

# Partaheikki Application Platform Architecture Description

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Partaheikki Application  
Platform is an application  
software platform for the  
development of iOS apps.

# Features

Modular and battery efficient for 24/7 tracking applications

Supports various data sources:

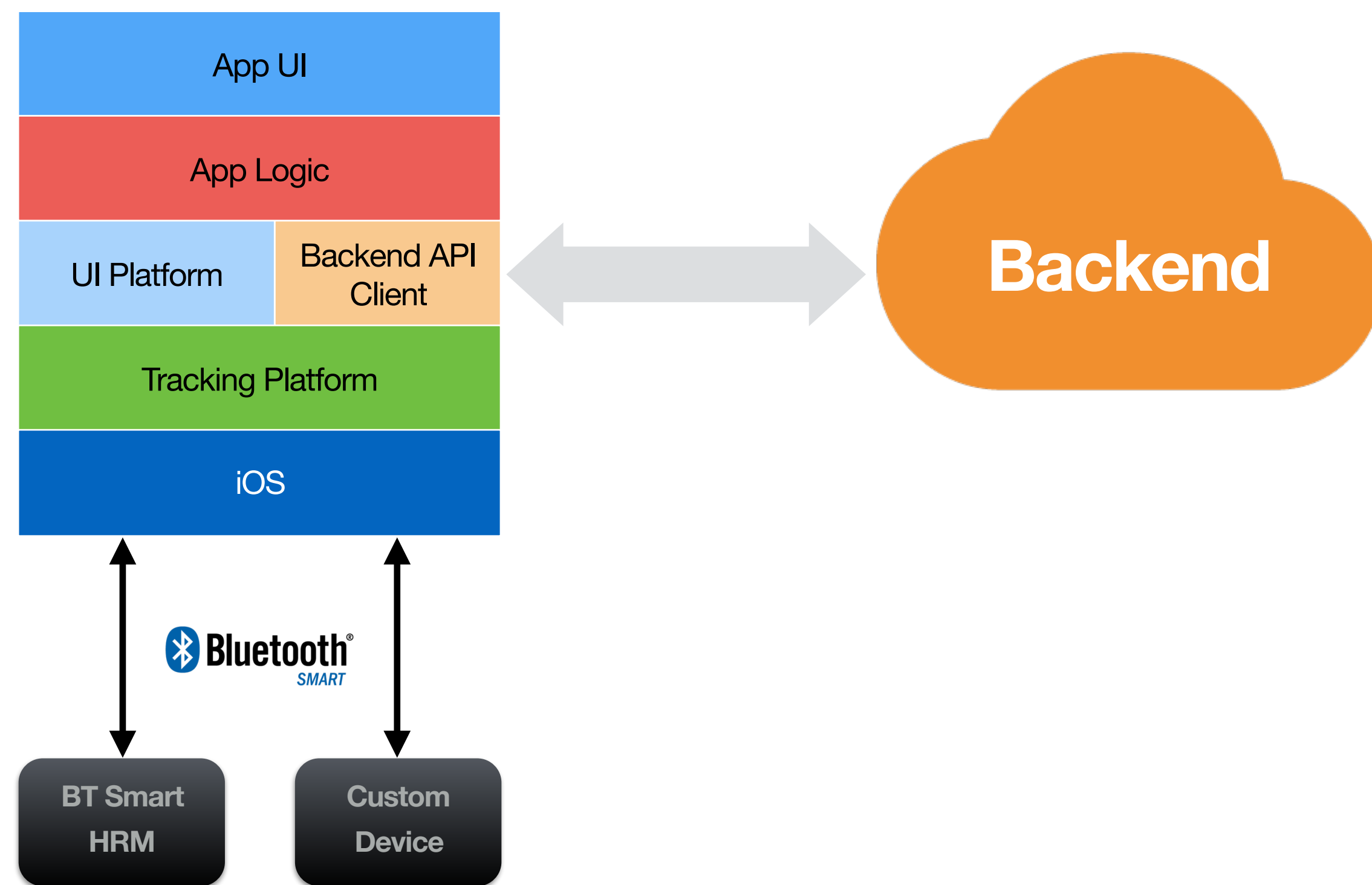
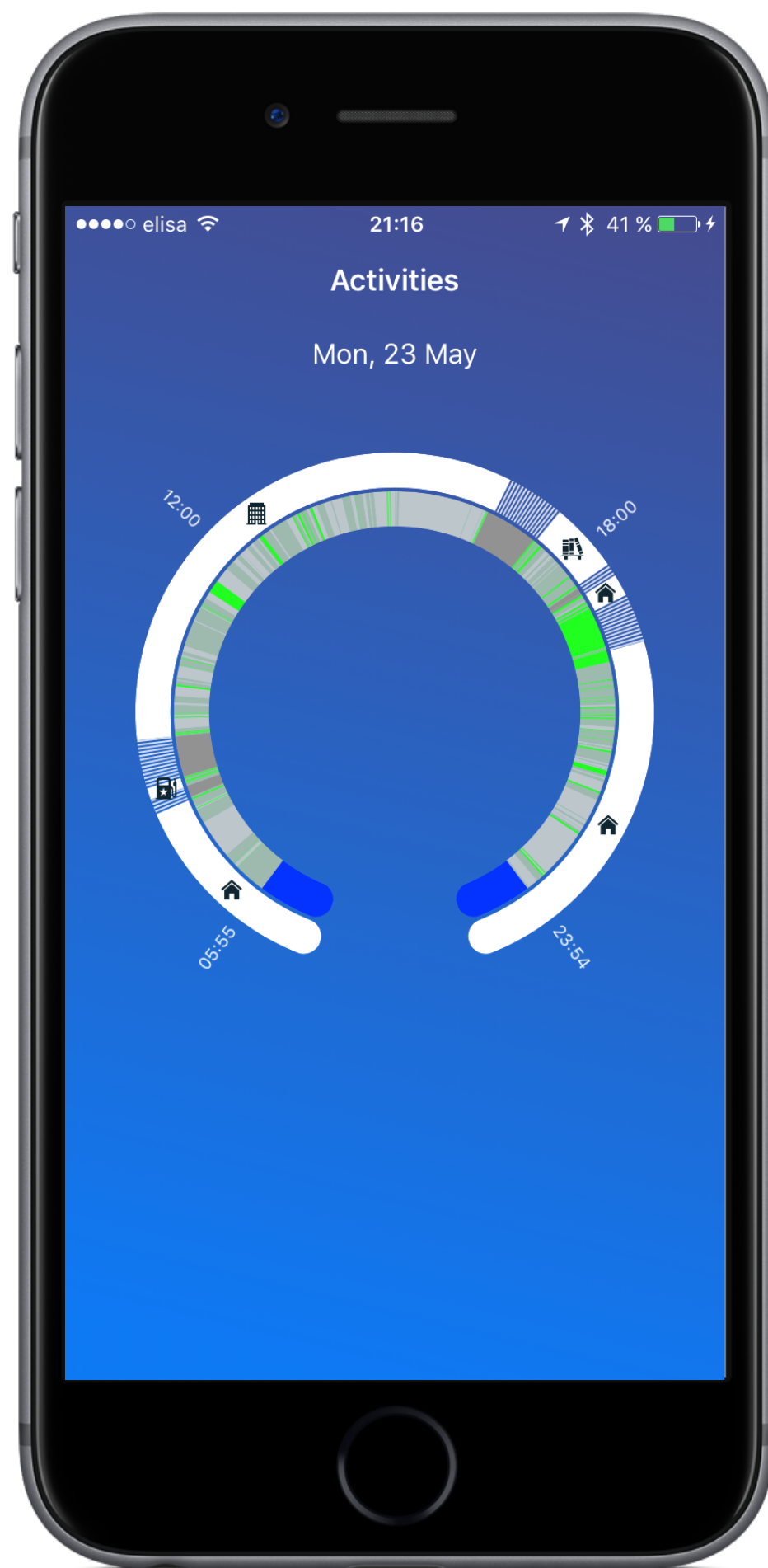
- Activity recognition, location etc. via iOS APIs
- Bluetooth Smart devices, e.g. heart rate monitors
- Easily adaptable to vendor specific devices

Support for HealthKit both as a data source and repository

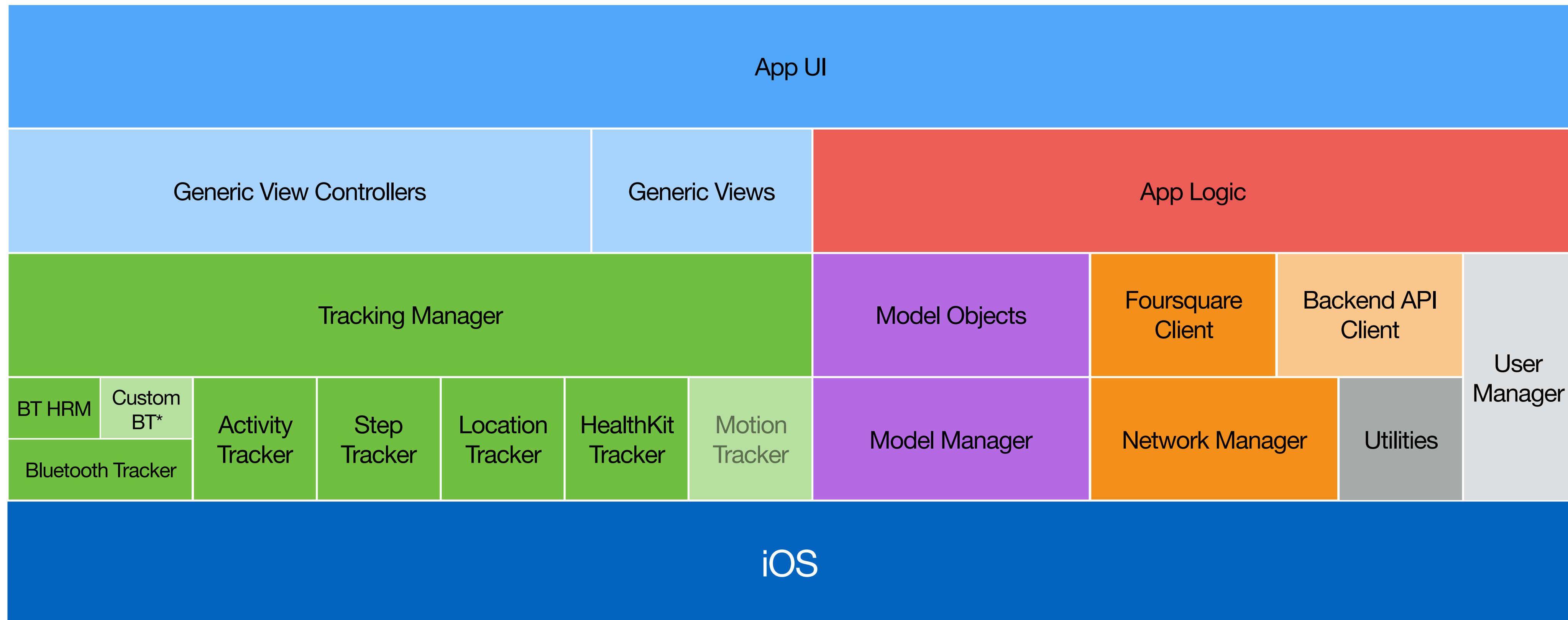
Foursquare integration for location information (venues)

Generic UI components, networking support for API clients, and other utilities to speed up app development

# Anatomy of an iOS Tracking App

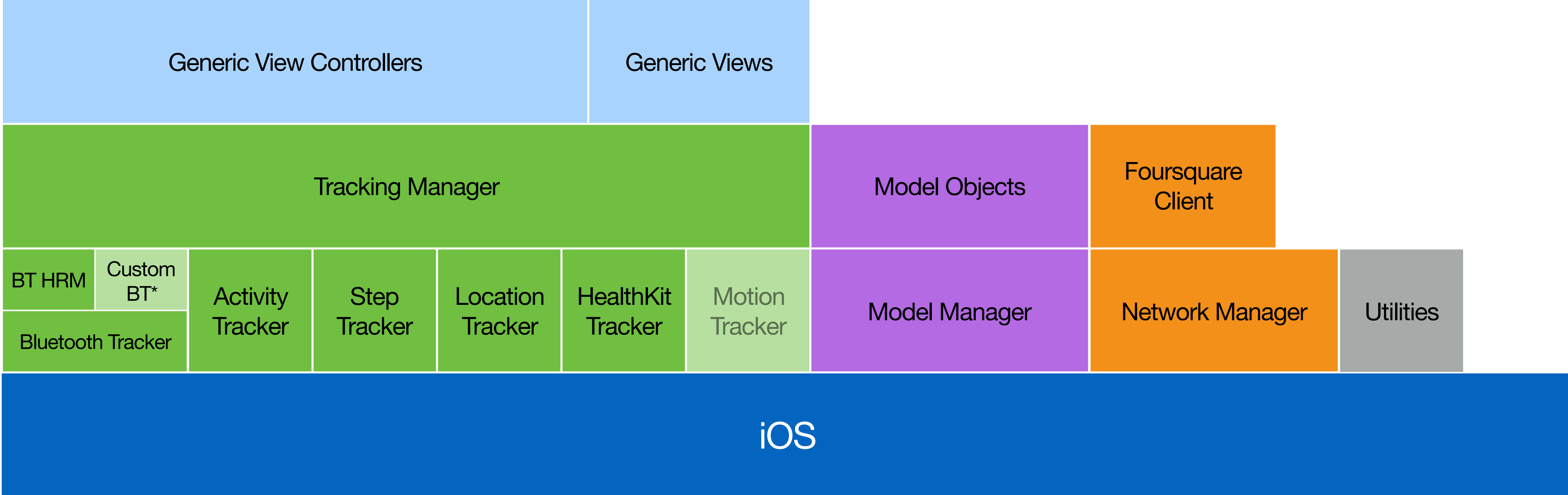


# iOS Tracking App Architecture



\*) device specific, but uses the generic Bluetooth Tracker to scan and connect




# Platform Architecture



\*) device specific, but uses the generic Bluetooth Tracker to scan and connect

# Deployment & License

Delivered as a modular set of universal frameworks

-  PartaheikkiActivityTracking.framework
-  PartaheikkiTracking.framework
-  PartaheikkiUIKitUtilities.framework
-  PartaheikkiNetworking.framework
-  PartaheikkiUtilities.framework

Platform frameworks dynamically linked with the app and embedded in the app bundle (iOS 8 or later)

Binary and source license options for commercial use

# Example App: Activities

- Activities tracks your daily life automatically in the background
- Includes physical activities, such as walking, running, and driving, as well as the places you visited
- Activities also performs simple sleep analysis based on the recorded motion activity of the phone
- More advanced sleep and workout tracking via HealthKit with dedicated apps and devices
- Written from scratch using the Partaheikki Application Platform in about two weeks
- Concept designed in collaboration with Nordkapp ([nordkapp.fi](http://nordkapp.fi))

