

App Development / Titanium Training / Workshops

We have been using the Appcelerator Titanium cross-platform development environment successfully for five years. This framework enables the generation of native apps for iOS, Android and Windows Phone from one code base. The advantage of this is a reduction in the amount of communication necessary and an acceleration of the development process.

We are happy to pass on this knowledge in on-premises training and workshops. A week of training enables the team to start off with their first projects. After a short introduction to Setup and API, on the third day we start writing example apps that can be inspired by your daily business. Using live coding and exercises the participants learn how to design an app, what aspects have to be considered in order to achieve a good technical design and how a growing project develops in the long term. We also consider topics like performance improvement, traffic reduction and the minimizing power consumption.

This kind of training regularly results in a long-term cooperation, where we support a project on a daily basis in an advisory capacity at the customer's premises or with extra training via Skype or supply other relevant consulting services.

In addition we develop native modules to implement project specific system-oriented functions.

Especially we developed Android and iOS modules for connecting to IoT-devices over TCP/IP and other protocols like MQTT – i.e. we implement a gateway to TinkerForge for communicating with CAN-Bus, RS232 and RS485. The software is open source and will be hosted on github.

Some successful example projects are listed below

Maintenance-App for service company

A service company maintained cash machines, statement printers, self-service terminals, deposit or payment system in whole D.A.C.H.

To improve the service quality the company uses an iPad-App. Areas are fault ticket processing, preparation of the service certificate, time recording, inventory management, material ordering, equipment inventory and equipment testing.

Our contribution was the in-house training of IT staff and the development of modules that ensure background synchronization of the ticket data between the smartphone and Domino server in the backend.

Enterprise App for a medical technology company

The Enterprise App runs on iPhone, iPad, Android Tablets and Android smartphones. The app's content is controlled by a backend system. Content is dependent on the relevant international market and is generated partly from available product information and also from a content management system (CMS) that the customer can use to enter additional information.

For each market a market specific SQLite database is generated. On starting up, market specific SQLite database is synchronised to the mobile device, so that all the data are also available offline.

The software has a modular construction so that it is easy to add new functionality at any time.

The following functions have so far been implemented:

- ▶ Product catalogue,
- ▶ Various laboratory calculators,
- ▶ Laboratory timer,
- ▶ Cell counter,
- ▶ 360° image viewer,
- ▶ Product videos,
- ▶ Augmented reality for the virtual positioning of equipment in the customer's laboratory,
- ▶ Contact form

- ▶ Sales network,
- ▶ Message channel with push notifications,
- ▶ YouTube channel.

Commercial App for a provider of financial services

The App runs on iPhone, iPad, Android Tablets and Android smartphones. The app implements a mobile CRM combined with a home banking system.

For security reasons the app is not permitted to make any network connections except to the bank's own server, so all functions are implemented in the mobile device. E.g. all PDF documents (offers, invoices and reminders) are generated locally on the mobile device.

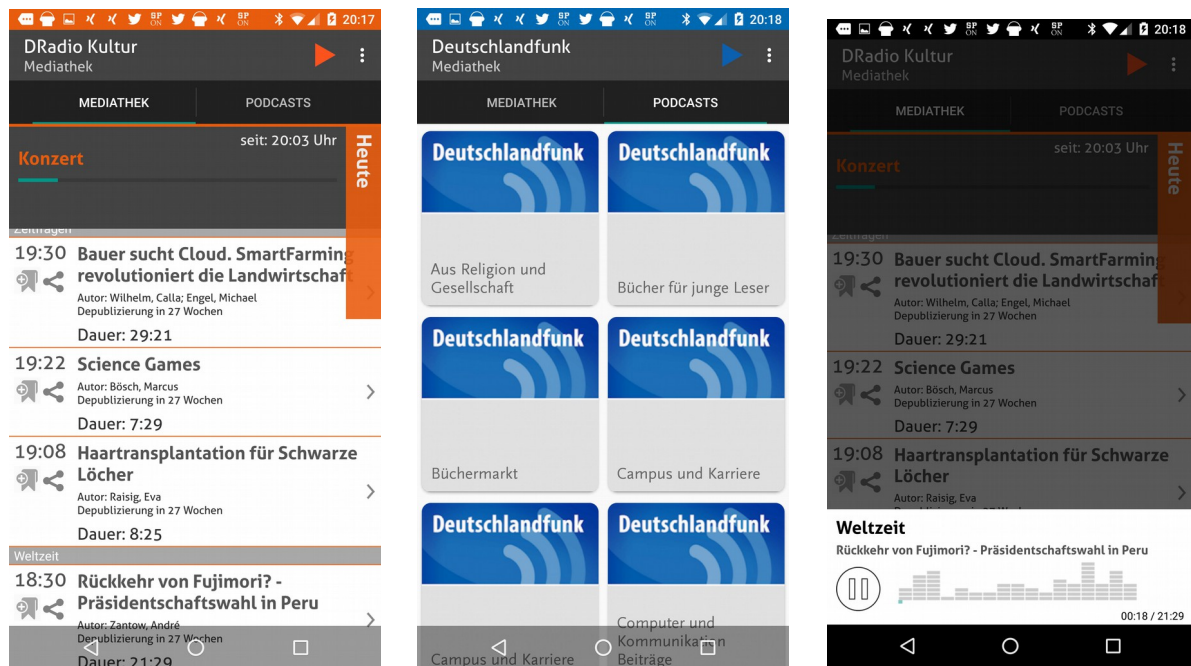
Deutschlandradio/Deutschlandfunk

The app was conceived and designed to enable users to browse and listen to Deutschland Radio's (DLF, Dradio Kultur and DR Wissen (Knowledge)) content when it suits them.

It covers the areas of media library, podcasts and live radio. Non-current data are synchronised daily in the background, while the media library is synchronised continuously. The Live Radio also displays the radio text data. Library posts can be shared on social networks and also saved locally in a reminder list. These offline entries make up a personal playlist, so the user can hear the morning commentary or listen to other interesting contributions while driving to the office.

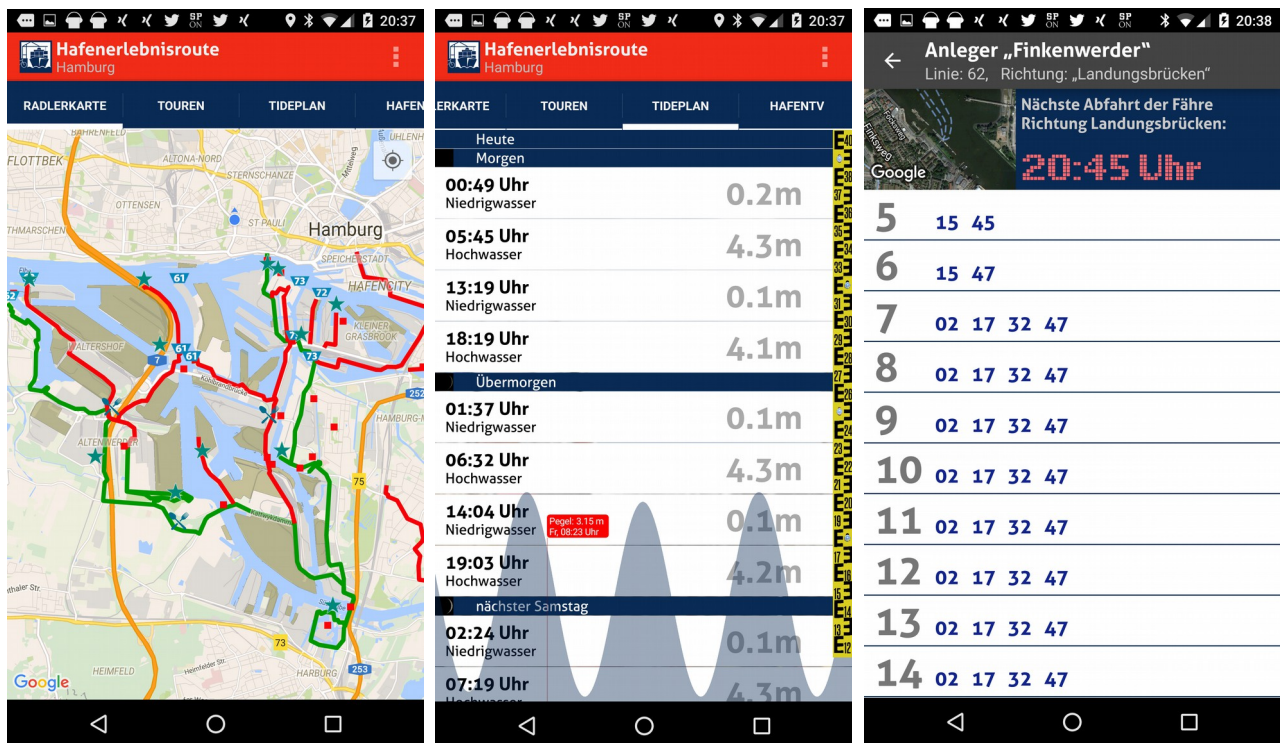
The broadcasting schedule magazine can be downloaded as a PDF or sent straight to a Wi-Fi

printer.



Hamburg Port Authority (HPA) Port Experience Route (Harbour cycling)

Many visitors to Hamburg like to explore the port by bike. This Android app helps them find their way. Information about the tides, ferry departure times and HafenTV (Harbour-TV) round out the app.



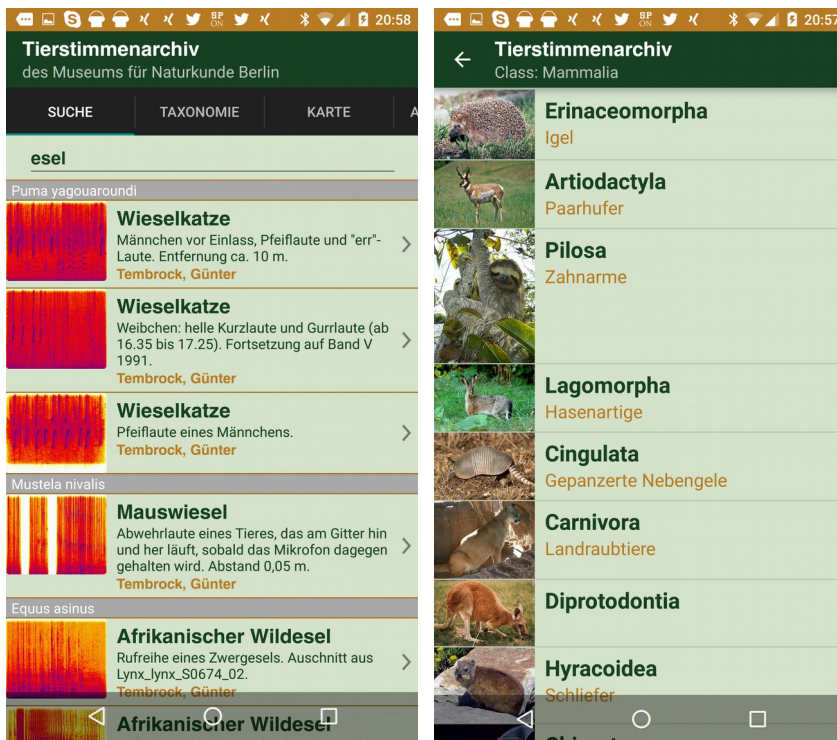
Tierstimmenarchiv des Naturkundemuseums Berlin

This Android app makes available the Berlin Naturkundemuseum's (Humboldt Natural History Museum) archive of 12000 animal sound recordings.

The following functions were implemented:

- ▶ World map with all recordings,
- ▶ Super fast search,
- ▶ Taxonomic tree in all classes, orders, families and species,
- ▶ Homepage for each recording with playback, spectrogram and even the option to use an animal sound as a ringtone,

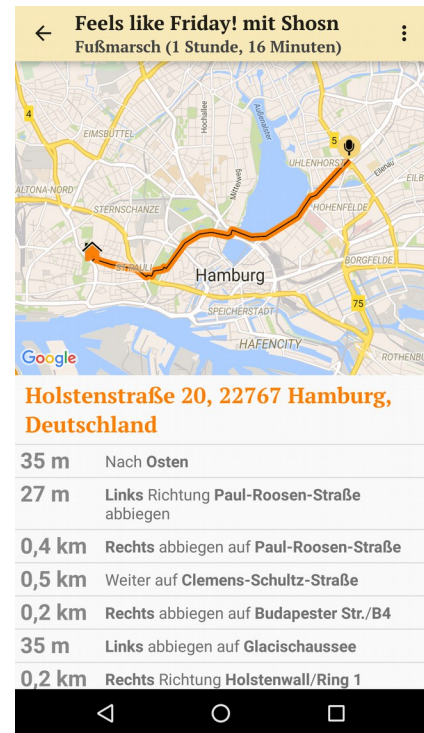
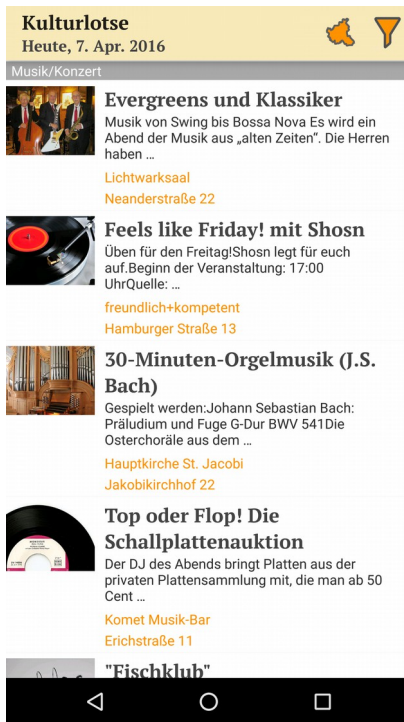




Culture Pilot

The “Culture Pilot Club” keeps a database of free cultural events in Hamburg. This Android app makes this information handily available to Hamburg’s residents. The user can see and filter all events scheduled for today and tomorrow.

On a second page he can navigate to the event location. A map shows StadtRad city bike sharing and car2go Smart car sharing locations. Also “Stolpersteine” (Stumbling Stones) floor plaques and the all rail tunnels (useful information for claustrophobes) are listed.



Amphibian counter for NABU (Naturschutzbund Deutschland = Nature and Biodiversity Conservation Union Germany)

The app was developed to enable the counting of frogs etc. at a safety fence. When counting is done, counter values can be sent by email. Additionally there is an animal determination (dichotomy) and a frog sounds collection.

HörDat

HörDat is an app that shows all the current radio plays on German language cultural radio broadcasting stations. A timer can be set to remind oneself of transmission times.

HörDat

Dein Hörspielkalender

HÖRPLAN

LIVERADIO

DKultur

The Colony

Freitag 00:05 Uhr

RTE 2014, Min. (Stereo) - Feature

DKultur

Wörter auf Abruf – Die Lange Nacht über Günter Grass

Freitag 00:05 Uhr

DLF/DLR 2007, 166 Min. (Stereo) - Feature

DLF

Der Verbrecher

Freitag 00:05 Uhr

WDR 1995, 54 Min. (Stereo) - Bearbeitung Literatur

WDR®

Marlov und die Kreml-Pille

Freitag 19:05 Uhr

WDR 2016, ca. 55 Min. (Stereo) -

SRF

Im Außeralpinen

Freitag 20:00 Uhr

SRF 2015, 56 Min. (Stereo) -

DLF

Rückspiegel, Speicher und Loops – Tonspuren der Künstlerin Michaela Melián

Freitag 20:10 Uhr

Im Außeralpinen

Patrick Savolainen

Beginn

Freitag 20:00 Uhr

Station

SRF 1

Autor(en)

Patrick Savolainen

Regisseur(e)

Produktion

SRF 2015, 56 Min. (Stereo) -

Komponist(en)

Barblina Meierhans

Ein Buch schreiben, soll der junge Mann. Über eine Stiftung, über Schweizer Himalaya-Expeditionen in den 40ern, über die Gletscherschmelze. Es wird eine Expedition ins Archiv, wo sich Journale zu Bergen auftürmen, wo Schnee in den Gängen liegt, wo die Luft so dünn ist, dass aus Denken Träumen wird... «Ein stilles, kleines Zimmer. An der rechten Wand ein langer Holzschrank, der restliche Raum ist ausgefüllt mit Regalen. Schachteln und Pappmappen: "Everest 1952", "Journale, Expeditionsteilnehmer Garhwal 1939", "Karte Karakorum 1:25000". Wer in den Unterlagen stöbert, der macht sich auf zur Besteigung eines Berges aus Geschichten und Berichten, der SSAF heisst, Schweizerische Stiftung für Alpine Forschung. Seine Topografie: Ungewöhnlich. Die Witterung: wechselhaft. Weite Ebenen und hohe Plateaus wechseln sich ab mit steilen Graten, überhängenden Wänden und gefährlichen Wächten.» (Savolainen)

HörDat

Dein Hörspielkalender

HÖRPLAN

LIVERADIO

hr2

fi

hr2

fi

Freifunker – Free Radio

The Freifunker make available a public WiFi Network for no charge (Freifunk = Free Radio). The app shows all current available access points in the German speaking area. In an offline part one can use a compass to take navigate to the next available router.

