**Summary of *CMP7163 Advanced Mobile Computing* under Covid-19 restrictions.**

Under University instruction all face-to-face delivery stopped on 17/03/20 due to Public Health England advice in response to Covid-19. Your teaching team have met to adapt the module and the assessment with minimal disruption. Details are summarised below but if you have any questions please email the module coordinator *Harjinder Singh (harjinder.singh@bcu.ac.uk)*

Online sessions begin w/c 30th March. Please check Moodle for detail.

**Current Assessment Summary**

|  |  |  |
| --- | --- | --- |
| *App Design Presentation (already submitted)* | ***30*** | *02/03/2020* |
| *App Implementation Demonstration* | ***70*** | *04/05/2020* |

**New Assessment Summary**

|  |  |  |
| --- | --- | --- |
| *App Design Presentation (already submitted)* | ***30*** | *02/03/2020* |
| *App Prototype Implementation* ***Presentation (slides only – not presented in-person)*** | ***70*** | ***18/05/2020*** |

**What’s changed?**

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| --- | --- | --- |
| **What** | **Change?** | **Reasoning** |
| Deadlines? | *Yes* | *The submission date for the second part of the assessment (App implementation) has been extended by* ***two weeks*** *to allow for the current disruption and to enable additional support sessions after Easter.* |
| Mode of assessment | *Yes* | *The app demonstration and viva has been changed into a submitted ‘****presentation’******(annotated slides only – no presentation in person)*** *as it is no-longer possible to run the planned demonstration safely due to the Covid virus.*  *We will therefore require you to submit a fully annotated (voice or text) set of presentation slides to cover the core aspects of the app you have implemented. Similar to the previous presentation - you will be given a template / example for guidance.* |
| Assessment criteria (how we mark it) | *Yes* | *As the type of assessment has changed the criteria have had to change too. However, we will minimise the changes to* ***what*** *you need to do, only* ***how*** *you show it – by simply accomodating the existing criteria through your presentation instead of a demonstration. Please refer to the updated assessment specification on Moodle for details.* |
| Assessment activity (what you do) | *No* | *You will continue and complete your React Native app with our support. Once you have completed your app – you will submit a short presentation (e.g. annotated Powerpoint slides) to moodle for assessment. You will not be expected to present this in-person, but you should annotate your slides with text/voice to explain your implementation decisions.* |

**Detailed description of change**

*The topics covered will be the same. It is recommended that you focus on implementing your React native application as before, and then preparing a short presentation covering:*

* *The overall structure of your application (e.g. a class diagram to show which React Native components you’ve used and how they fit together to build your app)*
* *How you implemented your* ***User Interface. (****e.g. screenshots or a short video (embedded in presentation) of your running application – and code examples where appropriate)*
* *How you* ***persisted data on-device*** *(e.g. examples of code to show data writing and reading to local device storage – such as ‘AsyncStorage’)*
* *How you consumed external* ***web services*** *in your app, for cloud based data (e.g. data examples in JSON format, and code examples on how you accessed that data)*
* *Which* ***additional framework*** *you used in your app, and how (e.g. code examples of how you implemented your additional framework)*

*\*\*You should also submit the* ***fully commented source code*** *for your application, along with the presentation.*

**Modified assessment criteria.**

A table of modified criteria mapped to the learning outcomes is shown below (for guidance only):

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Assessment**  **Criteria**  *(mapped to learning outcomes)* | **1.**  **App Idea Presentation:**  **Quality of application design and investigation of mobile features and frameworks**  **(LO1)** | **2.**  **App Implementation Presentation:**  **Core UI Implementation**  **with data persistence**  **(LO2 & LO3)** | **3.**  **App Implementation Presentation:**  **Use of Web Services**  **(LO2 & LO3)** | **4.**  **App Implementation Presentation:**  **Use of additional [platform and native] Framework(s)**  **(LO2 & LO3)** | **5.**  **App Implementation Presentation: Understanding of Architecture and core Programming concepts**  **(LO4)** |
|  | **Weight:** | **30%** | **30%** | **10%** | **10%** | **20%** |
|  | **0 – 29%** | Minimal or significantly incomplete effort at describing the application idea. | Minimal or significantly incomplete attempt at implementing a basic React Native App. | Minimal or significantly incomplete attempt at consuming simple web service based data. | Minimal or significantly incomplete attempt at implementing *a single* extended feature in the React Native app using an additional cross platform OR platform specific API | Minimal or significantly incomplete implementation presentation – showing no understanding of the core concepts covered in the module |
|  | **30 – 39%** | A poorly formulated idea that shows little awareness of the targeted platforms and frameworks | A very poor (*unsuccessful – but code present*) attempt at implementing a basic React Native App. | A very poor (*unsuccessful – but code present*) attempt at consuming simple web service based data. | A very poor (*unsuccessful – but code present*) attempt at implementing *a single* extended feature in the React Native app using an additional cross platform OR platform specific API | A very poor overall implementation presentation – showing little or no understanding of the core concepts covered in the module |
|  | **40 – 49%** | A basic project idea that shows limited awareness of the targeted platforms and frameworks | A very basic (*partially successful*) attempt at implementing a simplistic (basic UI only) React Native App. | A very basic (*partially successful*) attempt at consuming simple web service data *(e.g. able to show reading of JSON data but not able to display)* | A very basic (*partially successful*) attempt at implementing  *a single* extended feature in the React Native app using an additional cross platform OR platform specific API | A weak implementation presentation – showing a weak understanding of the core concepts covered in the module |
|  | **50 – 59%** | A viable, but uninspired project idea, backed by some basic research into target platforms and frameworks | A basic *(successful*) attempt at implementing a React Native App,that demonstrates an *intuitive and robust UI* *– e.g. with multiple navigable screens* | A basic *(successful)* attempt at consuming simple web service data.  *(e.g. able to read – and partly display simple JSON based data from service)* | A basic *(successful)* attempt at implementing  *a single* extended feature in the React Native app using an additional cross platform OR platform specific API | A basic or partial implementation presentation – showing a basic understanding of the core concepts covered in the module |
|  | **60 – 69%** | A good project idea, backed by some basic research into target platform features and an awareness of essential frameworks. | A good *(successful)* attempt at implementing a React Native App, that demonstrates a highly robust and intuitive UI design, *including a very basic approach data persistence (e.g. settings / preferences, etc.)* | A good *(successful)* attempt at consuming simple web service data. *(e.g. able to fully read and clearly display – in a well formatted form - all data received from a single call to web service)* | A good *(successful)* attempt at implementing  *Multiple* extended features in the React Native app using an additional cross platform AND/OR platform specific API | A good implementation presentation – showing a good understanding of the core concepts covered in the module. |
|  | **70 – 79%** | A very good project idea, backed by detailed research into target platform features showing a detailed knowledge of essential frameworks. | A very good *(successful)* attempt at implementing a React Native App, that demonstrates a highly robust and intuitive UI design with a *more advanced approach to data persistence (e.g. SQLite database)* | A very good *(successful)* attempt at consuming and updating web service data. *(E.g. able to fully read and clearly display all data received from calls to web service, AND able to Add OR Modify backend data through service calls)* | A very good *(successful)* attempt at implementing  *Multiple* extended features in the React Native app using *at least one* additional cross platform AND *at least one* platform specific API | A very good and successful implementation presentation – showing a very good understanding of the core concepts covered in the module. |
|  | **80 – 89%** | A highly ***unique*** project idea, backed by detailed research into target platform features and ***a detailed knowledge of essential frameworks supported by the target platform.*** | A very good *(fully successful)* attempt at implementing a React Native App, that demonstrates a highly robust and intuitive UI design with full data persistence (as per previous criterion)*, and uses a basic state management strategy (e.g. Redox).* | A very good *(fully successful)* attempt at consuming and updating web service data. *(E.g. able to fully read and clearly display all data received from calls to web service, AND able to Add AND Modify backend data through service calls)* | A very good *(fully successful)* attempt at implementing  *Multiple* extended features in the React Native app using *at least one* additional cross platform AND *at least one* platform specific API | A very good and fully successful implementation presentation – showing a full understanding of the core concepts covered in the module. Able to fully and confidently explain code and architectural concepts deployed in the application code. |
| **90 – 100%** | | *An excellent and novel project idea* backed by an in-depth research of the target platform features and *an in-depth knowledge of essential frameworks and patterns to the extent that the student should be able to cite (code based) examples of chosen frameworks on request during discussion.* | An *excellent and professional* implementation of a React Native App, that demonstrates a highly robust and intuitive UI design with full data persistence*, using an advanced state management strategy and a full range of React-Native features (such as style sheets and other platform independent features).*  *The design of the application should show an in-depth awareness of advanced JavaScript programming paradigms and architectures.* | An *excellent and professional* implementation of a React Native App that smoothly consumes and updates complex web service data. *(e.g. able to fully read and clearly display and edit complex backend data – either using coherent multiple services (‘mash up’)* | A very good *(fully successful)* attempt at implementing  *Multiple* extended features in the React Native app using *multiple* additional cross platform ANDplatform specific API*.*  *The design of the application should show an in-depth awareness of advanced programming for the React-Native platform.* | An excellent implementation presentation – showing a detailed understanding of the core concepts covered in the module. *Also able to suggest design improvements to the presented implementation* |