

# What is Full Stack Web Development?

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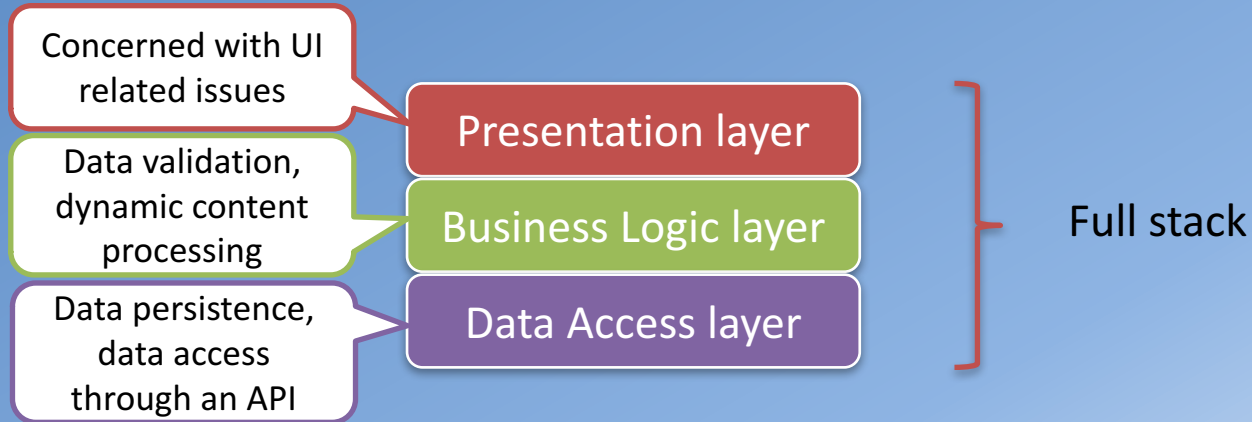


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# Front end and Back end

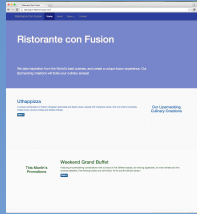
- Front end / Client-side
  - HTML, CSS and Javascript
- Back end / Server-side
  - Various technologies and approaches
  - PHP, Java, ASP.NET, Ruby, Python

# Three Tier Architecture



# Traditional Web Development

HTML, CSS, JS



Server-side  
rendering

Ruby, Python, Java, C++, PHP



DBMS

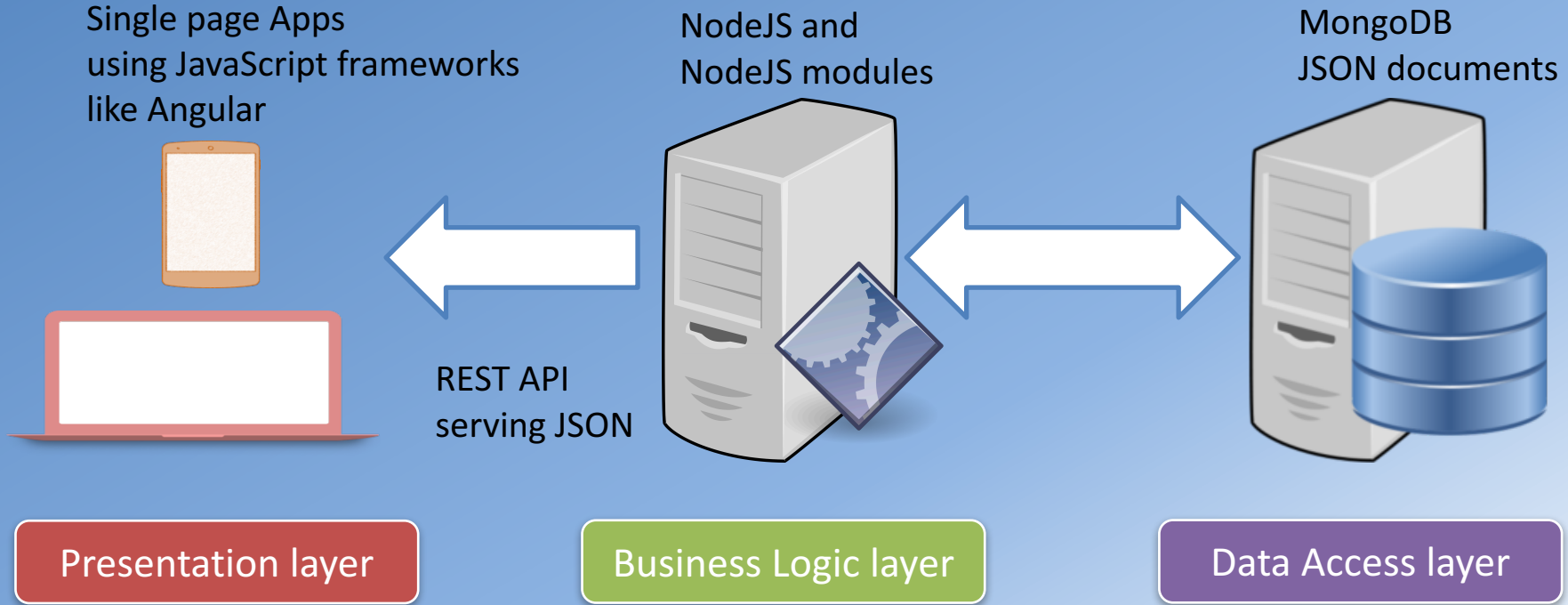


Presentation layer

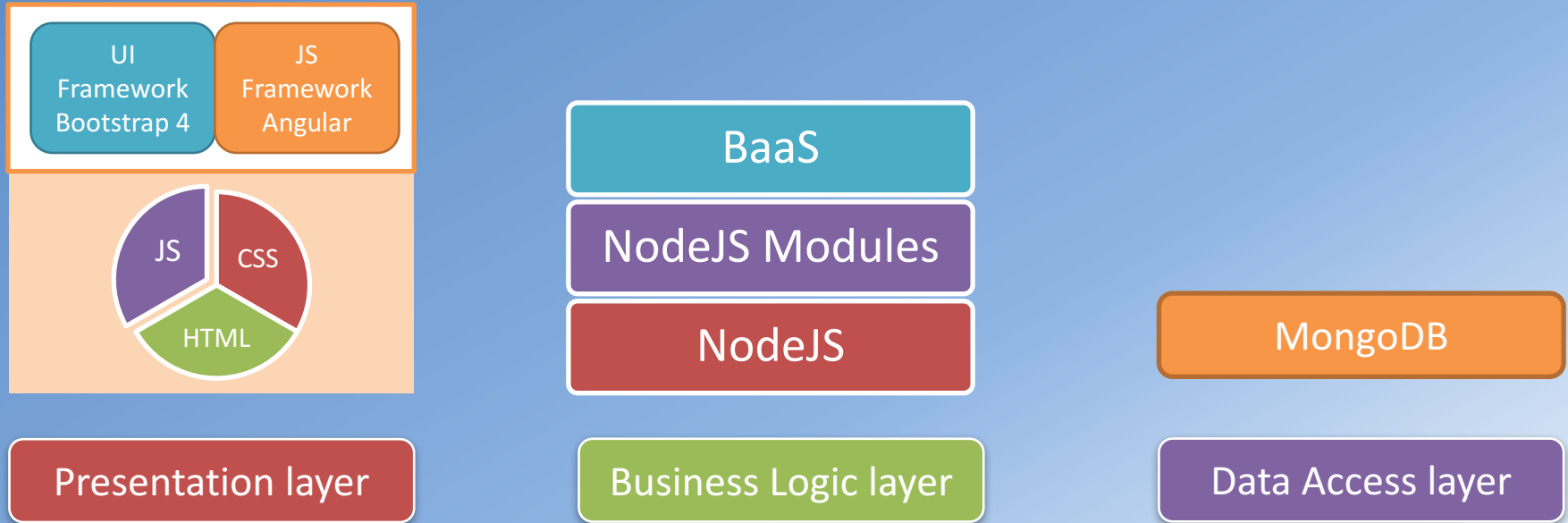
Business Logic layer

Data Access layer

# Full Stack JavaScript Development



# Full Stack Web Development



# Full Stack Web and Hybrid Mobile Development

- Course 1: Front-End Web UI Frameworks and Tools
  - Bootstrap 4
  - Web Development Tools
- Course 2: Front-end JavaScript Frameworks: Angular

# Full Stack Web and Hybrid Mobile Development

- Course 3: Multiplatform Mobile App Development with Web Technologies: Ionic and Cordova
  - Ionic Framework
  - Cordova
- Course 4: Multiplatform Mobile App Development with Web Technologies: Nativescript



# Full Stack Web and Hybrid Mobile Development

- Course 5: Server-side Development with NodeJS and Express
  - Node JS
  - NodeJS modules
  - Express
  - MongoDB
  - BaaS