

Web Application Development

Produced
by

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Outline

- ☐ My Background
- ☐ Module Description
- ☐ Structure
- ☐ Assessment

Module Description

- ❑ This module approaches web application development from an apps and services perspective, as opposed to the monolithic, server-side rendering model.
- ❑ Services will be formulated as REST APIs (Representational State Transfer Application Program Interface), while multiple service consumer forms will be considered, including Single Page Apps (SPA) and other services.
- ❑ The principles and patterns underpinning the design of both components (SPA and REST API) will be examined as well as the fine-grained aspects of the underlying communication protocol.
- ❑ There will be an emphasis on development, including the use of application frameworks, workflow automation tools and cloud deployment platforms.

Learning Objectives

- ❑ Describe the client and server components of complex Web applications including their integration with data sources and session tracking.
- ❑ Design and implement Server Side Web Components using the appropriate technologies for Database Connectivity.
- ❑ Explain the roles and responsibilities of clients and servers in the context of multi-tiered Internet Applications.
- ❑ Understand architectures and design patterns applicable to modern web applications.
- ❑ Deploy, configure and administer a Web Server for the purposes of Web Application Deployment.



mongoDB
express^{3.0.0}



ANGULARJS
by Google



Structure

- ❑ Week 01 - 02 : Introduction, Web Apps Overview & Case Study
- ❑ Week 03 : NodeJS – Part 1 (Events, Node Modules & NPM)
- ❑ Week 04 : NodeJS – Part 2 (REST, API & Express)
- ❑ Week 05 : MongoDB (covered it the labs)
- ❑ Week 06 : AngularJS – Part 1 (Overview)
- ❑ Week 07 : AngularJS – Part 2 (Modules, Views, Controllers & Routes)
- ❑ Week 08 : AngularJS – Part 2 (Modules, Views, Controllers & Routes)
- ❑ Week 09 : AngularJS – Part 3 (Filters, Services & Directives)
- ❑ Week 10 : MongoDB / RECAP
- ❑ Week 11 : TECH SUPPORT 😊
- ❑ Week 12 : Project Demos

Assessment

❑ 100% Continuous Assessment

- 1 Individual Project – Due week 6 & 12 (30% & 70%) – *PROTOTYPE WEEK 4*
- Project Ideas **MUST** be unique **AND** all your own original work (mostly!)
- 1st come 1st served approach to Project Titles

20% REDUCTION PER DAY FOR EVERY DAY LATE

Contact

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Resources & Case Study

Moodle Page

<http://donationweb.herokuapp.com>



Questions?