# INTERMEDIATE PRESENTATION ON HOSPITAL PROJECT

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#### **DESCRIPTION**

#### Context:

An IVF lab with more than 5000 cycles per year which made them use a lot of culture media, consumables, etc. Nice logistics team made up of 4 persons that keep track what goes in and out. But all these are still performed on paper. Orders of consumables are made based on what goes in and out.

#### Objectives:

Facilitate the workflow for consumables and media that go in the laboratory; Creating an automated list of consumables that should come from the basement to the lab; Automated tracking in use and automated assignment of consumables that need to be ordered.

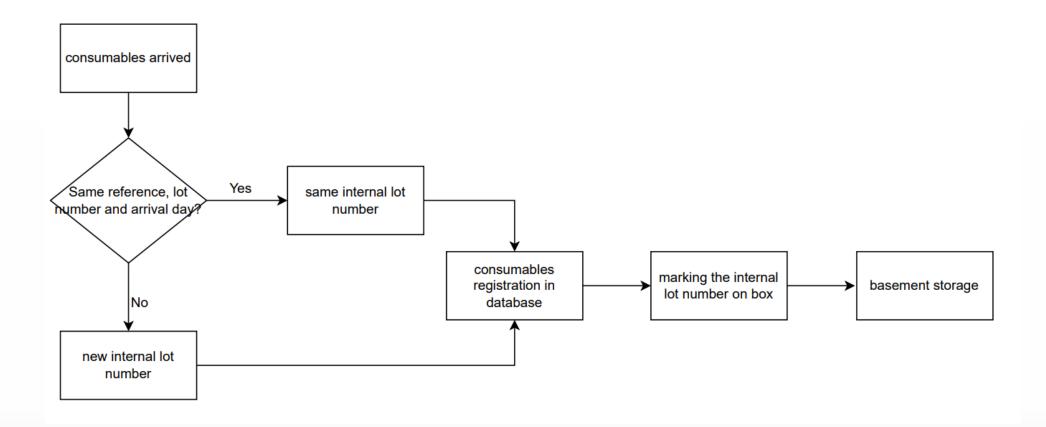
#### Deliverables:

Mapping the current situation; Propose a plan for optimalisation; Test a plan for optimalisation; If possible: apply a new structure/plan



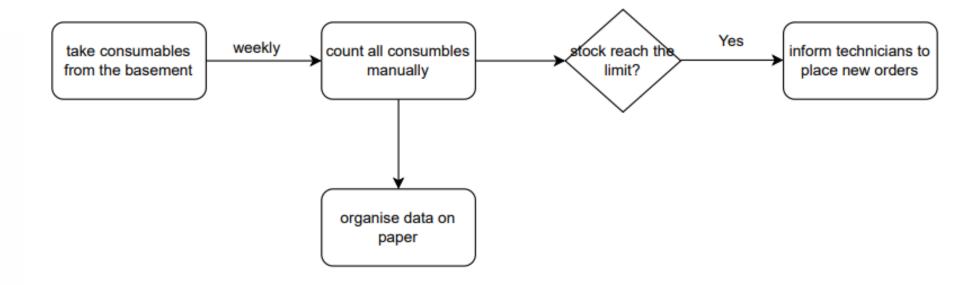
# ANALYSIS OF THE PROJECT

## **CURRENT WORKFLOW**



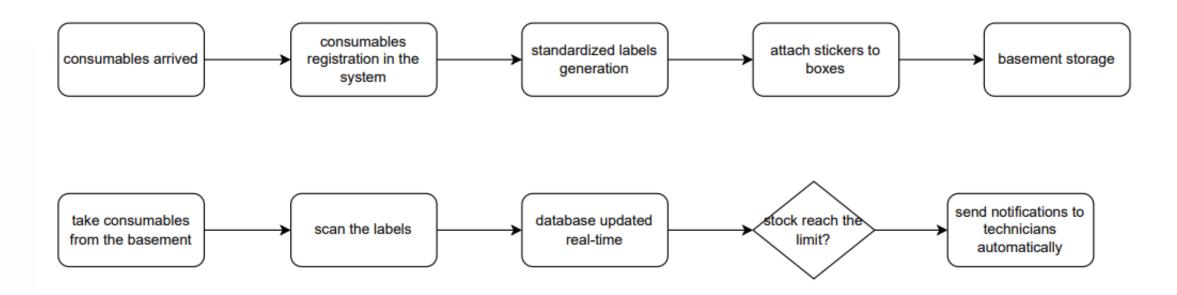


## **CURRENT WORKFLOW**





## EXPECTED WORKFLOW





#### INVENTORY MANAGEMENT SOFTWARE IN THE MARKET









Pros: mature, multifunctional

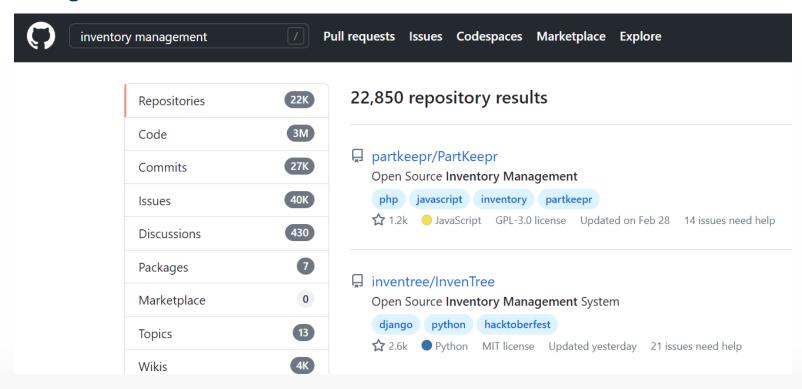
Cons: paid, not customized, unrequired functions, not user-friendly



# PROPOSAL OF APPROACH

#### PROPOSAL OF APPROACH

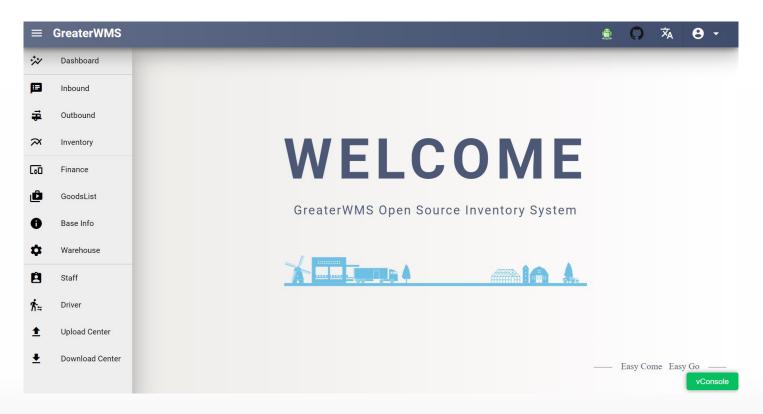
Search for an existing project (web application) on GitHub, modify the code according to needs





## PROPOSAL OF APPROACH

Examples: GreaterWMS

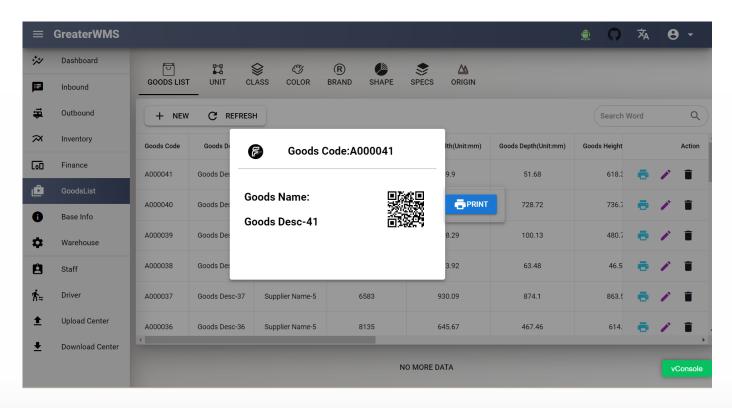


Back-end: Django, Node.js

Front-end: Vue.js

#### PROPOSAL OF APPROACH

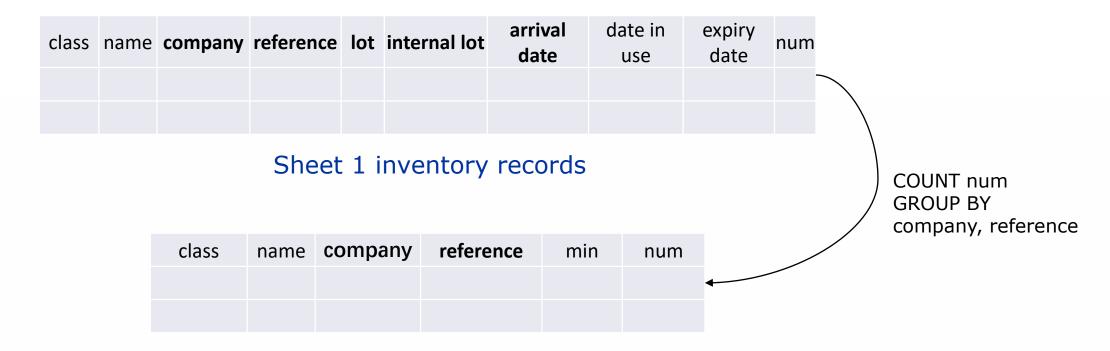
Examples: GreaterWMS



- Supplier Management
- Customer Management
- Scanner PDA √
- Cycle Count
- Order Management
- Stock Control √
- Safety Stock Show
- API Documents
- IOS APP Support
- Android APP Support
- Electron APP Support
- Auto Update
- i18n Support



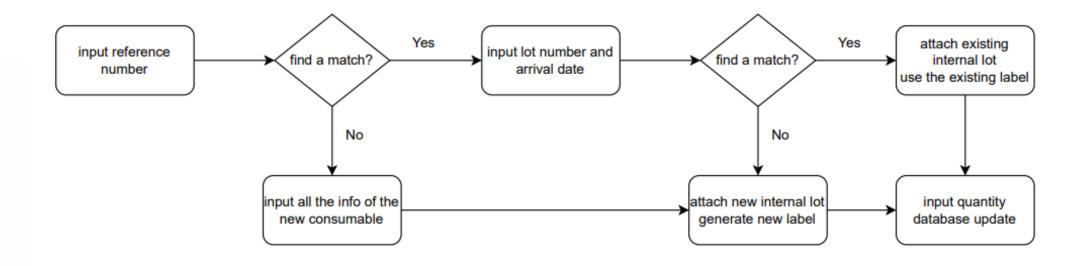
## DATABASE DESIGN



Sheet 2 goods list



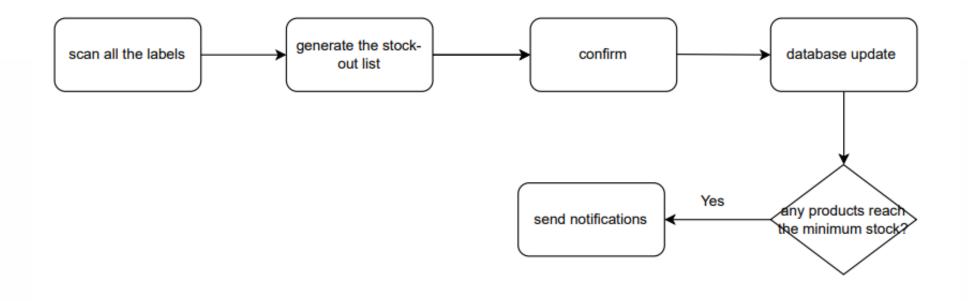
#### PROCESS OF STOCK-IN



Pros: take advantage of existing records, decrease the need of input all the product information manually every time.



## PROCESS OF STOCK-OUT





## PROS AND CONS

#### Pros:

- Highly customized
- Free

#### Cons:

- Complicated installment and launch through terminal

