

What is Full Stack Web Development?

Jogesh K. Muppala



THE DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
計算機科學及工程學系

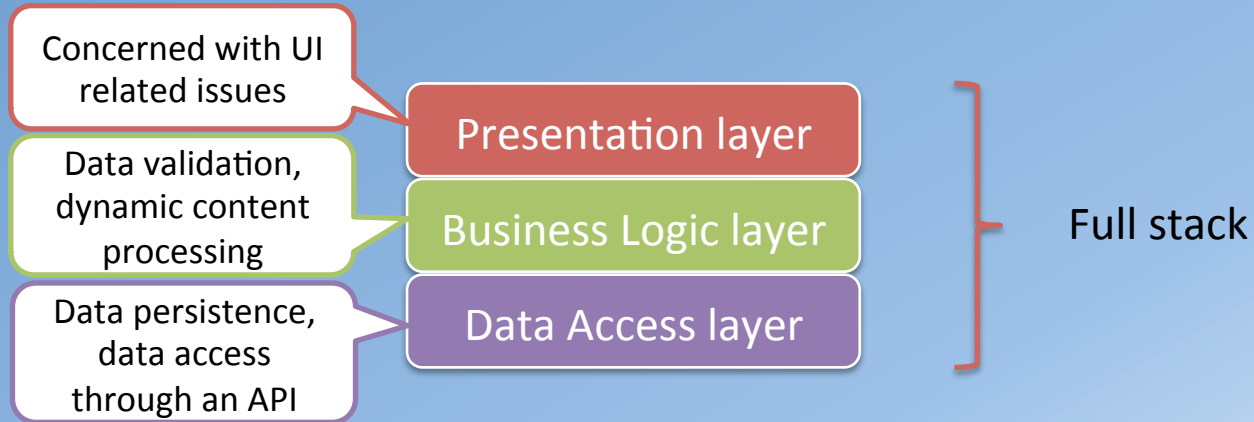


香港科技大學
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY

Front end and Back end

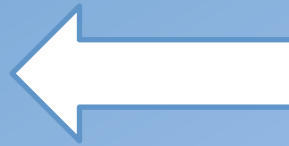
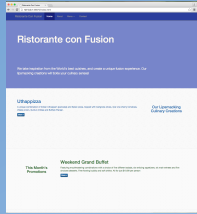
- Front end / Client-side
 - HTML, CSS and Javascript
- Back end / Server-side
 - Various technologies and approaches
 - PHP, Java, ASP.NET, Ruby, Python

Three Tier Architecture



Traditional Web Development

HTML, CSS, JS



Server-side
rendering

Ruby, Python, Java, C++, PHP



DBMS

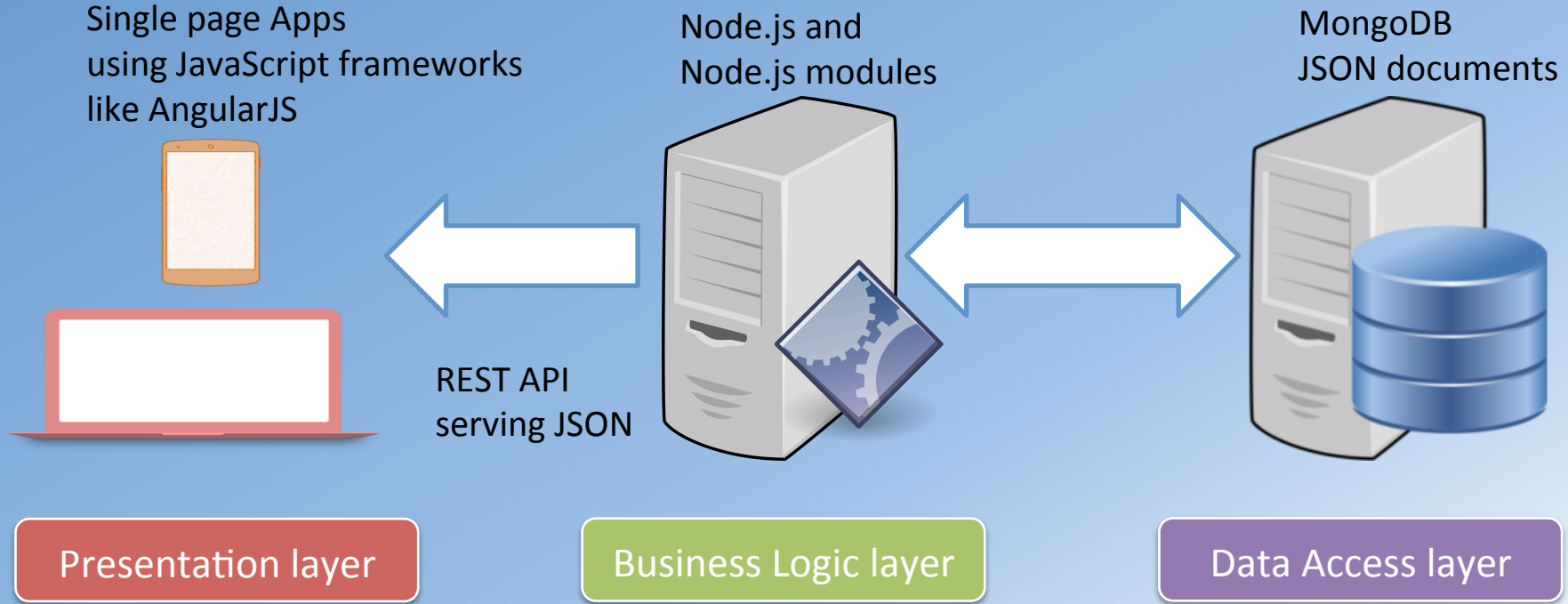


Presentation layer

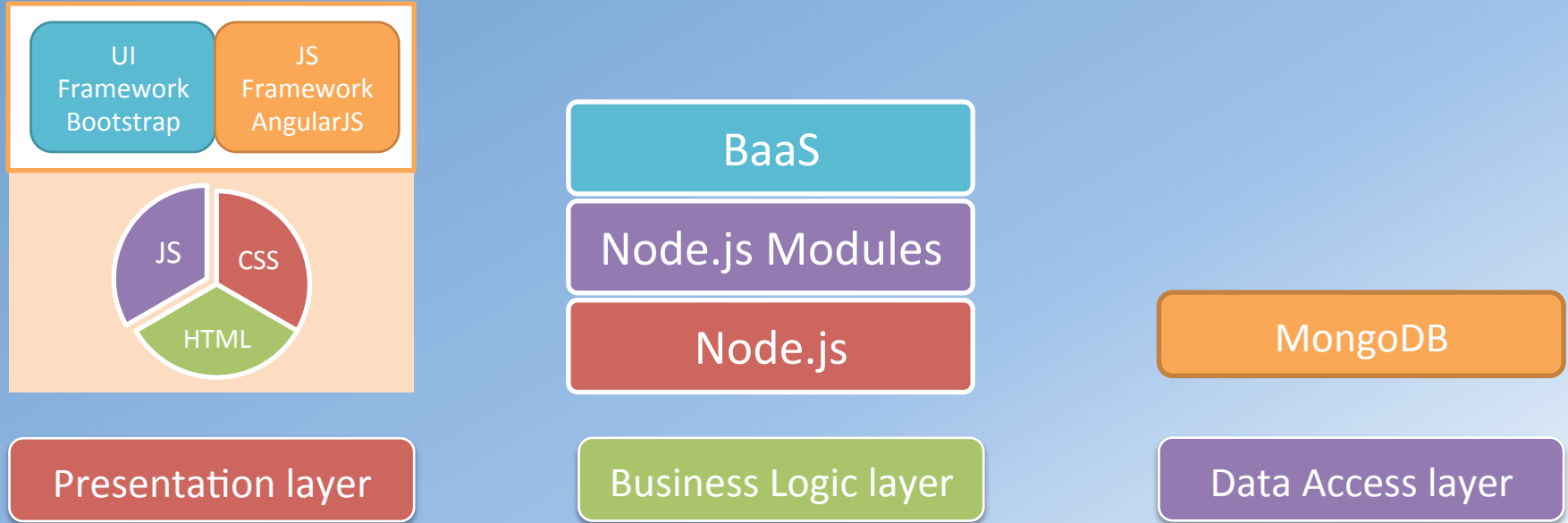
Business Logic layer

Data Access layer

Full Stack JavaScript Development



Full Stack Web Development



Full Stack Web Development

- Course 1: HTML, CSS and JavaScript
- Course 2: Front-End Web UI Frameworks and Tools
 - Bootstrap
 - Bower, Grunt, Gulp, Yo, Yeoman

Full Stack Web Development

- Course 3: Front-end JavaScript Frameworks: AngularJS
- Course 4: Multiplatform Mobile Application Development using HTML, CSS and JavaScript
 - Cordova
 - Ionic Framework

Full Stack Web Development

- Course 5: Server-side Development with NodeJS
 - Node JS
 - NodeJS modules
 - BaaS
- Course 6: Full Stack Web Development Capstone Project