

application would be run and the feature would be checked against fulfilling its requirements. If it did not work, the code was carefully examined and executed again, this time with inserted several sensible Log.e statements (as part of the white-box testing already mentioned above) to determine what had gone wrong. This would be repeated until the feature started to work, which of course meant that time spent working on some of the features was overly long as it was difficult to determine if it can eventually be implemented or not.

5.3.1 Testing Equipment

The part of black-box testing carried out while the application was being developed was performed on two smartphones running the Android operating system; their specification can be seen on Figure. 36. The main difference between them was that the Sensation had a slightly newer version of Android, their screen sizes were also different, and HTC Sensation also had a significantly faster CPU and more memory. Neither the Android version difference nor the screen size differences did seem to have any influence on the application itself, even though it did not have any explicit features for handling screen resizing.

Device name	HTC Desire Z
Operating system	Android 2.3.3 Gingerbread (with HTC Sense 2.1)
CPU processing speed	800 MHz
Memory	512 MB
Display size	3.7"

The application worked perfectly fine on this device, no problems have been encountered.

Device name	HTC Sensation
Operating system	Android 2.3.4 Gingerbread (with HTC Sense 3.0)
CPU processing speed	1.2 GHz Dual Core
Memory	768 MB
Display size	4.3"

The application worked perfectly fine on this device, no problems have been encountered.

5.3.2 Test Table

This section contains Figure 36 which is the test table used in this project as means of determining if the application's features are implemented and working or not. It is important to state that it also lists those features which were included in the number of primary objectives but were not implemented – thus a certain amount of failures are expected to be seen in the table.

Legend:

- **Passed** – the test passed on all machines
- **Passed** – the test passed on most machines but also failed on some
- **Failed** – the test failed on most machines