## Coventry University &

## School for Higher and Professional Education

# VT6002CEM Mobile App Development

### Assignment Brief 2023/24

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| Module Title **Mobile App Development** | Ind/Group **Individual** | Cohort **2023 - SHAPE (HK)** | Module Code **VT6002CEM** |
| Coursework Title **Designing and Building a mobile App (POR)** | | | Hand Out Date **28/11/2023 (FT)**  **TBC (PT)** |
| Lecturer **Will KWOK (Full-time)**  **TBC (Part-time)** | | | Due Dates **15/01/2024**  **Online 23:59 (FT)**  **TBC (PT)** |
| Estimated Time (hrs):  World Limit\*: | Coursework type: **Individual Practical Element** | | % of Module Mark **75%** |
| Submission Arrangement: **Online via SHAPE Moodle** File Types:  **A text/word/pdf file with two links** ．**A 10-min demonstration video upload to GoogleDrive/OneDrive/Youtube** ．**GitHub Repository link where hosted your App project**  **Note: In summary two links (video and github links) should put in your submission file**  Mark and Feedback Date: **2 weeks after submission** Mark and Feedback Method: **Rubric marks and comments using SHAPE Moodle** | | | |

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| **Module Learning Outcomes Assessed (ILOs 1, 2, 3 and 4 are assessed by POR )**   1. **Design and implement a mobile application, showing systematic knowledge of relevant tools, methods and processes.** 2. **Understand and critically evaluate the different tools and techniques for mobile application development.** 3. **Scope, design, implement and critically evaluate a basic security policy to keep confidential data safe on a mobile device.** 4. **Demonstrate an ability to maintain ease of data access/usability across several platforms.** 5. Understand, articulate, and provide sustained argument on how Cloud Computing can be used to enhance the use of mobile computing in business. |

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| **Task and Mark Distribution**  **Assignment Brief**  You are required to design, build and test an **Android or iOS app** that demonstrates your proficiency in the skills that have been taught during the module. You can free to choose use Android studio, Xcode or Visual Studio Code to develop your App.  You can think of and develop any kind of app that you feel will be useful for the potential user and also aligns well with your own interests. But the app you decide to build should give you sufficient scope to demonstrate the required skills such as using different views, layouts, controls, Web APIs, Sensors and hardware along with data persistence to address the learning outcomes of the grading rubric. You are encouraged to create the app proposed in CW1.  As mentioned above, the main app’s idea is totally open for you to decide and implement based on your own understandings and interests of specific domains and needs that you wish to address as long as you apply the features, frameworks and models taught during the labs.  You may use sample code from the lab exercises, but this must be clearly labelled in your source code and you will only be assessed on the code you have written yourself. |
| **Video**  You are required to record a screencast in which you are expected to both demonstrate the features of your app and also explain key code behind these features. You will only be awarded marks for features demonstrated in the video. There are a number of restrictions:   * 1. The video must last no longer than 10 minutes   2. Show your app running on the screen and how to use it.   3. Explain features of your app and how those meet your design requirements.   4. Show parts of your source codes that implement the features mentioned above.   5. You must include a clear voice for explanation purposes.   6. The video must be produced in high quality so that technical details such as source codes can be clearly viewed. The video quality must be at least 720HD.   7. You must upload your video to Moodle (or an OneDrive/GoogleDrive/Dropbox link) in MP4 format. It is your responsibility to make sure the video can be watched by standard media player software.   **Repository**  You must also provide a link to your personal GitHub repository that contains all source codes for your app. You must make sure that permissions are given to your tutors to view your repository for marking purposes, as well as to check for any plagiarism or collusion.  **Note**  Apps must be developed using either the Android SDK, iOS SDK, React Native or Flutter. You MUST NOT use other mobile application development. For example, using Butter Knife libraries or PhoneGap to create your application is not allowed.  If you make use of any code from other sources (tutorials, help sites, etc) this must be clearly indicated in your source code. You should not share any of your assignment code with your fellow students. We use a sophisticated tool that can identify similarities between submissions. If these are detected both parties will be referred to the Academic Conduct Office accused of collusion.  You must make sure that the repository you submit are shared with academics. In other words, the repositories you submit are not protected.  **Submission**  You are required to submit the following items to SHAPE moodle:   * + 1. **A 10-min demonstration video** (A GoogleDrive/Youtube/Dropbox link for downloading the video is also accepted)     2. **The Source Code -** **Zip** all the project files **into a single file** and submit to moodle.     3. **Link to GitHub Repository** - A text file including a link of your GitHub repository. |
| **Notes:**   * 1. You are expected to use the Coventry University APA style for referencing. For support and advice on this students can contact Centre for Academic Writing (CAW).   2. Please notify your registry course support team and module leader for disability support.   3. Any student requiring an extension or deferral should follow the university process as outlined here.   4. The University cannot take responsibility for any coursework lost or corrupted on disks, laptops or personal computer. Students should therefore regularly back-up any work and are advised to save it on the University system.   5. If there are technical or performance issues that prevent students submitting coursework through the online coursework submission system on the day of a coursework deadline, an appropriate extension to the coursework submission deadline will be agreed. This extension will normally be 24 hours or the next working day if the deadline falls on a Friday or over the weekend period. This will be communicated via your Module Leader.   6. Assignments that are more than 10% over the word limit will result in a deduction of 10% of the mark i.e. a mark of 60% will lead to a reduction of 6% to 54%. The word limit includes quotations, but excludes the bibliography, reference list and tables.   7. You are encouraged to check the originality of your work by using Turnitin.   8. Collusion between students (where sections of your work are similar to the work submitted by other students in this or previous module cohorts) is taken extremely seriously and will be reported to the academic conduct panel. This applies to both courseworks and exam answers.   9. A marked difference between your writing style, knowledge and skill level demonstrated in class discussion, any test conditions and that demonstrated in a coursework assignment may result in you having to undertake a Viva Voce in order to prove the coursework assignment is entirely your own work.   10. If you make use of the services of a proof reader in your work you must keep your original version and make it available as a demonstration of your written efforts.   11. You must not submit work for assessment that you have already submitted (partially or in full), either for your current course or for another qualification of this university, with the exception of resits, where for the coursework, you maybe asked to rework and improve a previous attempt. This requirement will be specifically detailed in your assignment brief or specific course or module information. Where earlier work by you is citable, i.e. it has already been published/submitted, you must reference it clearly. Identical pieces of work submitted concurrently may also be considered to be self- plagiarism. |

**Mark Allocation guidelines to students**

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| 0-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-100 |
| Work mainly incomplete and /or weaknesses in most areas | Most elements completed; weaknesses outweigh strengths | Most elements are strong, minor weaknesses | Strengths in all elements | Most work exceeds the standard expected | All work substantially exceeds the standard expected |