

# Front-End Web UI

## Frameworks and Tools: Bootstrap 4

### Course Overview

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# Expected Background

- You should have good working knowledge of:
  - HTML
  - CSS
  - JavaScript

# Web Design and Development

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graph TD; A[Web Design and Development] --> B[Design]; A --> C[Development, Building and Deployment];
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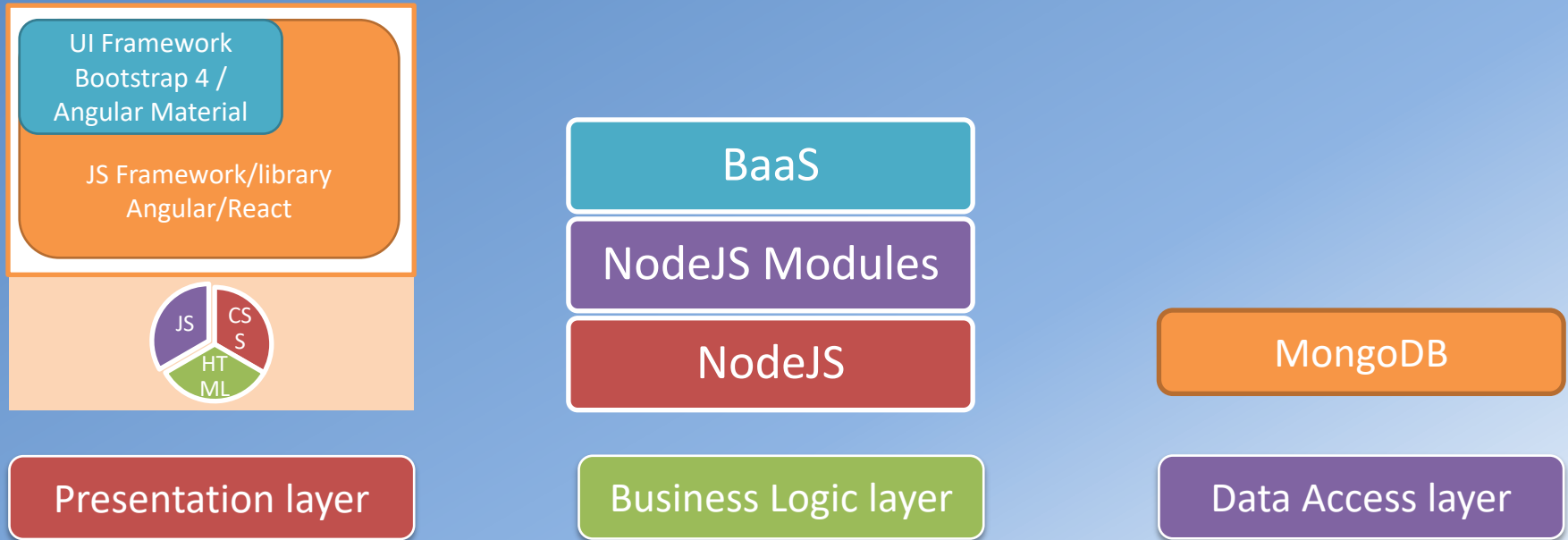
- Design

- User Interface (UI)/ User Experience (UX) Design
- Visual Design
- Prototyping
- Colors, Graphics and Animation

- Development, Building and Deployment

- Web UI Frameworks: Bootstrap 4
- JavaScript Frameworks/Libraries: Angular/React
- Hybrid Mobile Frameworks: Ionic, Cordova, NativeScript and React Native
- Server-side Development: Node + Express + MongoDB

# Full Stack Web Development



# Course Outline

- Bootstrap
  - Responsive Design and Bootstrap Grid System
  - Bootstrap CSS and JavaScript Components
- Web Tools:
  - Git
  - Node.js and NPM
  - Grunt and Gulp

# Module 1: Bootstrap Overview

- Full Stack Web Development: The Big Picture
- Setting up your Development Environment: Git and Node
- Introduction to Bootstrap
- Responsive Design and Bootstrap Grid System
- Assignment 1

# Module 2: Bootstrap CSS Components

- Navigation and Navigation Bar
- User Input: Buttons and Forms
- Displaying Content: Tables and Cards
- Images and Media: Images, Thumbnails, Media Objects
- Alerting Users: Tags, Alerts, Progress Bars
- Assignment 2

# Module 3: Bootstrap JavaScript Components

- Bootstrap JavaScript Components Overview
- Tabs, Pills and Tabbed Navigation
- Hide and Seek: Collapse and Accordion
- Revealing Content: Tooltips, Popovers and Modals
- Carousel
- Assignment 3



# Module 4: Web Tools

- Bootstrap and JQuery
- Less is More!: Less and Sass
- Building and Deployment: NPM Scripts
- Building and Deployment: Task Runners: Grunt and Gulp
- Assignment 4