

CONL709 - Mobile App Development

Module learning outcomes	<ol style="list-style-type: none">1. Use a current development environment to design, develop, deploy and debug an appropriate app on a mobile device that interacts with a database.2. Develop an app for multiple devices using the appropriate languages and development tools.
Weighting	50%

Submission instructions

You will work on this assignment individually.

Your submission should contain a word document (.doc or .docx) which will contain app design diagrams, screen shots of the app running and information regarding problems found and how they were solved or if they were not resolved and any other pertinent information such as what testing was carried out.

You will need to submit the complete Android Studio project for your Movie Database app.

So the word document (.doc or .docx) and the Android Studio Project must be added to zip archive file.

This zip file should then be submitted via the submission link on Canvas for this assessment.

NOTE: No other file formats will be accepted, you will use **.doc** or **.docx** and **zip**. Do not use any other document formats and do not use any other archive formats for the submission; if you do, the submission will not be marked and you will be referred.

By submitting this work, you confirm that you have read, understand and accept the University's regulations regarding plagiarism and agree to be dealt with accordingly if any such situation should arise.

Task details and instructions

Design and Implement an app which would allow the user to store details of a single film actor's filmography, this information should be stored in a table in a SQLite database.

What information is to be stored is down to the developers' discretion but the id, title and the year of release must be stored. It is recommended to keep the number of fields (columns) for your table, which stores the film information, no more than ten (10) fields (columns); five is the minimum number of fields.

The app must have a menu system which will allow the user to navigate to the different functions of the app.

The menu main "could" look like this:

Main Menu

Search
Help
About
Exit

This is an example of what the main menu may look like, you can adapt this idea; especially if you are adding extra features to your app.

The user should be able to search by film title and also list all records stored in the table.

An "about" activity is required this will display app title, author and version number. Also information about your selected actor is to be displayed as well; this information needs to be obtained by using web scraping techniques.

The "help" activity is also required this will display instructions how the features of the app and how to use the app.

For a higher grade extra features would need to be implemented such as:

- searching on other fields
- validation for user inputs
- adding a record
- deleting a record
- modifying an existing record

This list is not exhaustive, these examples are for guidance students are more than welcome to come up with other features that are sensible and reasonable for the context of the Movie Database App they are implementing.

	<p>The design should be based on JSP (Jackson Structured Programming), JSP diagram(s) representing the data used in the app and also JSP diagram(s) showing the program logic, the JSP diagrams need to be saved in either a .doc or .docx word document.</p> <p>Also in this document you need to include screen shots demonstrating the mechanics you have implemented in your app; such as Search, Help and About. If you have implemented other features these would also need to be documented.</p> <p>Also, document in the same document problems you encountered and how you solved them, if you could not solve them these need to be documented as well. Please do not document every syntax error that is not required, document key problems you met during the development of the app.</p> <p>Testing of the app needs to be carried out, using screen shots to demonstrate app operation and also showing whether the app deals with invalid user inputs and choices. You need to consider where possible what mistakes the user may make while using the app and where possible handle these "mistakes".</p>
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Guidance	<p>Ensure you create the database for the app using SQLite Studio, this may help in the development of the required SQL statements, such as queries (select statements); that you will need to implement for your app.</p>
Marking criteria	<p>See the document marking criteria – assessment 2; for individual assessment details.</p>