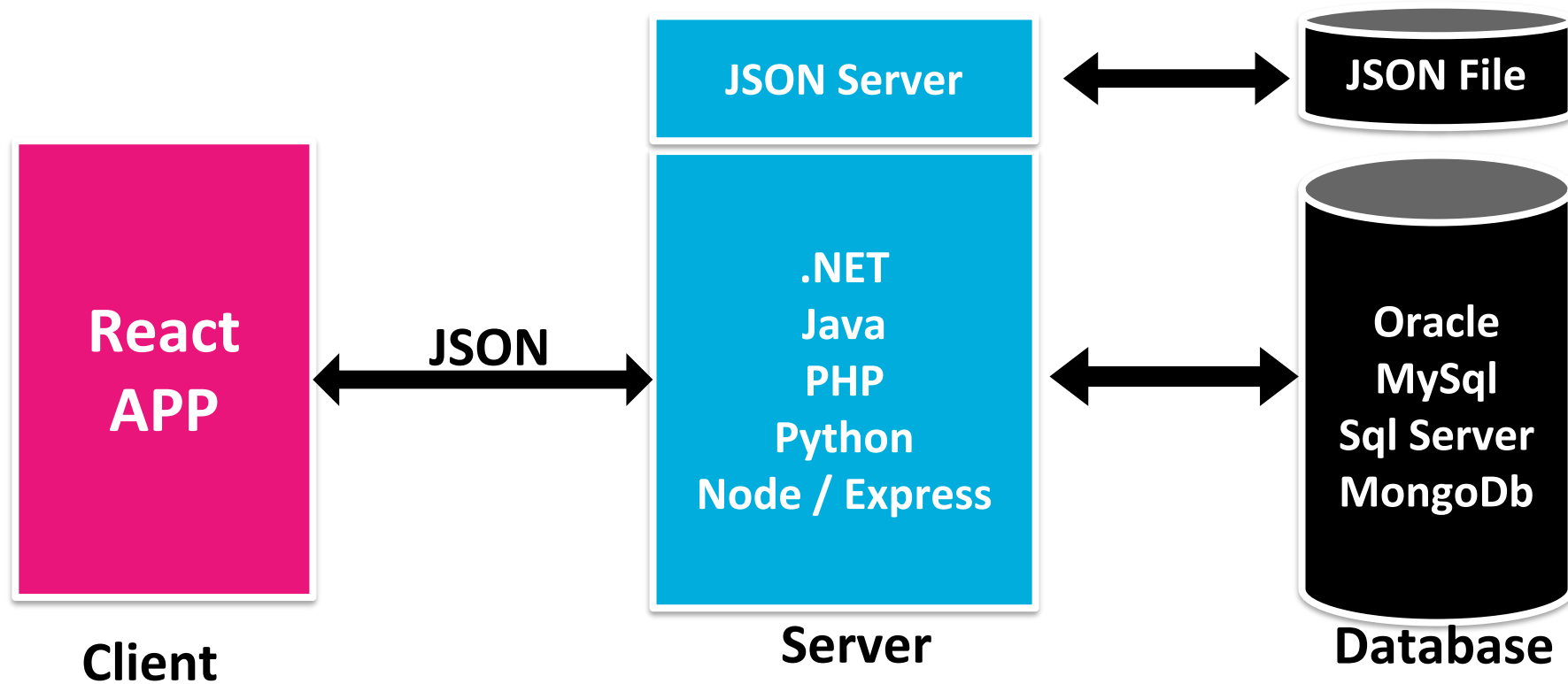
`http://www.abc.com/api/products`

Response (JSON)

Web Service
(API)

DB



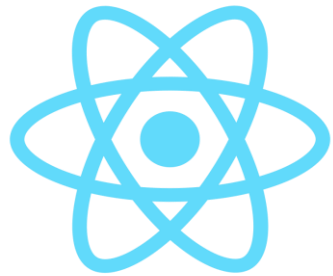


Axios Package - Usage

```
import axios from 'axios';
```

```
    axios.get(url).then(resData =>
      {
        // process the resData
      });
```



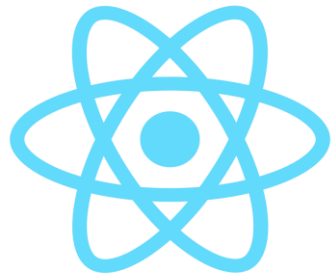


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Demo

Live API communication



CRUD Operations using AXIOS Package

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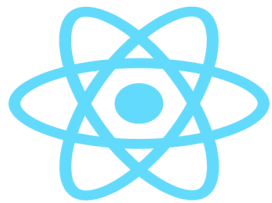
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Axios Methods for CRUD

```
CREATE    :    axios.post(url, data).then();  
READ      :    axios.get(url).then();  
UPDATE    :    axios.put(url, data).then();  
DELETE    :    axios.delete(url).then();
```



CURD Operations using Node-Server



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Node Server

- **Node** : Node.js is an open-source, cross-platform JavaScript runtime environment. We can create server side applications using node.
- **Express JS**: Web Application framework that works on top of the node js application. It makes web applications and api development easily under node environment.



MERN Stack



MongoDB



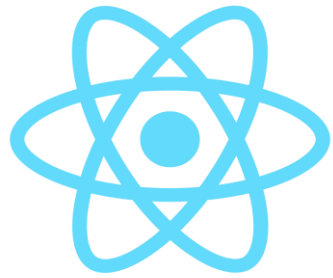
Express JS



React JS



Node JS



Perform AJAX Operations using Data Services

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React Application

Component

Data Service
Methods - CRUD

Get

AXIOS Lib.

GET

Web
server

Response

Response

Component

Component



Hands-On Implementation

Practice Hands-Ons

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