

# Web Application Development

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Produced  
by

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# Outline

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

# My Background \*

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- ❑ David Drohan BSc., MSc.
- ❑ Lecturing Software Development since 1995
- ❑ Currently delivering Mobile & Web Development Modules on 3<sup>rd</sup> year, 4<sup>th</sup> year and MSc Programmes
- ❑ Contact me at
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# Module Description

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- ❑ This module introduces the student to advanced Web Application Development techniques and standards, with the emphasis on building server side components with Database Integration.
- ❑ Building on the fundamentals learnt in the Server-Side Scripting module, the student will enhance their existing skills and learn how to create and deploy complex web-based applications.
- ❑ Additionally, students will be introduced to Web Services and Service Orientated Architecture (SOA) in web development.

# Learning Objectives

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- ❑ 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<sup>3.0.0</sup>



ANGULARJS  
by Google



# Structure

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- ❑ 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 in 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

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## ❑ 100% Continuous Assessment

- 1 Individual Project – Due week 6 & 12 (30% & 70%) – PROTOTYPE WEEK 3/4
- Project Ideas MUST be unique AND all your own original work (mostly!)
- 1<sup>st</sup> come 1<sup>st</sup> served approach to Project Titles
- *Note : CAN overlap with FYP*

***20% REDUCTION PER DAY FOR EVERY DAY LATE***



# Contact

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- @daithid73



# Resources & Case Study

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Moodle Page

<http://donationweb.herokuapp.com>



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# Questions?