



**Building mobile applications connected to  
Tryton**

Tryton Unconference Marselle  
7<sup>th</sup> June 2019

# 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

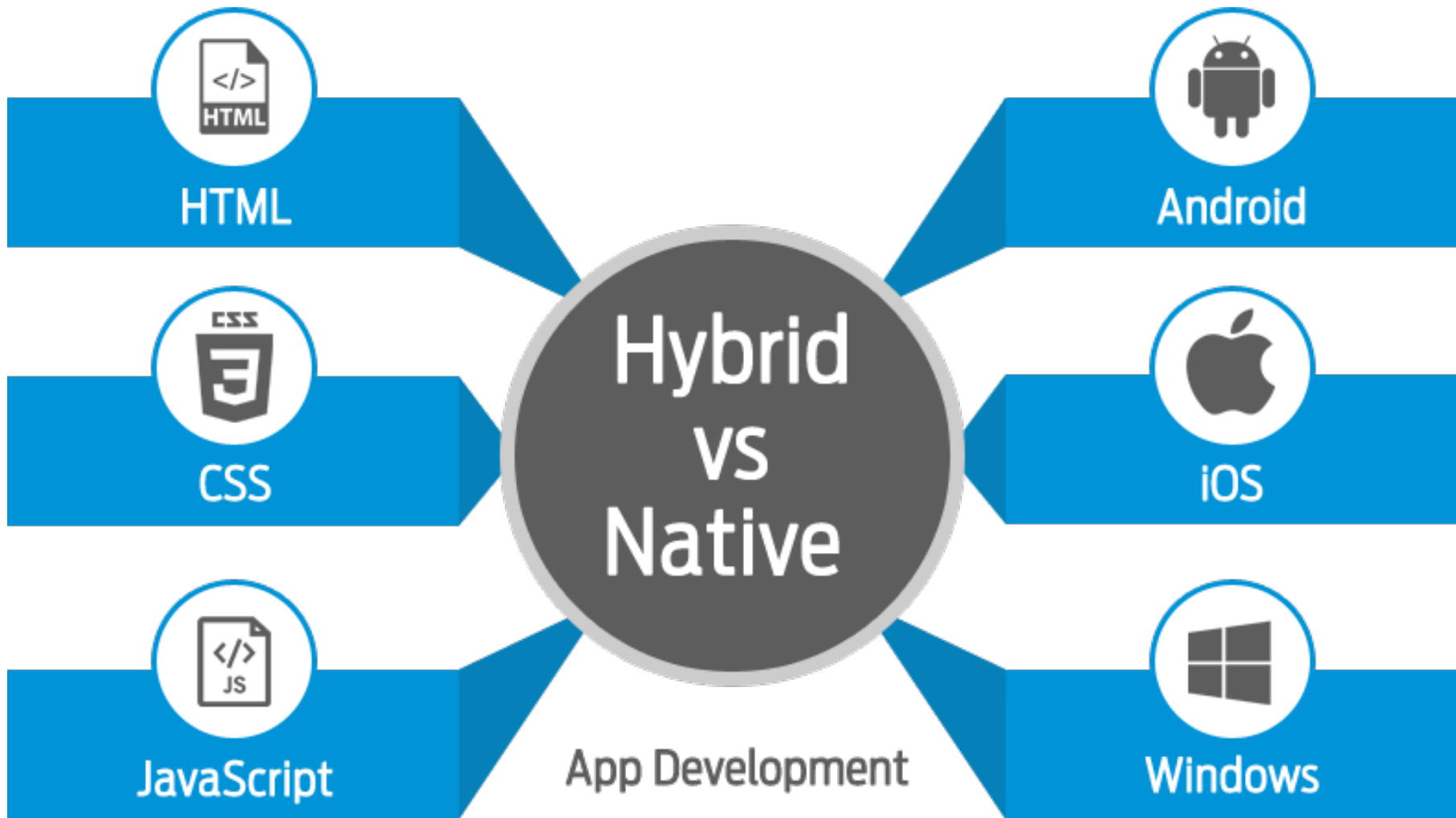
# Current situation: Results

- 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?



# How we built it?



<https://cordova.apache.org/>



# How we built it?



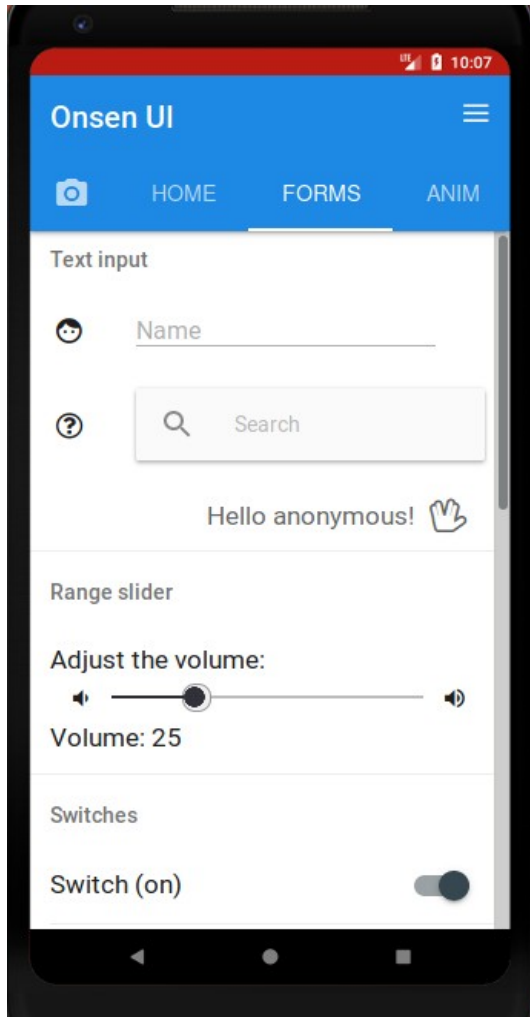
*Onsen UI*

<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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