

# React JS Training

(Intermediate to Advanced)



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# Schedule for React JS Training

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Day#	Date	Topic
Day-1	16-Apr-2024	State Management : Class Components
Day-2	17-Apr-2024	State Management : Functional Components, Hooks
Day-3	18-Apr-2024	Http Client Programming – AJAX Calls to APIs (Node JS)
Day-4	19-Apr-2024	Working with Forms, Validations, Services
Day-5	22-Apr-2024	Redux – State Management Library
Day-6	23-Apr-2024	Unit Testing React Application
Day-7	24-Apr-2024	Routing – SPA in React JS

# Http Client Programming



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# Index

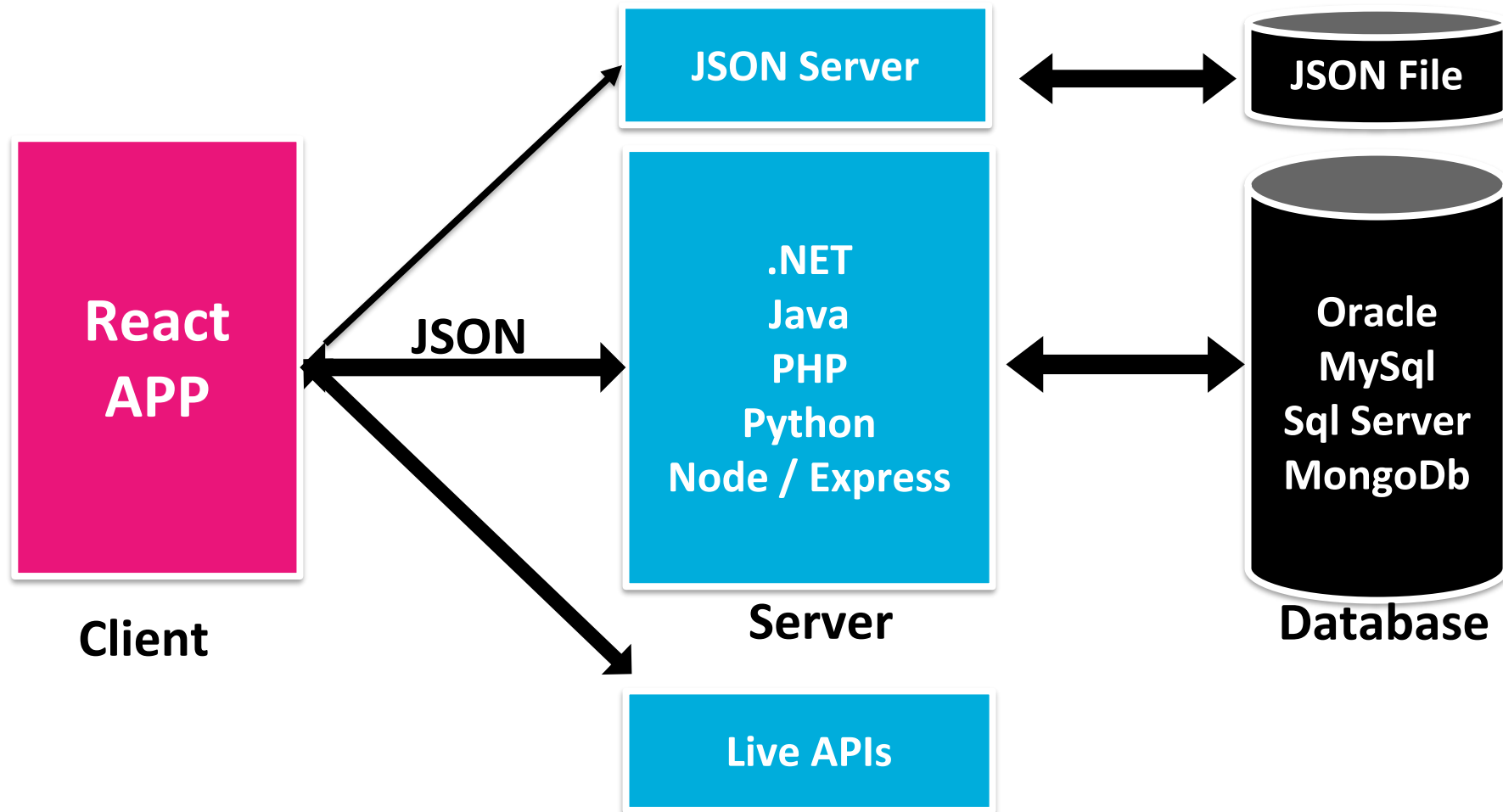
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1. Http Client Programming using React
2. Using Axios Package
3. Live API communication
4. Get, Post, Put, Delete Requests
5. CURD Operations using Node-Server (Express-MongoDb)

# Server Communication

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

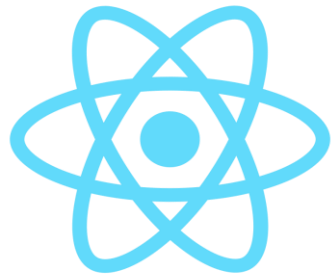


# Server Calls - AJAX

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- 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

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





Web browser

Web server



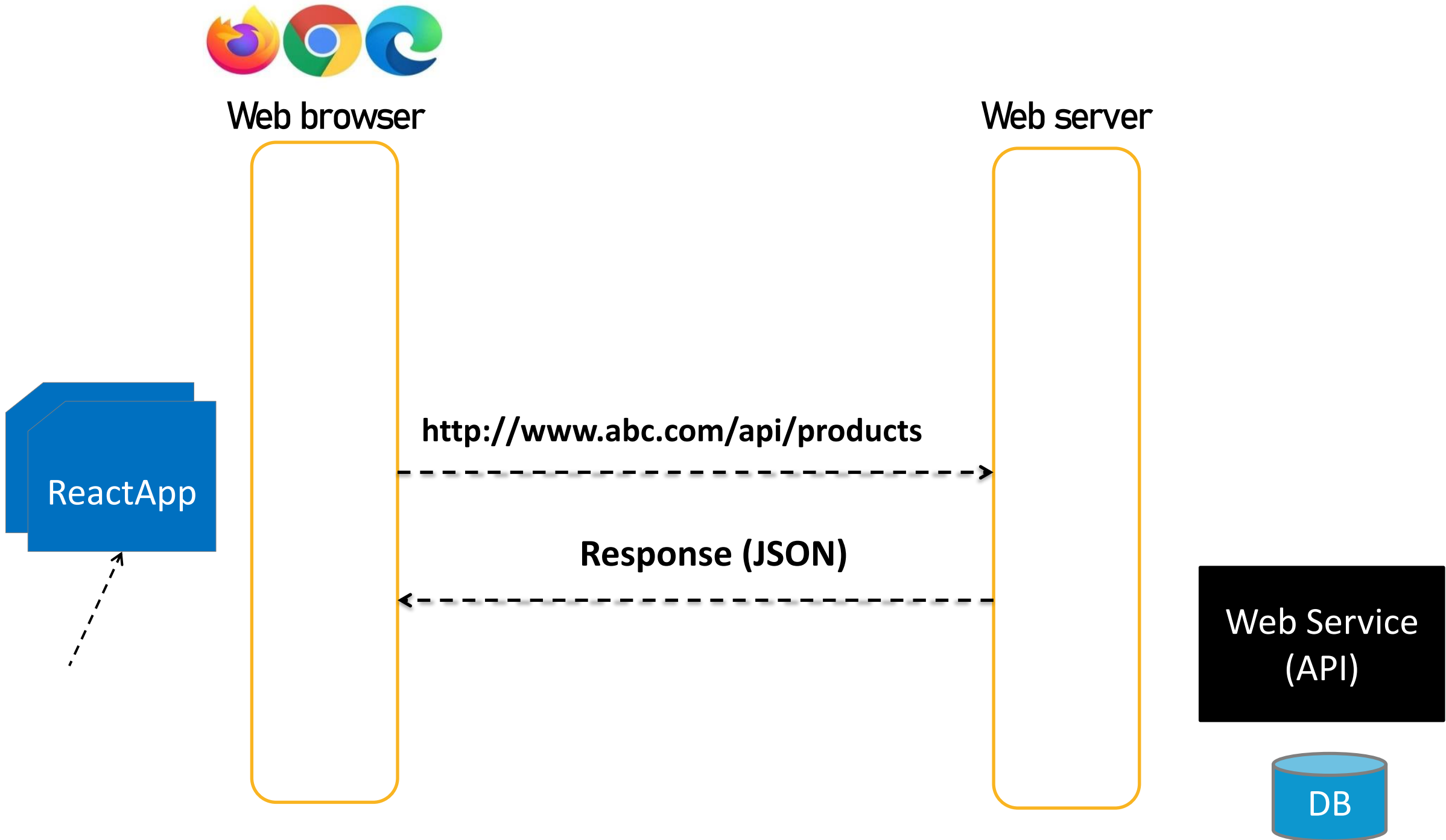
ReactApp

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

Response (JSON)

Web Service  
(API)

DB



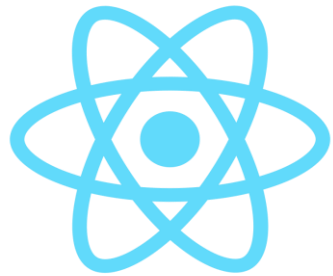
# Axios Package - Usage

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

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



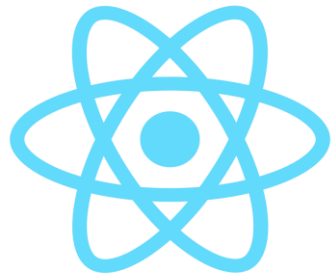


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# Demo

## Live API communication



# CRUD Operations using AXIOS Package

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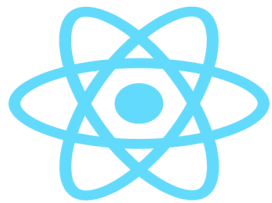
# Axios Methods for CRUD

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```
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

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- **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



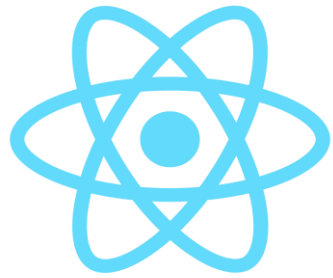
Express JS



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

Response

Response

Web  
server

Component

Component



# Hands-On Implementation

## Practice Hands-Ons

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