

This document compares M-GWT and Vaadin Touchkit with the native UI of Android and iOS devices. The comparison was done using the showcases of both projects and the current versions of iOS (7.1) and Android (4.4).

## 1) M-GWT

Showcase: <http://mobilegwt.appspot.com/showcase/>

General:

- M-GWT uses the client's user agent string to decide which design to load.

iOS Platform:

- The design is based on iOS versions prior to iOS 7. Since iOS 7 introduced heavy design changes, M-GWT strongly differs from the native UI.
- Various controls are using designs from much older iOS versions.
- Various controls are using a simplified design.
- Some control areas are too big and do not fit into the viewport.
- Some design elements (bars, rectangles) overlap.

Android Platform:

- The Android Design is mostly based on the iOS design.
- Changes have been applied to the background (a dark gradient) and the input controls.
- The behaviour is the same as in the iOS design.

## 2) Vaadin Touchkit

Showcase: <http://demo.vaadin.com/parking> and <http://demo.vaadin.com/mobilemail>

General:

- Vaadin Touchkit loads a pre-defined design independent from the client's platform.

iOS Platform:

- The design is inspired by iOS versions prior to iOS 7, but shows significant differences in the used colors.
- The behaviour is similar to iOS.

Android Platform:

- The design is very loosely oriented on current Android versions' design.

## 3) Conclusion

On both kits, the look is based on the native UI of current (Android) or older (iOS) platforms. The heavy design changes in iOS version 7 highlight the fact it is not a native application. For both kits, it is unclear if an iOS 7 based design will be released. Apart from the iOS 7 issue, significant differences to the native UI are noticeable, predominantly in colors and backgrounds.

M-GWT tries to copy the native design but has a simplified design and minor flaws in some controls. The look is very similar to the native UI, but often the behaviour is different from the native controls and sometimes a bit buggy.

Vaadin Touchkit uses a design based on the native UI. While the look (colors, backgrounds) is noticeable different from the native design, the behaviour is pretty similar to the native UI, which leads to a much better „feel“ than in M-GWT.