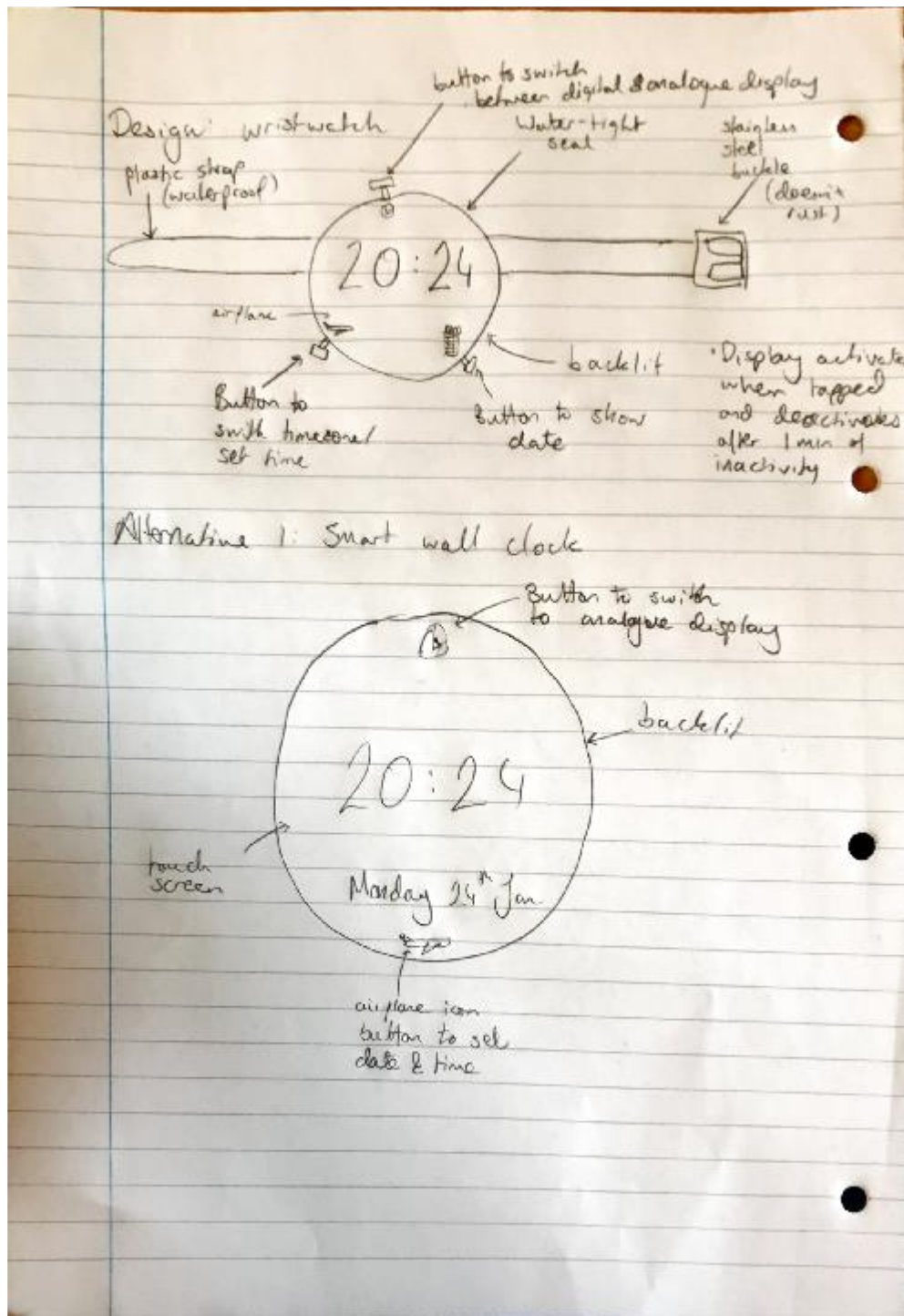


a.

- Functional
 - i. Display the time in digital format
 - ii. Display the time in analogue format with 3 hands
 - iii. Display the date
 - iv. User should be able to set the time and date manually
 - v. User should be able to set the timezone and have the time and date set automatically
- Non-functional
 - i. Should be visible in the dark
 - ii. Should be accessible to people with poor eyesight
 - iii. Should require very infrequent charging/battery change
 - iv. Should not break in the rain
 - v. Interface should be clear and uncluttered
 - vi. Should be relaxing to use



b.
c.

- Prototype 1: Wristwatch
 - i. H.2 is violated somewhat by the airplane icon. This is not ideal to represent changing the date and time because travelling by plane is not the only reason the local time changes.
 - ii. H.3 is violated as the user must tap the screen every 1min in order to keep the display on. This means that it would be difficult to e.g. time something like a stopwatch.
 - iii. H.3 is violated by the fact that there is no way to choose between 12 hour and 24 hour digital display.

- iv. H.6 is violated by the fact that all of the external buttons are identical so without looking at the icons (e.g. when the display is inactive), the user has to remember which button performs one task.
- v. H.8 is violated by the icons which (evenly spaced to avoid confusing the buttons) disrupt the minimalist design of the interface

Overall the severity rating is 2, as the confusing button layout and icons are only a minor usability problem.

- Prototype 1: Wall clock

- i. H.2 is violated somewhat by the airplane icon. This is not ideal to represent changing the date and time because travelling by plane is not the only reason the local time changes.
- ii. H.3 is violated by the fact that there is no way to choose between 12 hour and 24 hour digital display.
- iii. H.7 is violated by the buttons being on opposite sides of the screen. This means that the user might have to bounce back and forth between the two sides

Overall the severity rating is 1 as the problems are mainly cosmetic.