What’s in the menu for this talk?

• Why connecting a mobile application to Tryton?
• How we built did it
• Which problems do we find?
• Our application demo
Why a mobile application?

- The company generates a lot of work orders.
- Each order is approved (signed in paper) by the customer.
- The paper is manually introduced to Tryton by an employee.
Current workflow

• The employee picks a paper from the office
• The customer signs the paper
• The employee brings the paper back to the office
• Another employee picks the paper and introduces the information to the system
Current situation: Results

• A lot of paper to be stored
• A lot of work entering the information on the system
• Delay to have the updated information (and thus generate the work invoices)
• Human errors
With a mobile application

- The employee have their work order on the mobile application
- The customer signs directly on the application
- The information is introduced automatically on the system.
- The invoices are generated faster
How we built it?

Hybrid vs Native

- HTML
- CSS
- JavaScript
- App Development
- Android
- iOS
- Windows
How we built it?

https://cordova.apache.org/
How we built it?

https://onsen.io/  https://vuejs.org/
Onsen UI

- Binding for Vue.js
- Generic components
- Android & iOS

Try it with your phone on:

https://onsen.io/demo/
How we communicate to Tryton?

- User application
- Dedicated routes for reading and sending data
- GET and POST using vue-resource
- werkzeug.contrib.cache.SimpleCache
- Store data on the mobile phone
- Application does not require connection to the server
Storing data on browser/mobile

LocalStorage:
- Synchronous API
- Good for low quantity of records

IndexedDB:
- Asynchronous API: Promises Everywhere!
- Allow to add indexes for searching
- Better performance with 1000+ records
Where did our headaches come from?

- Offline synchronization queue
- Exceptions on Server side
- Android notifications not received
Demo Time
¿Questions?

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