



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

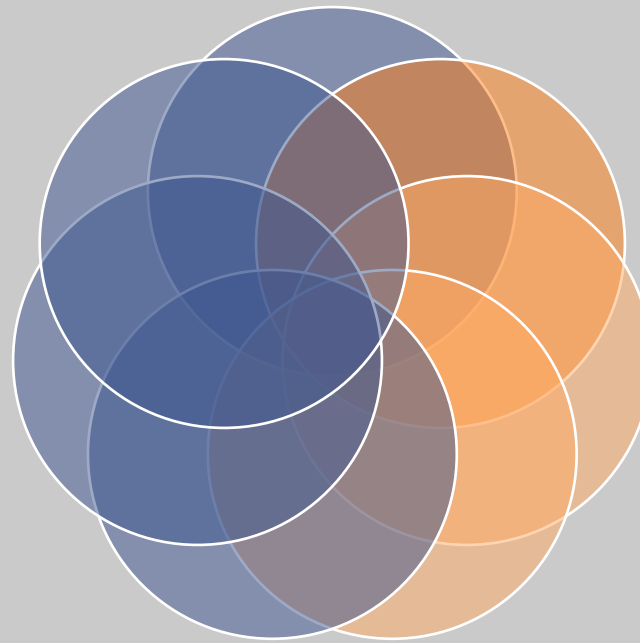
Fiori, SAPUI5

SAP Gateway

SAP Netweaver,
PI

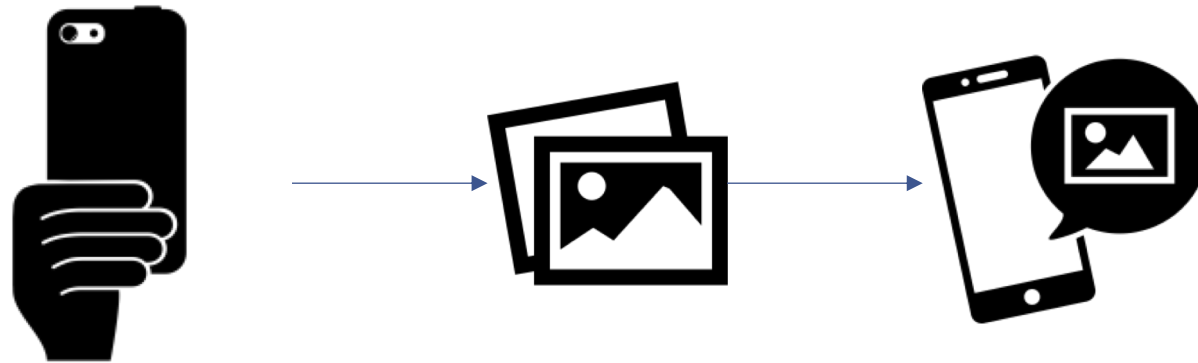
HANA Cloud
Platform,
SuccessFactors

SAP Web Dynpro,
ABAP



SAP HANA

SAP Interactive
Forms

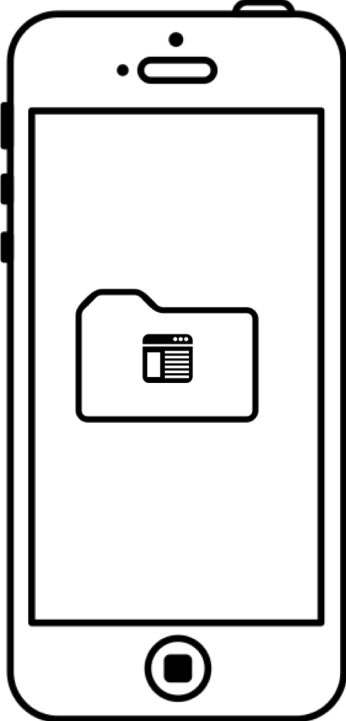




cordova-plugin-camera



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

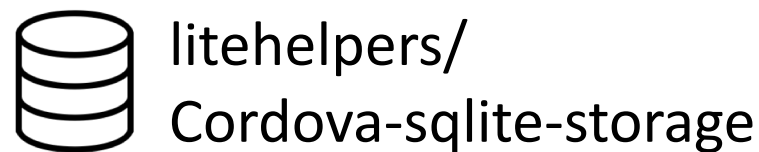
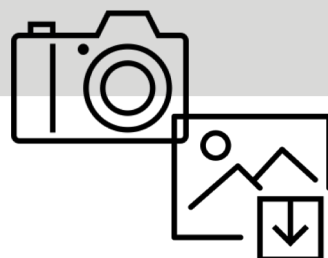
(!Blob -> Base64)

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"
};

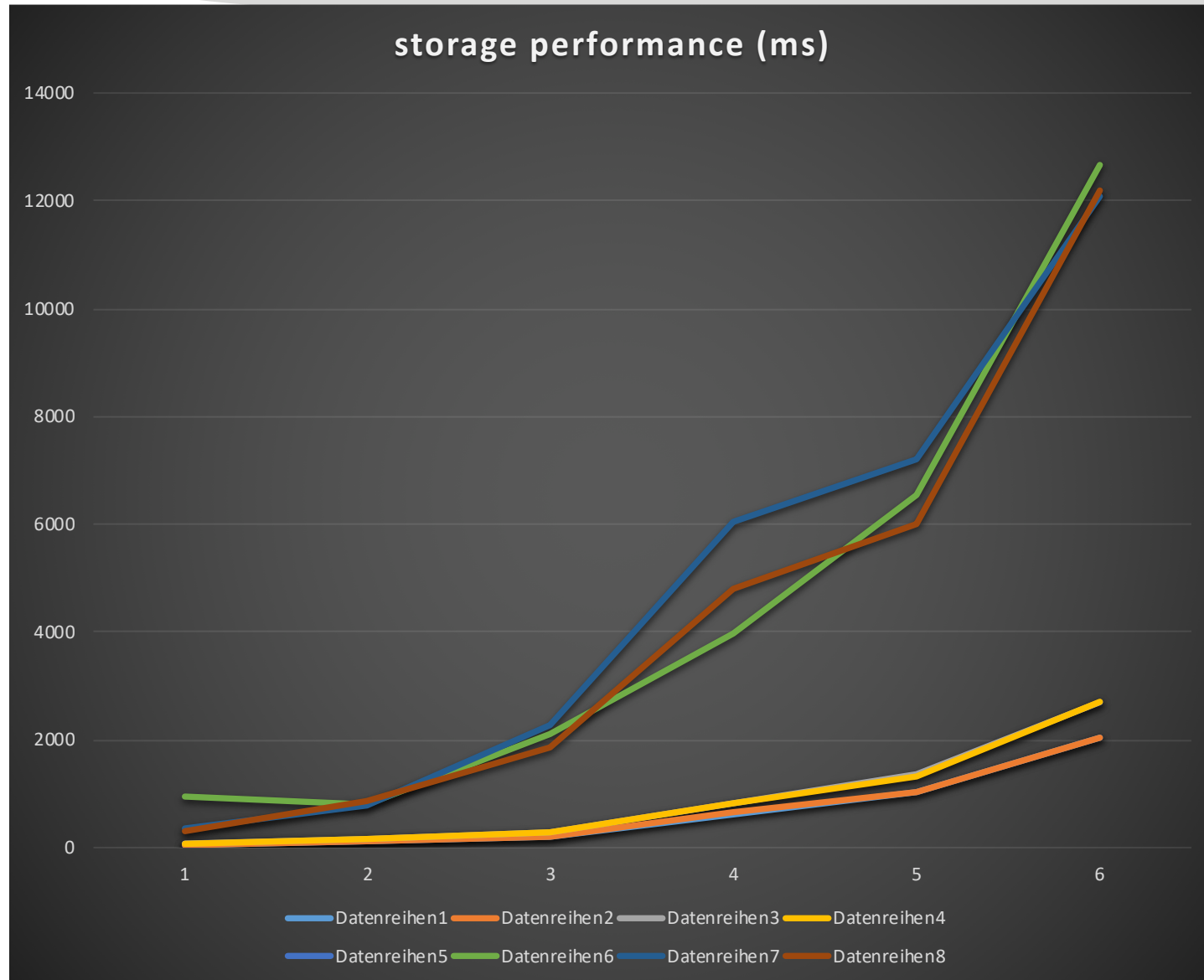
// store it, then retrieve and debug-log it
oDb.put(oDoc).then( function() {
  return oDb.get("dolphins");
}).then( function(oDoc) {
  jQuery.sap.log.debug(oDoc);
}).catch(function (oError) {
  // gnarf, error
  jQuery.sap.log.error(oError);
});
```



```
// cordova camera: take pic
navigator.camera.getPicture(successCb, errorCallback, 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");
});
```



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Icons by the Noun project,
specifically:

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

