Web Application Development

Produced
by

David Drohan (ddrohan@wit.ie)

Department of Computing & Mathematics
Waterford Institute of Technology

http://www.wit.ie

Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Outline

- ❑ My Background
- ❑ Module Description
- ❑ Structure
- ❑ Assessment

My Background *

❑ David Drohan BSc.,MSc.

❑ Lecturing Software Development since 1995

❑ Currently delivering Mobile & Web Development Modules on 3$^{rd\ year}$,4$^{th\ year}$ and MSc Programmes

❑ Contact me at

- ddrohan@wit.ie (email)

- @daithid73 (twitter)

- 051 302683 (office)

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.

❏ Their will be an emphasis on development, including the use of application frameworks, workflow automation tools and cloud deployment platforms.

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 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

❑ 100% Continuous Assessment

- 1 Individual Project – Due week 6 & 12 (30% & 70%) – *PROTOTYPE WEEK 3/4*

- Project Ideas <u>MUST</u> be unique <u>AND</u> all your own original work (mostly!)

- 1st come 1st served approach to Project Titles

- *Note : CAN overlap with FYP*

20% REDUCTION <u>PER DAY</u> FOR EVERY DAY LATE

Contact

❑David Drohan

- ■ ddrohan@wit.ie

- ■ 051 302683

- ■ @daithid73

Resources & Case Study

Moodle Page

http://donationweb.herokuapp.com

Questions?