# Description

Ubitronics have a need for a new Android app which needs to be built in Android Studio and be compatible with KitKat 4.4 and above. There is a two-month deadline for the completion of the app. There are no external stakeholders that need to be informed for this project and the developer can use creativity and imagination to create the user interface. The code should be structured in a clean, professional manner.

# Stakeholders

Joseph Cullen (Developer, Ubitronics Director)

# Aims

There are three main aims for the app to achieve. The finished app will see the successful implementation of these main features:

* A Clock
* A Timer
* A Stopwatch

# Goals

This project is aimed to simulate a scenario similar to that of a client. The main goals of the project are to:

* Keep to the two-month deadline
* Achieve all sub-aims stated above
* Improve skills in Android Studio and Java
* Create templates and documentation to use for future projects

# Tasks

Tasks are not in order of required completion but will usually be processed in a similar sequential order.

* Setup Project in GitHub
* Create Android project
* Make simple interface with three tabs
* Populate tab one with a clock
  + Analog clock display
  + Digital clock display
* Populate tab two with a stopwatch
  + Starts at 0.00
  + Counts up when ‘Start’ is pressed
  + ‘Start’ changes to ‘Stop’ when activated
  + ‘Stop’ pauses the counter
  + ‘Split’ records a split time but carries on counting
  + Splits are shown in a table below the timer
  + ‘Reset’ puts the counter back to 0, Split times are not removed
  + ‘Clear’ wipes all the split times
* Populate tab three with a timer
  + Set a time in seconds, minutes or hours
  + Press ‘Start’ to activate the timer
  + The counter counts down to 0 from the time given
  + When it reaches 0 an alarm sounds / vibration is enabled.

# Constraints

The constraints for the project are:

* Developed in Android Studio
* Compatible with Android devices running KitKat and above
* Compliant with UK and EU laws
* Google Play store compliant

# Budget

There is no budget for this project. The app should be created in spare time and around other commitments.

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| Resource | Amount | Details |
| Ubitronics | £0.00 | Ubitronics are not funding this project. |
| Vendor (client) | £0.00 | As I am the client, there is no additional funding for this project. |
| Personal | £0.00 | I am putting time into the project but not expecting a monetary return or funding the project financially. |
| Other | £0.00 | There are no other sources of funding for this project. |