



ASSESSMENT BRIEF

Course: Software Development

Teacher: Fachtna Roe

Component Title & Code: Mobile Technologies 5N0580 (MOBT)

Assessment Technique: Skills Demonstration (SKILLS2) (MOBT)

Assessment Title: Android Native Application (MOBT)

Weighting: 40% (MOBT)

LO's Assessed: LO 5, 7, 8, 9, 10, 12 (MOBT)

Overview of Brief:

You previously "Created a prototype GUI design for a Health Information App,", using a web-based calculator displayed in a local Android WebViewer program.

You must now create a native version of the App for your Android device.





You may re-use previous code from open sources, but credit must be given, and licences must be adhered to. The completed work **must** be your own.

 Issue Date:
 2024-03-13

 Review Date:
 2024-03-19

 Submission date:
 2024-04-19

Assessment activity guidelines/instructions to learners:

(splash, main, settings)
Create a minimum 3-screen Application, facilitating a user to:

Support materials

The AppInventor-JavaLibrary and the kawa library are available at https://fachtnaroe.net/apks

Look at **appinventor.mit.edu** for a visual understanding of how Appinventor functions work, and what you can do with the different sensors and objects.

There are sample and demonstrator programs zipped and available at https://fachtnaroe.net/apks

In particular at the /apks location look for the bmi2, bmi3, bmi4 etc zipped project demonstrators. These show how to use the pedometer object, the TinyDB object, and a variant of the appinventor Slider object which may be useful as an input for adjusting stride length when configuing the pedometer.

Deliverables:

Submit your program and 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 <u>only</u> 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.

The Android app must be cleaned before compression, then zipped and made available though a link in your **index.html**

Include among the linked supporting files:

- The cleaned, compressed, App folder
- 1 set, screen design sketches
- A UX work-flow diagram demonstrating user operation
- UML use-case diagram
- A screen shot of each final screen
- Java code for your MainActivity.java;
 - o put this in your HTML page between <code></code>
- Evidence of testing.
- Project report

Participate in the development of the App with the same person whose Software Architecture #6 you tested (webviewer version).

Submission: Single HTML file (index.html) with all resources (images etc) linked in, in a folder called *eg* red/1/MOBT2-RED1/ submitted via t.fachtnaroe.net.

The submitted page may be used for your Client Website assignment.





Marking scheme:

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Mobile Technologies 5N0580	Learner Marking Sheet 1	
	Skills Demonstrations/Projects	
	70%	

Learner's Name: _____ Learner's PPSN: ____

Assessment Criteria	Maximum Mark	Learner Mark
Wile Demonstration 1		
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graphs, but the and adjusted strength is made about		
Name of the last o		
Skills Demonstration 2		
 Participate in the execution of a project plan addressing the on-going 	5	
planning, maintenance and upgrading of mobile platforms and		
technologies		
 Demonstrate a basic mobile application development lifecycle, 	10	
including API description for various operating systems, user interface		
considerations and deployment requirements		
 Explore the use of programming concepts in mobile application 	10	
development		
 Demonstrate an understanding of mobile app development concepts 	5	
and working with APIs		
 Use local and networked data and data stores 	5	
Use a mobile application development environment to install,	5	
configure, test, and deploy a prescribed basic mobile application		
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Total Mark	70	