Module Proforma

Approved, 2022.02

Summary Information

Module Code	5230COMP
Formal Module Title	Mobile and Web Development
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Martin Hanneghan	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Mark Evans	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
Lecture	11
Practical	33

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To provide knowledge of various mobile and web platforms and architectures and gain experience in designing and developing mobile and web applications.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Critically review mobile-first web application architecture.
MLO2	Apply enterprise-scale application design methodologies.
MLO3	Consider frameworks for the design and development of web applications.
MLO4	Construct data-driven applications for mobile platforms.

Module Content

Outline Syllabus
Desktop vs Mobile-first design Responsive design Declarative layout/control frameworks Database connectivity/SQL-driven web development Web service connectivity Thin vs Thick clients Native mobile development and cross-platform implementations Logical and Physical Architectures

Module Overview
This module provides you an overview of developing web applications for mobile platforms. It will illustrate the main platforms available for mobile-focused web development, drawing data from a variety of sources including other web services and databases. The module will conclude with an overview of alternative mobile development techniques, familiarising you with the fundamentals of native focused and cross-platform frameworks-focused mobile developments.

Additional Information

This module is intended to provide an overview of developing web applications for mobile platforms. It will illustrate the main platforms available for mobile-focused web development, drawing data from a variety of sources including other web services and databases. The module will conclude with an overview of alternative mobile development techniques; familiarising the student with the fundamentals of native focused and cross-platform frameworks-focused mobile developments.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Development report	50	0	MLO3, MLO2, MLO1
Technology	Web application	50	0	MLO3, MLO4