

UI5con 2016

Inside a container – Persistence with UI5 on iOS

recounting an experience

Volker Buzek



> SAP-Consultancy with focus technology & innovation

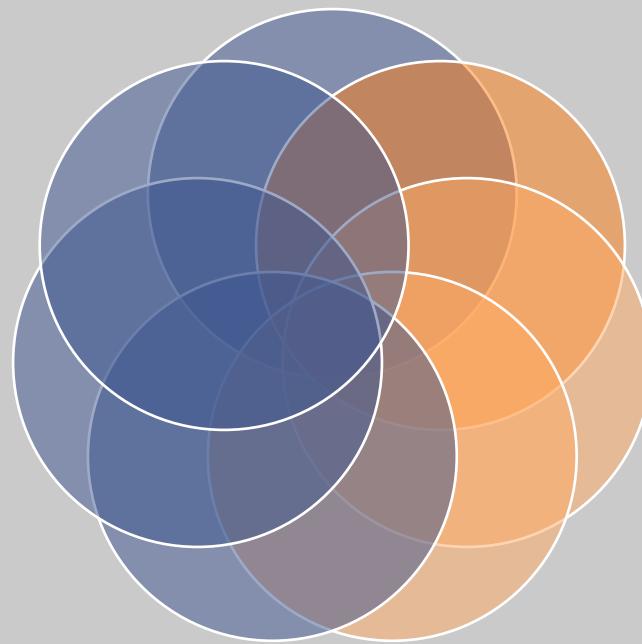
SAP Innovation
SAP Classic

Fiori, SAPUI5

SAP Gateway

HANA Cloud
Platform,
SuccessFactors

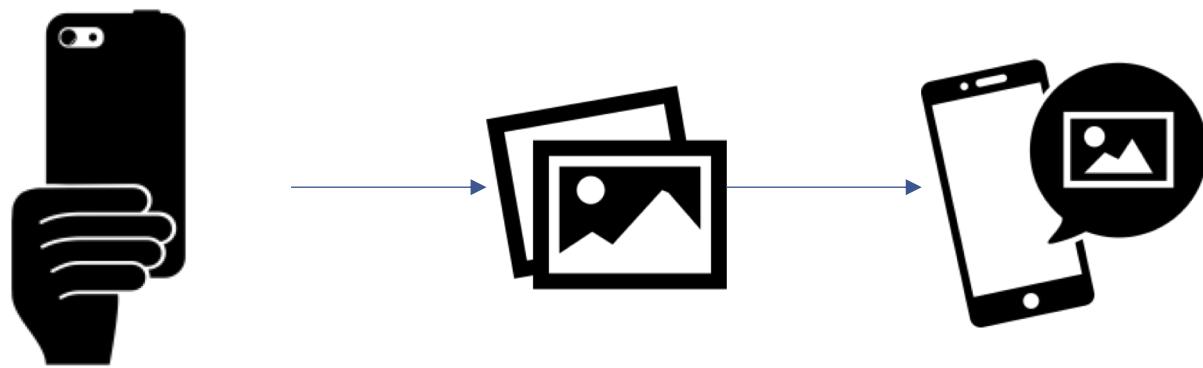
SAP HANA



SAP Netweaver,
PI

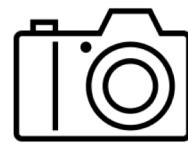
SAP Web Dynpro,
ABAP

SAP Interactive
Forms





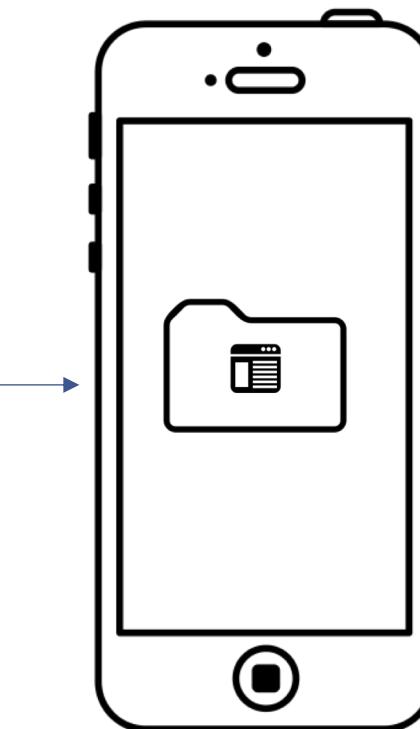
SAPUI5



cordova-plugin-camera



cordova (latest)



WebStorage:
LocalStorage, SessionStorage

~~jQuery.sap.storage.
(global|local|session)~~

WebSQL

deprecated

Indexed DB

~~WebView (iOS 8), buggy (iOS 9)~~

Filesystem & FileWriter API

~~iOS~~

iOS 8+

50MB
5MB

-> storage abstraction, OS layer

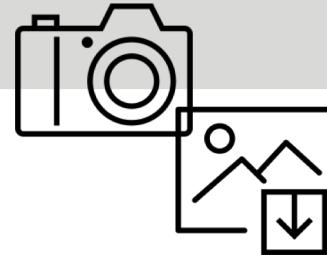
(!Blob -> Base64)

unlimited storage

non-blocking UI

iOS focus (Android in mind)

sync/replication capabilities



```
new Promise(  
    // do some stuff  
    if (everythingOk === true) {  
        // resolve a.k.a "return" the Promise  
        resolve(someValue);  
    } else {  
        // sth went wrong  
        // -> reject the Promise a.k.a "report" the error  
        reject(someError);  
    }  
)
```

```
// prepare DB
var oDb = new PouchDB('dive_pics');

// prepare Doc
var oDoc = {
    "_id": "dolphins", // minimum req
    "name": "Dolphin picture",
    "location": "Bonaire"
};

// store it, then retrieve and debug-log it
oDb.put(oDoc).then( function() {
    return oDb.get("dolphins");
}).then( function(oDoc) {
    jQuery.sap.log.debug(oDoc);
}).catch(function (oError) {
    // gnarf, error
    jQuery.sap.log.error(oError);
});
```

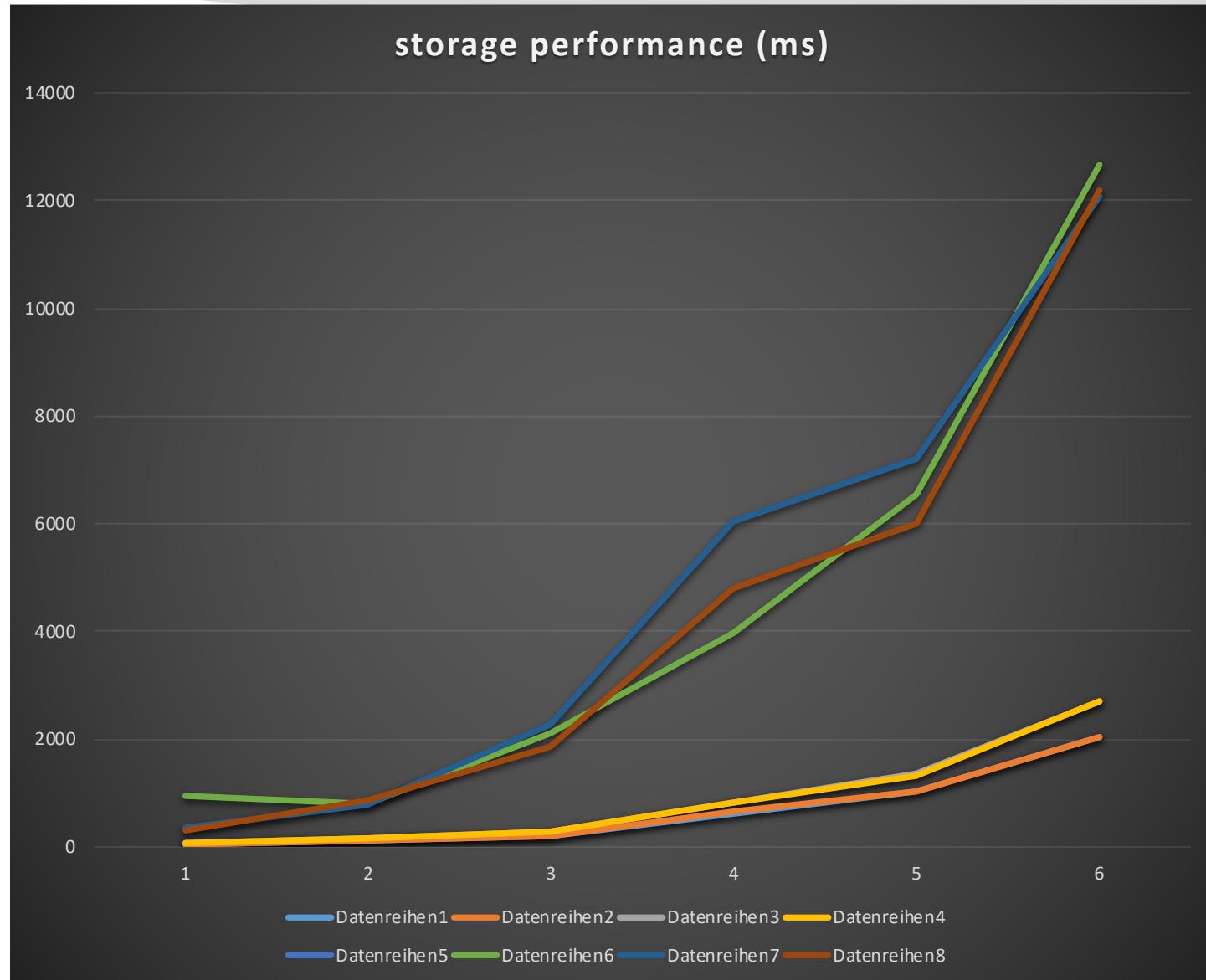
```
// cordova camera: take pic
navigator.camera.getPicture(successCb, errorCb, options);

// promisify it
function takePicture() {
    return new Promise(
        function(resolve, reject) {
            navigator.camera
                .getPicture(resolve, reject, options);
        }
    );
}
```

```
takePicture().then( function(sBase64) {
    // lock the UI
    EventBus.publish("lockUI");
    // special preparation
    var oDoc = { // ...
        "_attachments": sBase64
    }
    // store it
    return oDb.put(oDoc);
}).then( function() {
    // do some other stuff...
    // ...then unlock the UI
    EventBus.publish("unlockUI");
}).catch(function (oError) {
    // gnarf, error
    jQuery.sap.log.error(oError);
    // don't forget sth like this
    EventBus.publish("unlockUI");
});
```

Performance

OSX 10.11.3, 16GB RAM, Core i7, SSD / iOS 9.2.1, iPhone 6



Volker Buzek
Development Architect Mobility

M: +49 (151) 64962250
E: volker.buzek@js-soft.com

Icons by the Noun project,
specifically:

- misirlou, DE
- TNS, GB
- Garrett Knoll, US
- Abner Ignatius
- Andrey Vasiliev, RUS
- Austin Condiff
- Oliviu Stoian, RO

