ASSESSMENT BRIEF

Course:	Software Development
Teacher:	Fachtna Roe
Component Title & Code:	Mobile Technologies 5N0580 (MOBT)
Assessment Technique:	Skills Demonstration (#1)
Assessment Title:	"Prototype App"
Weighting:	10%
LO's Assessed:	**LO** 4
Issue Date:	2024-01-08
Submission date:	

Overview of Brief:

"Create a prototype GUI design for a Health Information App*, with demo program. The interface should be easy to use, and attractive. Your GUI should consist of components and sufficient functions to allow feasibility testing/user feedback for the proposed programme".*

Assessment activity guidelines/instructions to learners:

Create a working-prototype and GUI design for an App as planning for a Health Information app. The interface should be easy to use, and attractive. Your GUI should consist of components and sufficient functions to allow feasibility testing/user feedback for a commercial programme.

The program need **only** be sufficiently operational to enable testing using volunteers. The program need **not** be completed to release standard; it needs **only** to facilitate "superficial triggering of basic events", as required to present a demonstration of the concept to a potential investor or client.

Screens are:

- BMI input screen to enter basic data, with submit button

No data need be saved to the device or to a back-end; protection against common programming pitfalls should be included. As part of your code ensure data is converted or cast as required for safe calculation.

Platform/design:
You are required to create a semi-functional prototype demonstration using **Android Studio**, following the criteria specified in this brief.

NB: This preview App may use a web-based BMI calculator of your own creation, as the basis for a PWA.

Your demonstration prototype should be good enough to demonstrate to a prospective client how you imagine the final program *might* look.

Produce design sketches/specifications that illustrate the GUI and it's basic operation. Include these as evidence of your design process, and include also evidence of testing.

Your design diagrams may use on-line tools such as from (eg **http://plantuml.com** or **https://www.draw.io/**). Hand drawn sketches and diagrams are acceptable, but must be scanned for submission.

Deliverables:
Submit your report using html, where each file other than the report file links (via hypertext anchor, or in-line for images etc) to all of the other files in the submission. The report file name must be **`index.html`** – this is the only file that will be opened directly from the file-system for this assignment by the examiner. You must therefore weave each file into the 'story' of your report.

Include among the linked supporting files:

- 1 screen design sketch
- A screen shot of final design
- A UX work-flow diagram
- UML use-case diagram
- Java code for your MainActivity.java;
    - put this in your HTML page between `<code><pre></pre></code>`
- HTML/CSS/JS for your online bmi calculator;
    - `put this in your HTML page between` `<code><pre></pre></code>`
- Evidence of testing.

Submission: Single HTML file (**`index.html`**) with all resources (images etc) linked in, in a folder called *eg* **`red/1/MOBT1-RED1/`** submitted via **t.fachtnaroe.net**.

More information:

You may inform yourself and learn about the BMI calculation and meaning here (https://www.safefood.net/bmi-calculator) and here (https://www.hse.ie/eng/services/list/2/primarycare/east-coast-diabetes-service/management-of-type-2-diabetes/lifestyle-management/weight-management/).

Marking:

	Marks	Criteria
	1	**Documented Source Code (0.5 marks each)** • Algorithm, use case diagrams etc provided • Plan provided
	3	**Program Functionality (1 mark each)** • working program • appropriate conversions performed • data stored/retrieved effectively
	5	**Effective UI (1 mark each)** • appropriate colours, images • ease of use • screen designs reflect purpose etc • navigation effective • UX is positive
	1	**Software Testing/Debugging (0.5 marks each)** • evidence of software testing, e.g., documentation of problems/bugs • screen captures, visual/digital evidence provided