| **COMP1786 (2021-22)** | **Mobile Application Design and Development- CW2 (Logbook)** | **Contribution: 30% of course** |
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| **Course Leader: Keeran Jamil** | **Mobile Application Design and Development – CW2 Logbook** | **Deadline Date: 22nd November 2021** |
| This coursework should take an average student who is up-to-date with tutorial work approximately 10 hours  Feedback and grades are normally made available within 15 working days of the coursework deadline | | |
| **Learning Outcomes:** C. Select and critically evaluate suitable software tools and APIs for the development of a particular mobile application and understand their strengths, scope and limitations. D. Select and use appropriate application development tools to assist in the conception, design, writing and testing of various interactive programs for mobile devices. | | |

| Plagiarism is presenting somebody else's work as your own. It includes: copying information directly from the Web or books without referencing the material; submitting joint coursework as an individual effort; copying another student's coursework; stealing coursework from another student and submitting it as your own work.  Suspected plagiarism will be investigated and if found to have occurred will be dealt with according to the procedures set down by the University. Please see your student handbook for further details of what is / isn't plagiarism.   **All material copied or amended from any source (e.g. internet, books) must be referenced correctly according to the reference style you are using.   Your work will be submitted for plagiarism checking.  Any attempt to bypass our plagiarism detection systems will be treated as a severe Assessment Offence.** |
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#### Coursework Submission Requirements

#### **For this coursework you must submit a single PDF document.  In general, any text in the document must not be an image (i.e. must not be scanned) and would normally be generated from other documents (e.g. MS Office using "Save As .. PDF"). An exception to this is hand written mathematical notation, but when scanning do ensure the file size is not excessive.**

#### **For this coursework you must also upload a single**ZIP**file containing supporting evidence.**

#### **There are limits on the file size.**

#### **Make sure that any files you upload are virus-free and not protected by a password or corrupted otherwise they will be treated as null submissions.**

#### **Your work will not be printed in colour. Please ensure that any pages with colour are acceptable when printed in Black and White.**

#### **You must NOT submit a paper copy of this coursework.**

#### **All courseworks must be submitted as above. Under no circumstances can they be accepted by academic staff**

The University website has details of the current Coursework Regulations, including details of penalties for late submission, procedures for Extenuating Circumstances, and penalties for Assessment Offences.  See <http://www2.gre.ac.uk/current-students/regs>

**Detailed Specification**

Complete the following exercises and upload the answer as a single PDF file to the Logbook upload area by the logbook submission deadline.

You MUST also upload **to the weekly uploads area** by the **specified dates** in order to get feedback.

The four uploads should each be in the form of a completed **logbook template document**. An example template is given in appendix A at the end of this document. **Please do not upload zip files just PDF documents.**

1. **Create a PhoneGap App** **or any other similar platform utilizing the Notification API**

Create a PhoneGap App that shows a confirmation dialog box to prompt users to push one button to ring a bell, and another button for vibrate.

1. **Create a PhoneGap App data entry screen**

Create a PhoneGap App that displays a form that allows a user to enter all the fields specified in the coursework section 1 a). The app should perform some validation of the data input and display an error message to the user if the data is invalid.

1. **Create an SQLite database to store the event details entered into the RentalZ App**

Design and create Web database suitable for storing the information that users of the **RentalZ** app enter about Properties.

1. **Create Android data entry screen**

Create an android data entry screenthat displays a form that allows a user to enter all the fields specified in the coursework section 1 a). The app should perform some validation of the data input and display an error message to the user if the data is invalid.

**Deliverables**

The deliverables are specified by your tutor.

**Grading Criteria**

This coursework will not be marked anonymously.

**85% and over**

All four uploads completed by the specified dates and to a very good standard

**From 70% to 84%**

Three uploads completed by the specified dates and to a very good standard

**From 60 to 69%**

Three uploads completed by the specified dates and to a good standard (only minor omissions or errors)

**From 50 to 59%**

Three uploads completed by the specified dates and to a reasonable standard (some omissions and errors)

**From 40 to 49%**

Two uploads completed by the specified dates and to a reasonable standard (some omissions and errors)

**Assessment Criteria**

For the exercises marks will be awarded for:

* clear and accurate completion of section 1 of the template
* clear and accurate completion of section 2 of the template so that it can be seen what was achieved and how it was done
* how much of what was asked for in the exercise was completed

**Appendix A**

Complete and upload a copy of this template to the weekly uploads area for each of the exercises 1 to 4.

**COMP1786 Logbook Upload Template**

1. **Basic Information**

| 1.1 Student name |  |
| --- | --- |
| 1.2 Who did you work with? Note that for logbook exercises you are allowed to work with one other person as long as you give their name and login id and both contribute to the work. | **Name:**  **Login id:** |
| 1.3 Which Exercise is this? Tick as appropriate. |  |
| 1.4 How well did you complete the exercise? Tick as appropriate. | * I tried but couldn't complete it ☐ * I did it but I feel I should have done better ☐ * I did everything that was asked ☐ * I did more than was asked for ☐ |
| 1.5 Briefly explain your answer to question 1.4 |  |

1. **Exercise answer**

**2.1 Screen shots demonstrating what you achieved**

Paste screen shots in here. Add explanation of what each screen shot demonstrates

**2.2 Code that you wrote**

Copy and paste relevant code here. Actual code please, not screen shots.

You need to add brief explanation.

const [name,setName] = useState('')

const [job,setJob] = useState('')

const [persons, setPersons]= useState<Person[]>([])

const [refresh,setRefresh] = useState(false)

const [checkValid,setCheckValid] = useState(false)