

# Angular and Spring Boot



## Course Development Team

Harinath Kuntamukkala

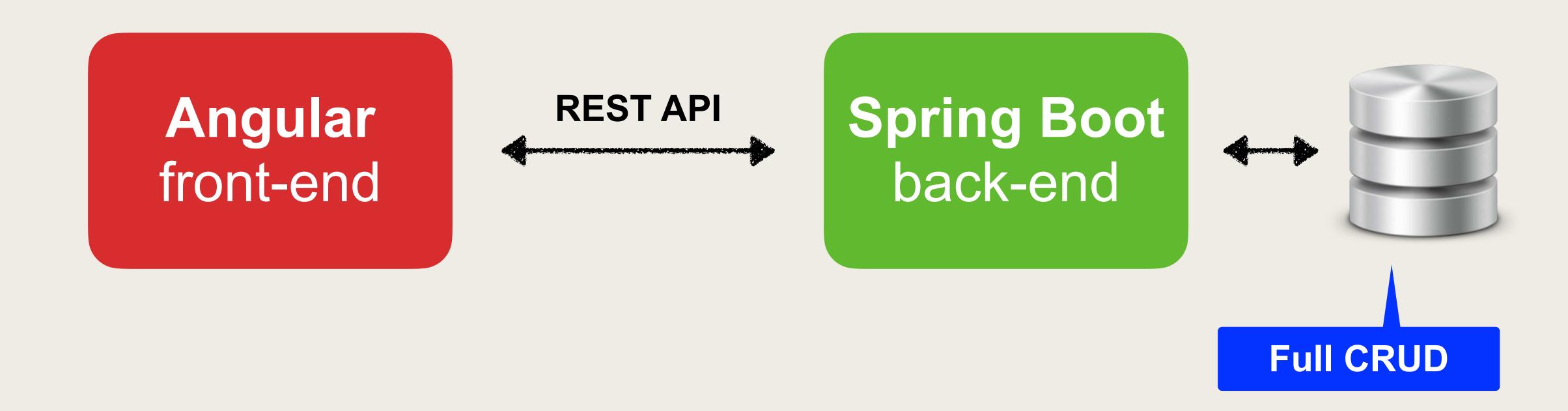


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#### Course Objective

Build a Full-Stack application with Angular and Spring Boot





#### Prerequisites

- You should have prior experience with
  - Java
  - Spring Boot
  - Maven

Spring & Hibernate for Beginners

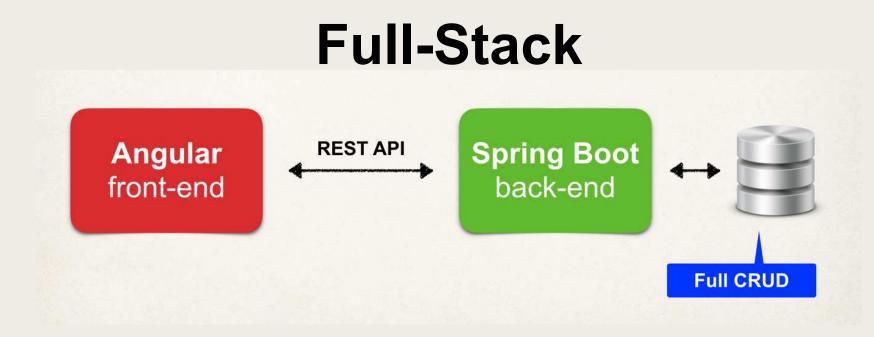
- NO prior experience needed for Angular
  - We will teach you Angular from the beginning :-)
  - · Not an A-Z coverage of Angular ... but enough to build Full-Stack apps



#### Course Road Map

- Angular Overview
- Set up Development Environment
- TypeScript Crash Course
- Angular Crash Course
- Build Real-time eCommerce App
  - Create Angular front-end
  - Develop Spring Boot back-end







#### Source Code and PDFs

All source code is available for download

All PDFs of slides are available for download



## Questions / Help

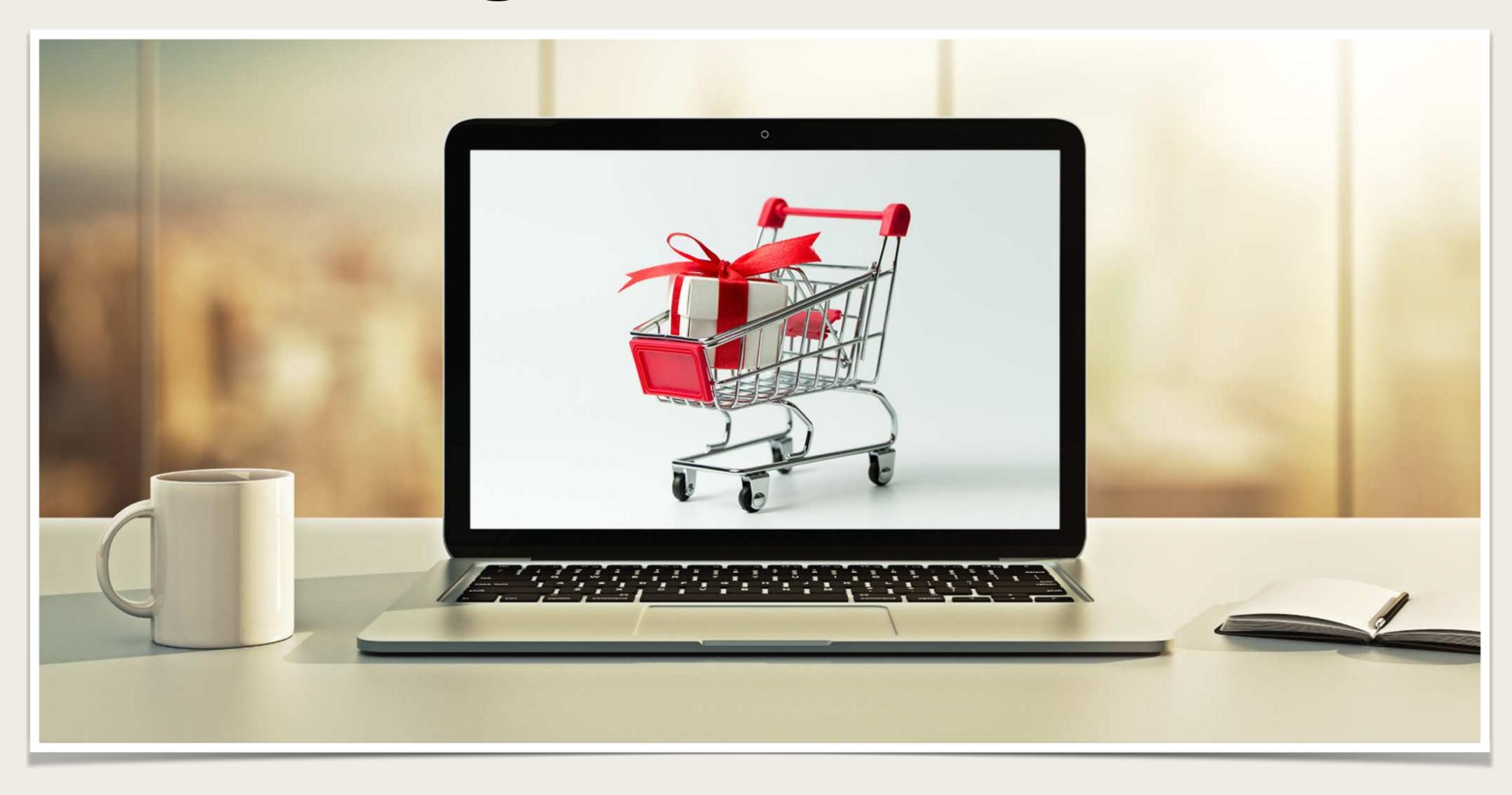
If you have questions or need help...

Post the question in the classroom discussion forum



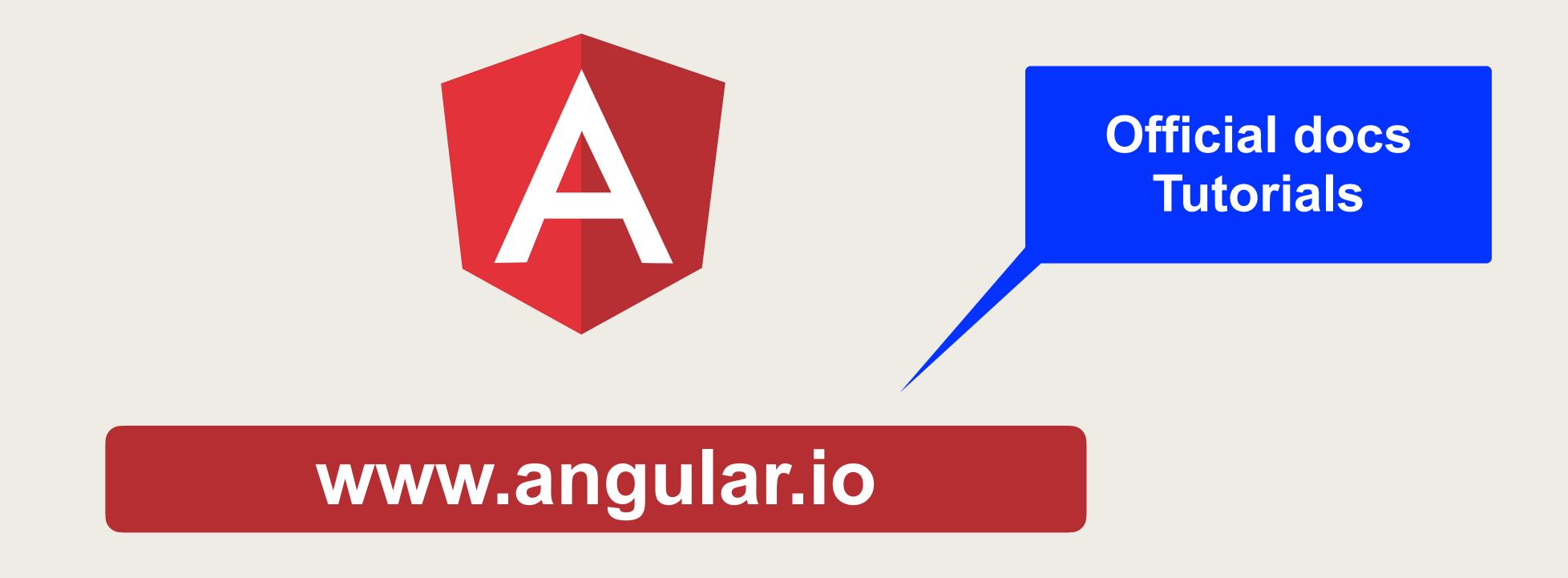


# Angular Overview



## What is Angular?

· Angular is a framework for building modern single-page applications



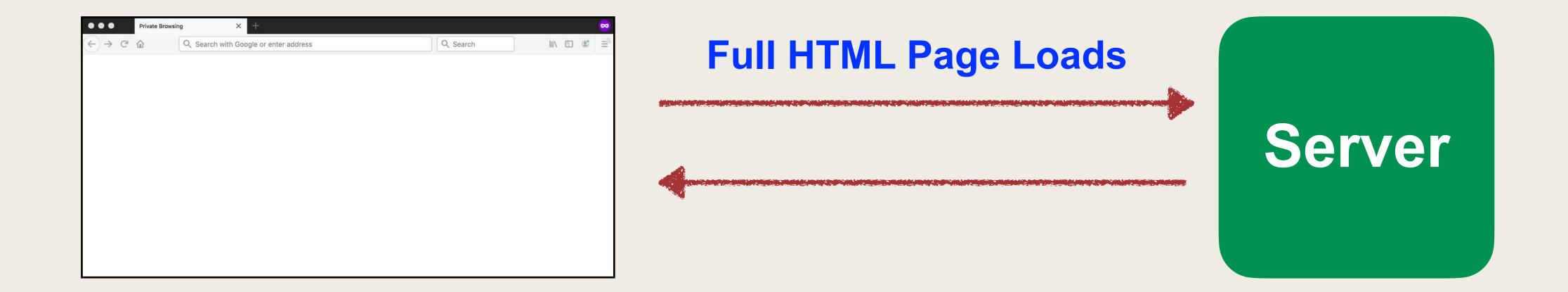


# How is Single-Page application different than Traditional application?



#### Traditional Application

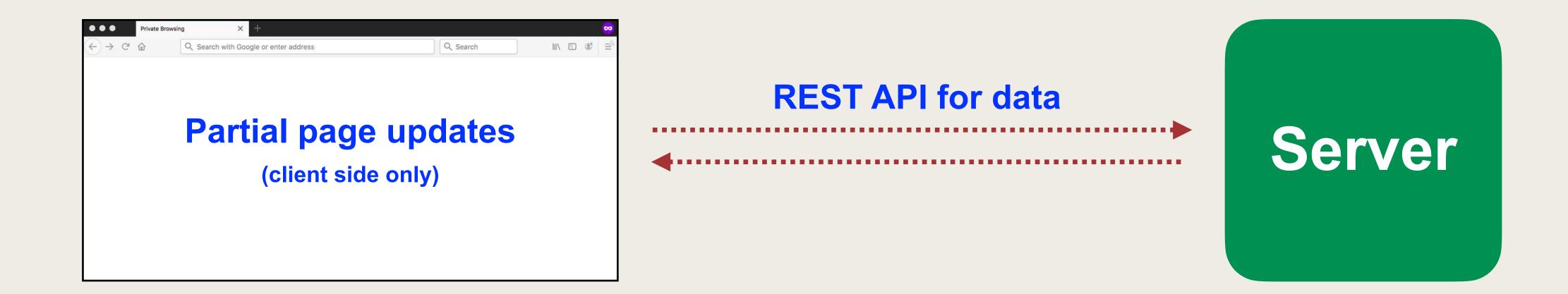
Each user action results in a full HTML page load





## Single-Page Application

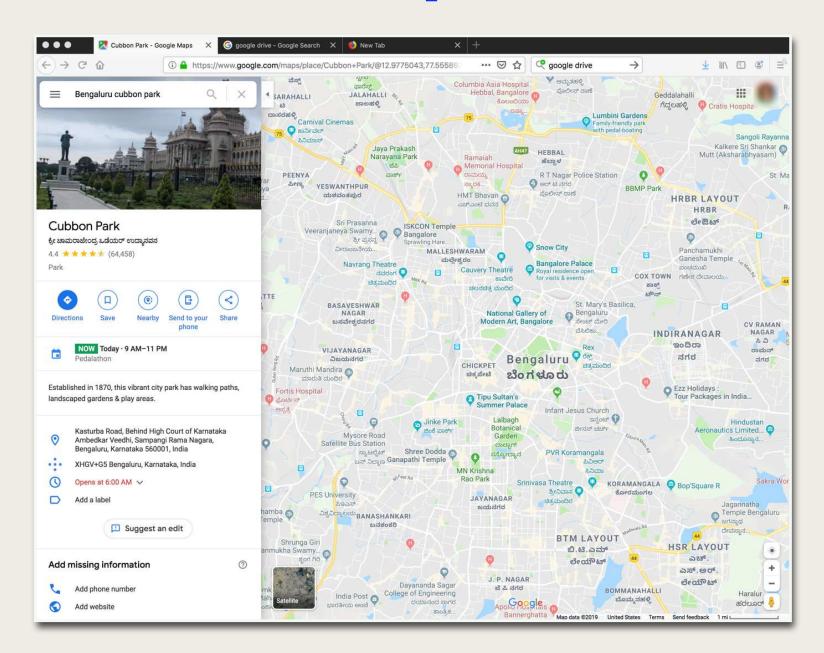
- · A web application that is composed of a single page
- · Based on user actions, the application page is updated
  - · Normally performs a partial update ... instead of full page load



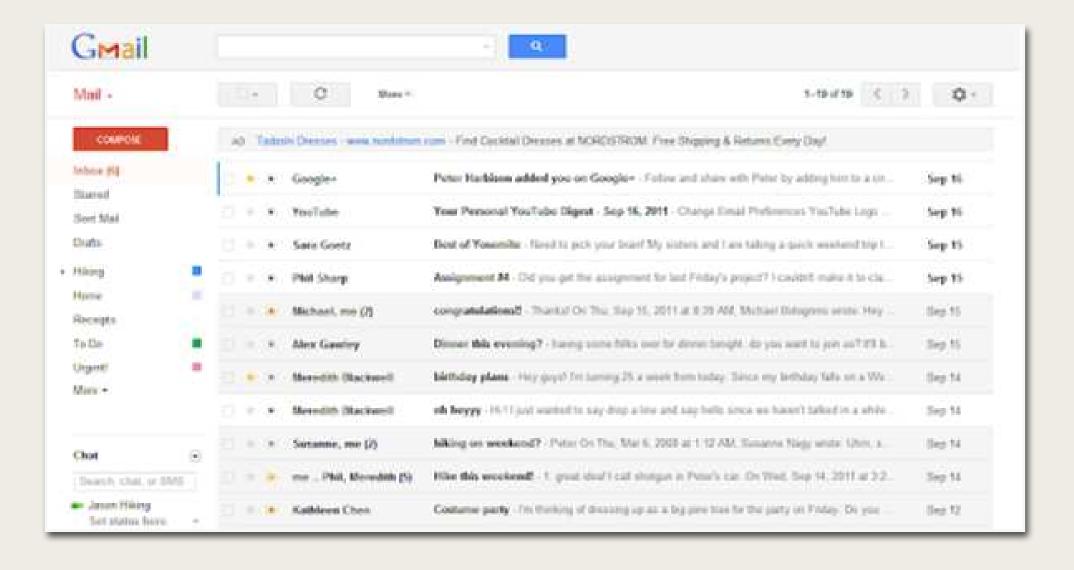


## Examples of Single-Page Applications

#### Maps



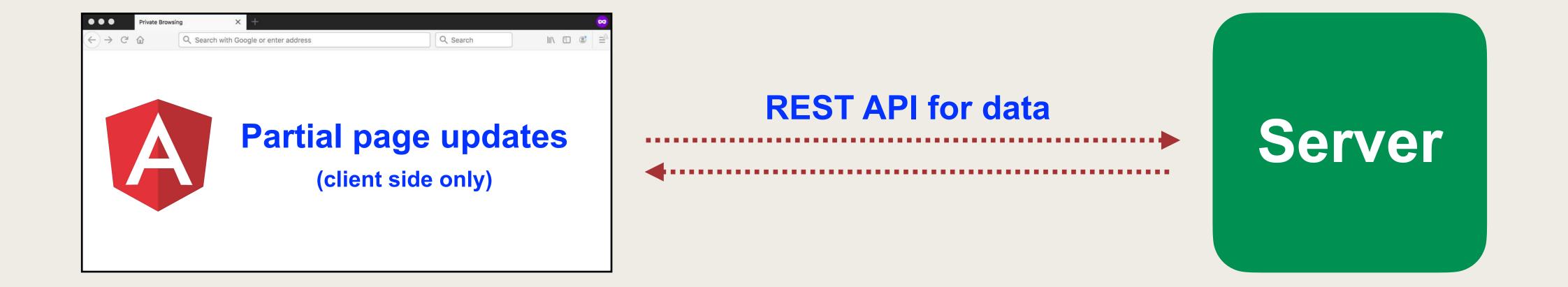
#### **Email**





## Angular Solution

Angular is a framework for building modern single-page applications





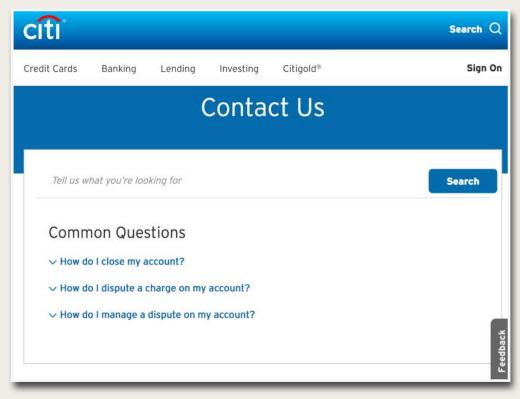
# Who's Using Angular?

Companies around the world are using Angular

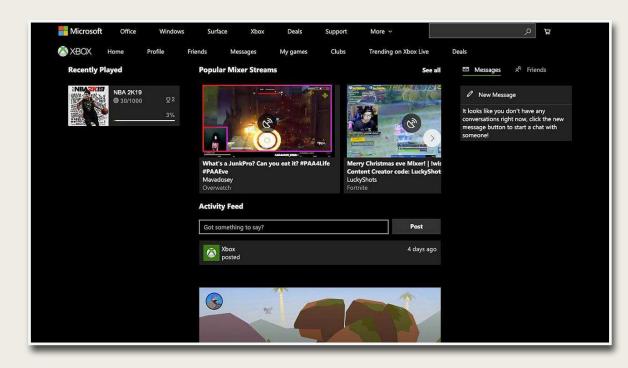
#### **Australian Government Immigration**



#### Citi Bank Customer Service



#### Microsoft Xbox

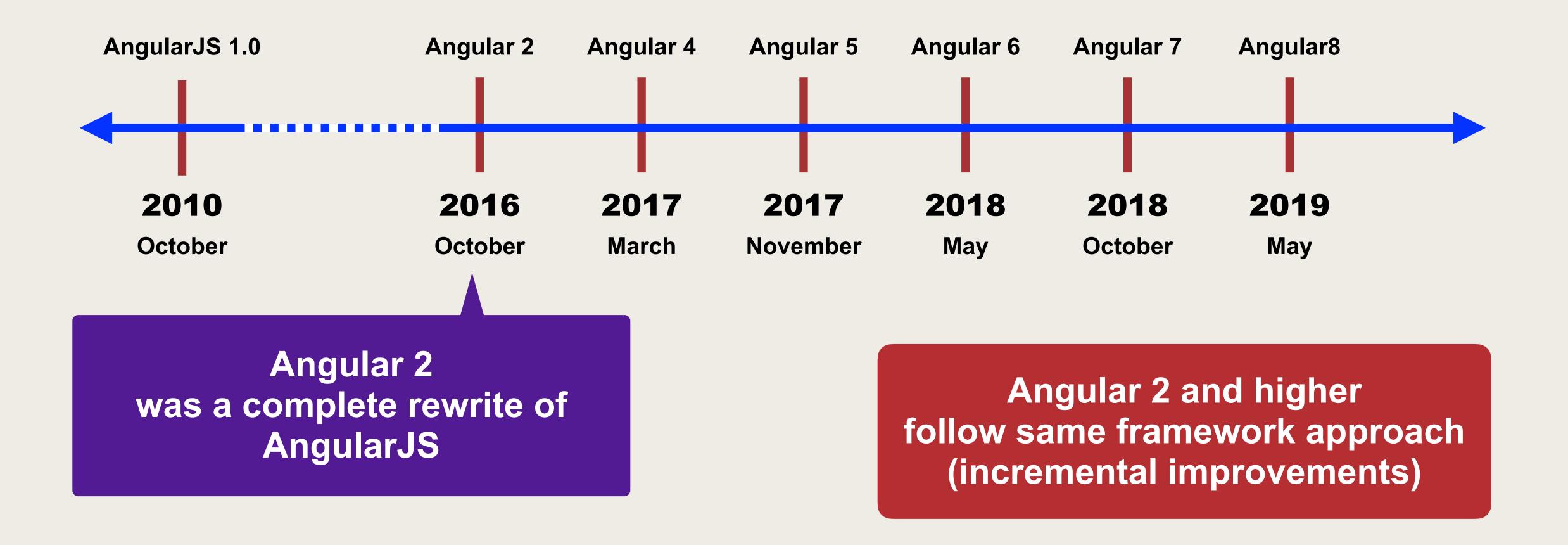




www.madewithangular.com

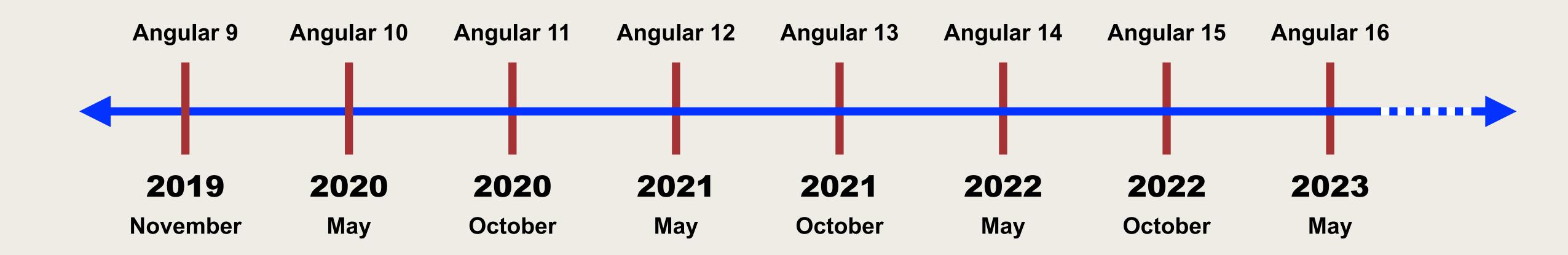


# Angular History





# Angular History + Future



#### Major release every 6 months

Dates are general guidance from Angular team ... may shift accordingly



#### What about Do-it-Yourself?

• FAQ: Couldn't I just do it myself with JavaScript, jQuery, AJAX etc?

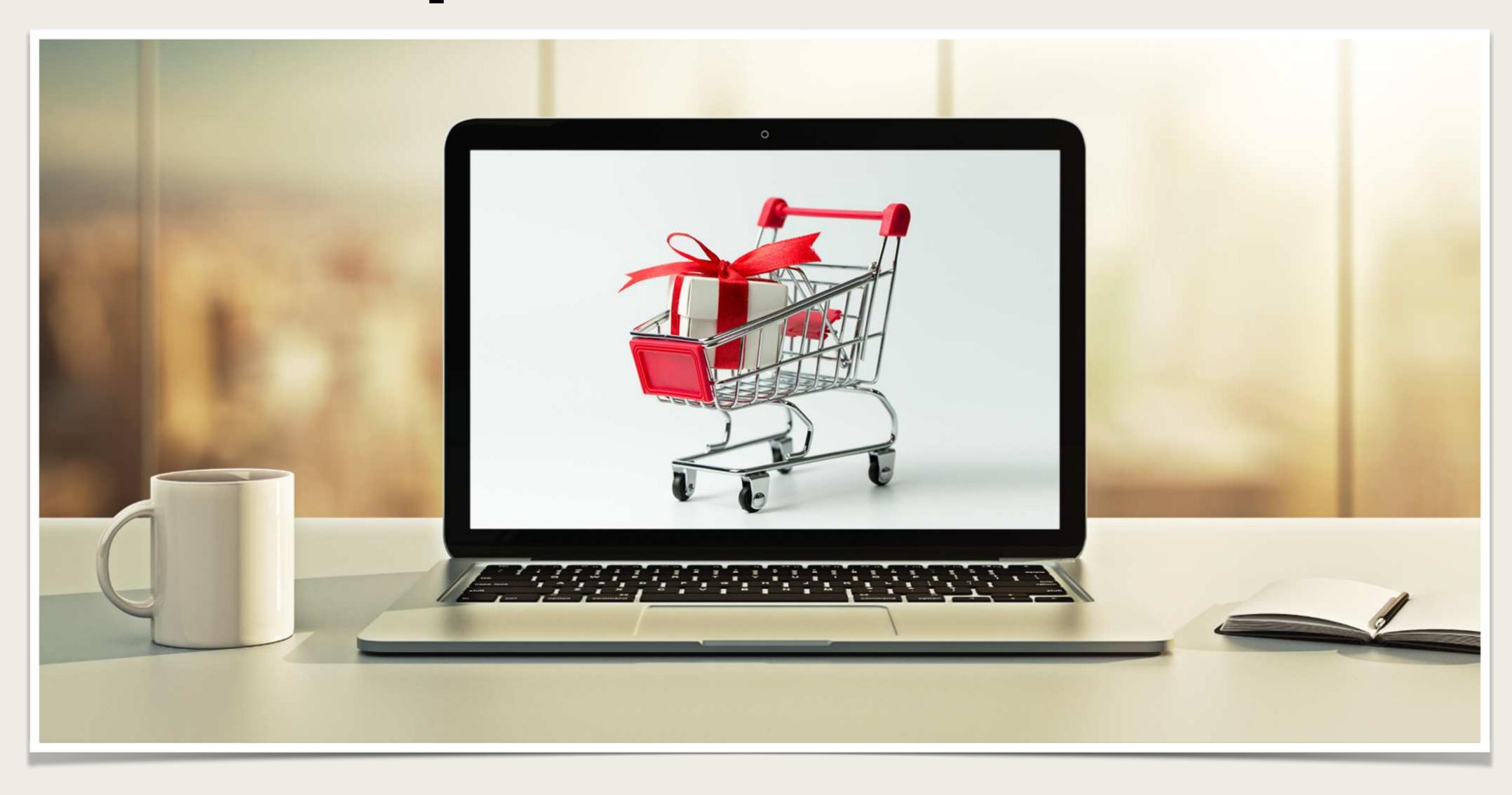
- May work for small basic hobby apps
- · For common features such as data binding, you may reinvent the wheel
- · Hard to manage and maintain for enterprise real-time applications

· Main reason we have frameworks such Angular, React.js, Vue.js, ...





# Set up Dev Environment



# Angular Development Tools

You can use any text editor or IDE

More on TypeScript in upcoming videos

- Most Angular developers use the TypeScript language
  - Superset of JavaScript
  - Strongly-typed language with compile time checking and IDE support

Command-line tools to compile code and create Angular apps



#### Visual Studio Code

- Free IDE that supports multiple programming languages
- Has built-in support for TypeScript
- · IDE features such as IntelliSense, Debugging, etc ...

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Visual Studio Code

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http://code.visualstudio.com



#### Command-Line Tools

Tool	Purpose
node	For running JavaScript code from command-line
npm	Node Package Manager - Download new node packages and features. Similar to Maven
tsc	TypeScript Compiler



#### Installation Instructions

- Install tools: Visual Studio Code, node, npm, tsc
- Step-by-step instructions for each operating system

**MS Windows** 

Mac

Linux

View the instructions at the following link

www.luv2code.com/angular-install-guides

