

SEIDOR

AI Work Assistant

**Don't click,
tell me what you need!**

Create an order vs prepare the order

The challenge we are facing



PurchaseControl™
Boston Office
One Post Office Square, Suite 3600
Boston MA, 02109
USA

Purchase Order
PO No.: P000495
04/26/2017
PO Status Closed Completed

SUPPLIER	DELIVERY ADDRESS
Taylor Dickens 70 Bowman St. South Windsor, CT 06074 USA	Boston Office One Post Office Square, Suite 3600 Boston MA, 02109 USA
Terms: 30 Days Phone No.: 800-123-4567 Email: john@taylor Dickens.com	Phone No.: 800-504-3364 Attn: Patrick

DELIVERY DATE	REQUESTED BY	APPROVED BY	DEPARTMENT
04/28/2017	Patrick Smith	Patrick Smith	IT Department

NOTES

Description ABC

ITEM NAME	ITEM CODE	QTY.	ITEM PRICE	DISC.	TOTAL
Nescafe Gold Blend Coffee 7oz	QD2-00350	1.00	34.99	0.00	34.99
Tettley Tea Round Tea Bags 440/Pk	QD2-TET440	1.00	20.49	0.00	20.49
Niceday Economy Lever Arch File A4 Black	Q81-4857579	15.00	1.90	0.00	28.50
3 Tier Letter Tray	QD2-1523055	3.00	23.89	0.00	71.67
Viking A4 Economy Copier	QD2-9537	5.00	3.59	0.00	17.95
Economy Manilla Envelopes - 500	QD2-2071074	2.00	15.49	0.00	30.98
3 Tier Letter Tray	QD2-1523055	1.00	23.89	0.00	23.89

ORDER TOTAL

\$228.47

Prepare an order (picking) is like when you go to the supermarket and put on the cart all the products you write in the shopping list.

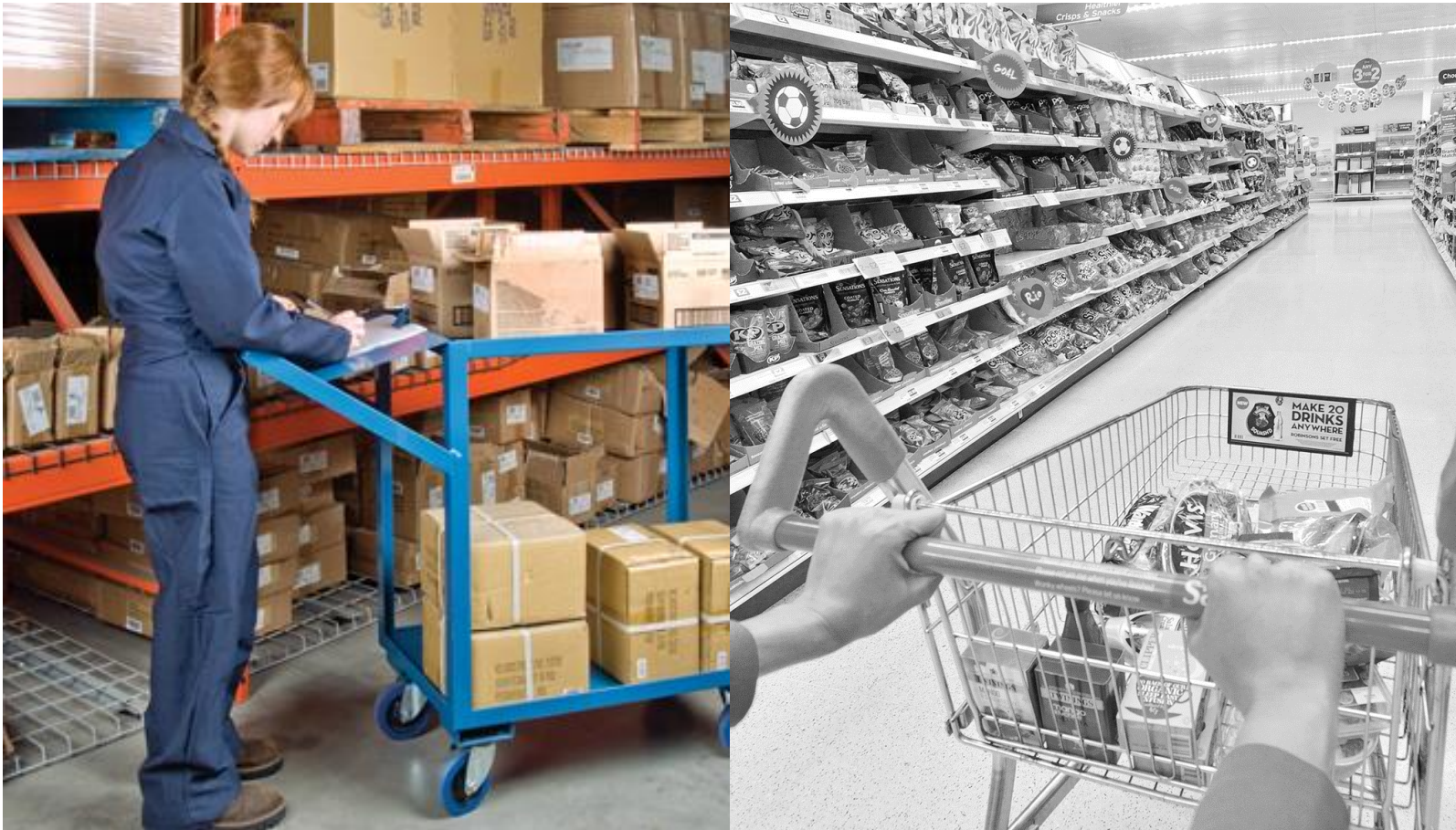


Tina



Tina

Create an order is like when you prepare the list for the supermarket, but in this case who prepares the list is a customer that wants to purchase something at your company.



Create an order vs prepare the order

The challenge we are facing



Help to find & collect things



AI conversational voice assistant



Create a list o things

When thousands of products are placed in a big warehouse, and nobody is guiding you is more difficult to find a product, than to find the beer shelf in the supermarket.

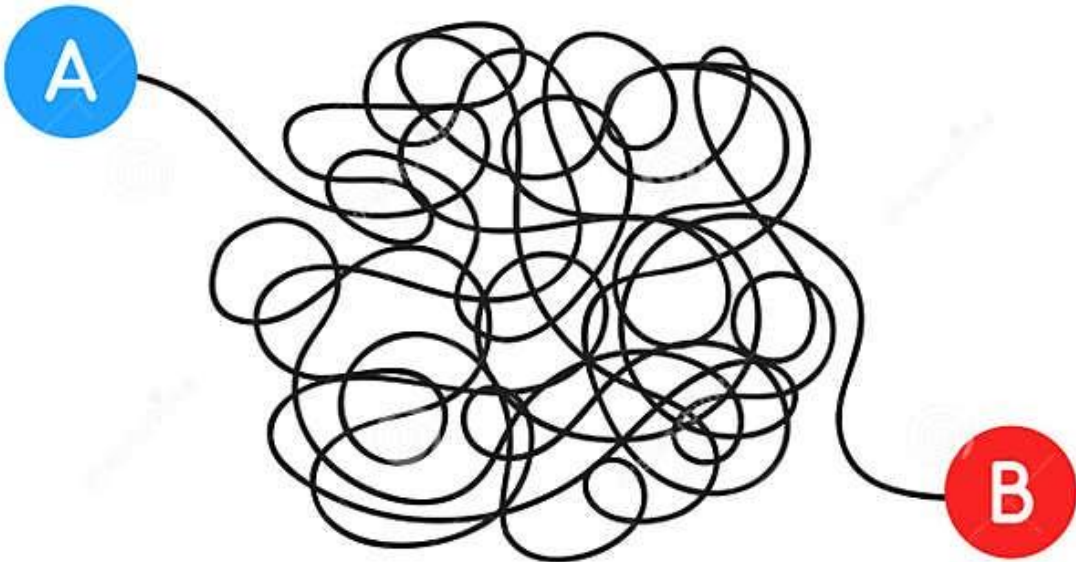


Tina



Tina

When your list is short (like the 20 products of the supermarket list) it's easy, but when the list of products have thousands of them its crazy to find the correct one in the system.



What can we do for Tina?

Artificial Intelligence

IoT devices

Voice Recognition

Conversational system

What AI Can Do for Tina,

Before her manager fires her for no reason?

System could tell me where I need to go to pick the products!

Voice operated assistant dictates the place where the products are in the correct sequence and the correct quantity.

Speak to the system and tell the order number to prepare.

System understand the number of the order and automatically locates the list of materials or products to prepare.



Tell me what's wrong with this material please!

If there is insufficient pieces in stock or if I found that there are no stock, the system might warn me about that, or I can inform it

Wait! The customer could do the same to prepare de order

Customers could use the same voice system to dictate the products in the order and the quantities

Please don't use the voice of my manager with the assistant!!!

Let's give better conversation skills to the system than the "limited" conversational capacity of my manager.

Challenge

Requirements & Development Tips

The challenge

Purchase orders and picking process assistant

- Create a conversational assistant that can **create a purchase order and/or** (list of products to buy) to manage the warehouse **picking process** (collect products).
- A **sample product name catalog** will be provided by SEIDOR to make easy the challenge and create same starting conditions for the teams.
- Solution can be implemented over **cell phone, tablet or computer.**
- There are 3 options for the challenge:
 - Only create the **purchase order assistant (list of products to buy)**
 - Only create the **picking process assistant (to collect products in warehouse)**
 - Create **both assistants** (for customers and for Tina)
- The main challenges are:
 - Find the proper algorithms solution to achieve a good comprehension of the product names, commands and quantities by the assistant.
 - Create a good conversational system to solve the main issues related with the order generation and/or the picking process to help customers and/or warehouse personnel.
 - Create a good activation process (wake-word or similar) to ensure the proper flow of the process.

Summary

Problem & Challenge

Challenge summary

AI powered Voice Assistant for warehouse

This challenge wants to make easy the job for the people that must create purchasing orders (list of materials and quantities), and the people that must prepare the products listed on those lists and put together to send the customer.

Current AI resources that can understand natural language, and are capable to synthesize voice and meaningful answers, could be a powerful tool for those people to make easy their life.

Like yourself preparing the shopping list for the supermarket, and then moving around the aisles on the supermarket to find the products, this voice assistant can help a lot of people to make their jobs easier and more efficient.

Think on the process, and the issues that those people facing, how they can improve their work if an AI voice assistant could help to improve and provide tools thanks to the conversational capabilities to solve issues during the process, like products misplaced, wrong quantities, or incorrect references, all by normal speaking!!

We will provide a sample list of products to have a common starting point for everyone, and our support to help you on any question.

Have a good UPC Hack!!!

SEIDOR