
Overview

Digital content professionals apply skills in design, coding and multimedia editing, using a mix of technology tools and platforms to create and publish digital content, including layout, text and graphics to web pages and mobile applications.

This standard covers the creation and management of connections from the host application to one or more data sources. It includes the use of client-side and server-side scripting to enable web and mobile applications to store data input to them and to extract data to display in them.

Performance criteria

You must be able to:

1. Create the data model for data-driven applications to meet requirements
2. Implement a database to codify the data model
3. Establish and test the connection to a data source from the host application
4. Create a data dictionary to state how data should be used and displayed in the host application
5. Query and display selected data from the data source
6. Validate data input through the host application user interface to ensure data validity
7. Store user input data into a connected data source
8. Develop client-side scripting to enable web and mobile applications to enter, validate and store input data
9. Develop server-side scripting to enable web and mobile applications to extract data from data stores on the server

Knowledge and understanding

You need to know and understand:

1. Web and mobile application design and architecture
2. The range of data types and formats used to support data driven applications
3. Different data sources and how to connect them to data driven applications
4. The scripting languages that are used with different database servers
5. The factors involved in making a database connection from web or mobile application
6. The procedure to follow when performing data queries to extract data from a connected data store
7. The need to validate input data before storing in connected database
8. Open data standards
9. The legal and regulatory issues in data-driven application development
10. The use of client side scripting for data input and validation
11. The factors involved in using client side scripting languages to present data
12. Server-side scripting languages
13. The factors involved in developing an XML Schema to interchange data formats between different platforms
14. The importance of classifying and protecting business information
15. Methods used for user authentication for different data

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Establish data connectivity for data-driven digital content applications



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Suite IT and Telecoms

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