JADE HOCHSCHULE
Wilhelmshaven Oldenburg Elsfleth

IAPG
Institut für
Angewandte Photogrammetrie
und Geoinformatik

Mobile Mapping of Dragonflies and Birds by Portable Web Apps

Motivation

- *situation:* knowledge about wildlife based on regular observations mostly done by volunteers
- *goals:* ensuring quality & attracting young people
- *approach:* mobile applications for fieldwork & GIS for post-processing

ARDINI Project

- *partners:* 2 universities, 1 GIS company, 2 environmental associations
- *supported species:* dragonflies, migratory birds, breeding birds

Mobile Mapping by Portable Web Application

- for ***different hardware types*** (smartphone / tablet computer)
- for ***different operating systems*** (iOS, Android)
- highly ***configurable***
- ***offline support***

Web Storage API
for configuration

Offline Web Application API
for offline capabilities

Images, Soundfiles, Descriptions
for supporting fieldwork

AJAX, JSON, GML
for data transfer to server

HTML5, JavaScript, CSS3

OpenLayers, OpenStreetMap / Google Maps

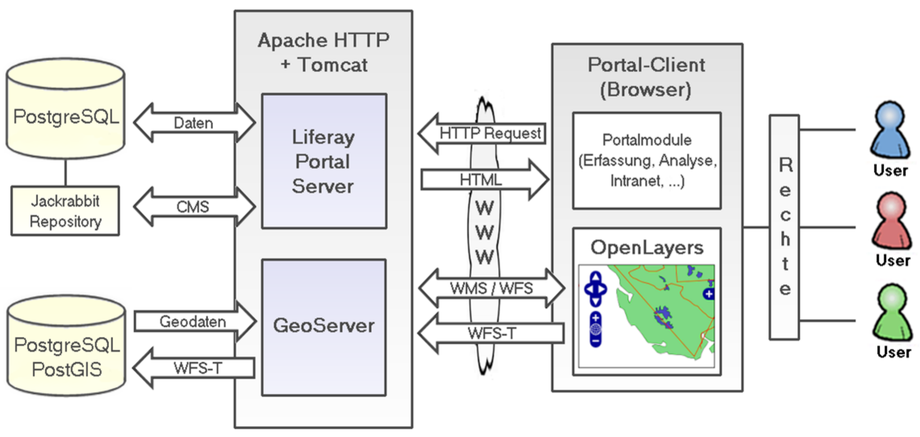
Web SQL DB API (SQLite)
for data management

Sencha Touch 2.0
as JavaScript framework

Geolocation API

paper in the proceedings

Post-Processing „eMapper“



Field Tests

Thomas Brinkhoff & Jan Loesbrock
Jade University of Applied Sciences Oldenburg
Institute for Applied Photogrammetry and Geoinformatics (IAPG)

{thomas.brinkhoff, jan.loesbrock}@jade-hs.de
http://iapg.jade-hs.de
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