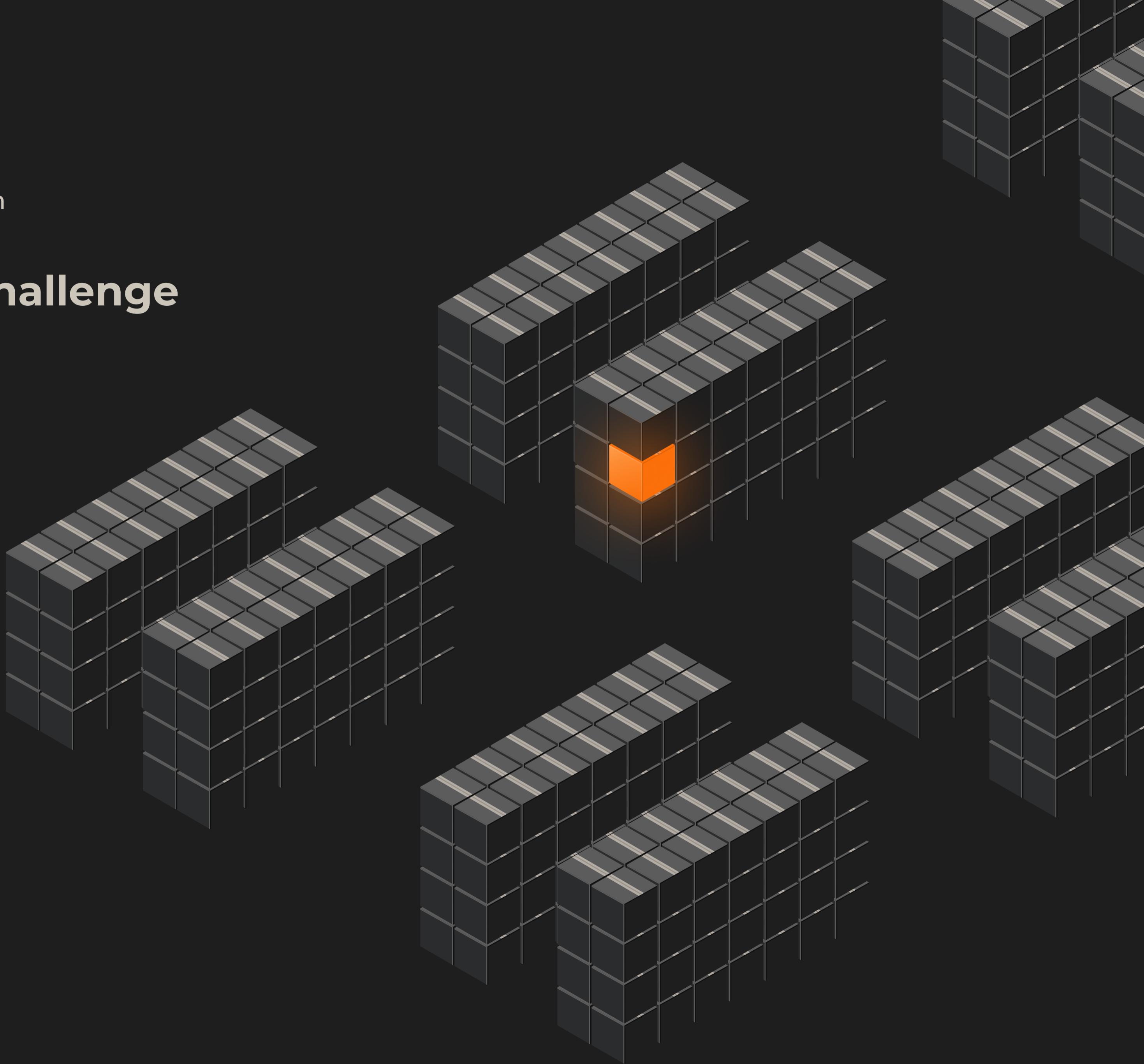




Jury
Alyavdin

Design Challenge

for
PEPSICO



01

The key goal

A concept of a responsive product that helps users achieve their goals during the supply chain management process.

Overview

Supply chain

Supply chain management is the handling of the entire production flow of a good or service — starting from the raw components all the way to delivering the final product to the consumer.



Overview

Supply chain management flow

 Raw materials

 Supplier

 Manufacturing

 Distribution

 Retailer

 Customer

 Recycling

Overview

Supply chain management flow

 Raw materials

 Supplier

 Manufacturing

 Distribution

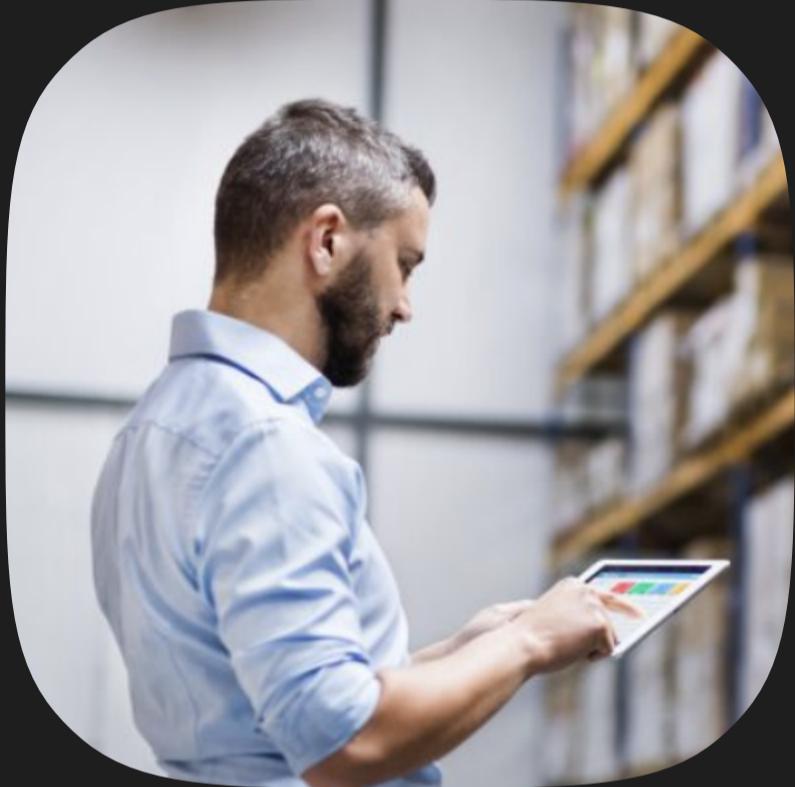
 Retailer

 Customer

 Recycling

Audience

Distributors



Warehouse manager

- Easily organise products that need to be shipped
- Plan the distribution and delivery of the finished goods

Platform: Desktop



Delivery manager

- Get live information on the status of an order & keep track of the products that are “on the move”
- Monitor the delivery process and get notified of any unpredicted event like challenging weather conditions, traffic jams, car accidents, etc.

Platform: Desktop

Audience

Retailers



Retail network manager

- Accept delivery on time in the grocery store's warehouse
- Sort goods by chain stores

Platform: Desktop

Audience

Warehouse employee



Warehouse worker

- Get information about items to collect
- Get information about the location of each item in the warehouse

Platform: Tablet, Mobile



Driver / Carrier

- Receive goods for shipment
- Get an optimized route
- Confirm receipt of delivery

Platform: Mobile

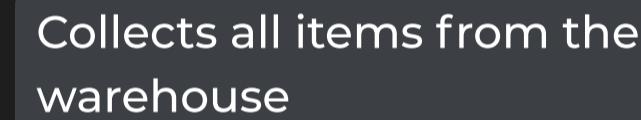
Process

Delivery flow

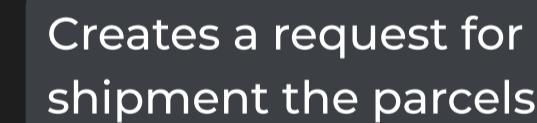
Warehouse manager



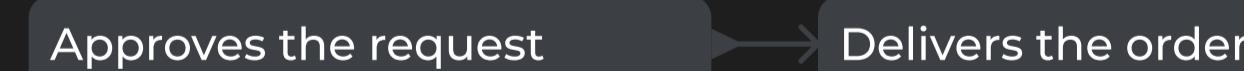
Warehouse worker



Delivery manager



Driver / Carrier



Retail network manager



Metrics

How to measure success

Effective supply chain management systems **minimize cost, waste, and time in the production cycle**

Cross metrics



Average delivery time from the warehouse to the retailer



On-time shipment and delivery rate



Number of successful deliveries

Competitor analysis

Supply chain management solutions



REQUESTS REPORTS appian

Request ID #1684 | CT-Policy Acceptance-Auto

Summary History Documents Notes Project Plan Envelopes

Milestones	Change Request Definition	Prioritization Status
Ideation	Location Type: Single State	Prioritized
Evaluation	State: CT	
Waiting	Description: Policy Acceptance language needs an update	
Content Lead Review	Line of Business: Auto	
Approvals / Reviews	Change Reason: Regulation Change	
Coding	Regulation Effective Date: Nov 1, 2021	
Testing	Critical Path Dependency: No dependency	
Production	Functional Area: Auto	
Post-Production		
Complete		

Document Details

Does this change request relate to one or more existing documents or the creation of one or more new documents? Yes Existing

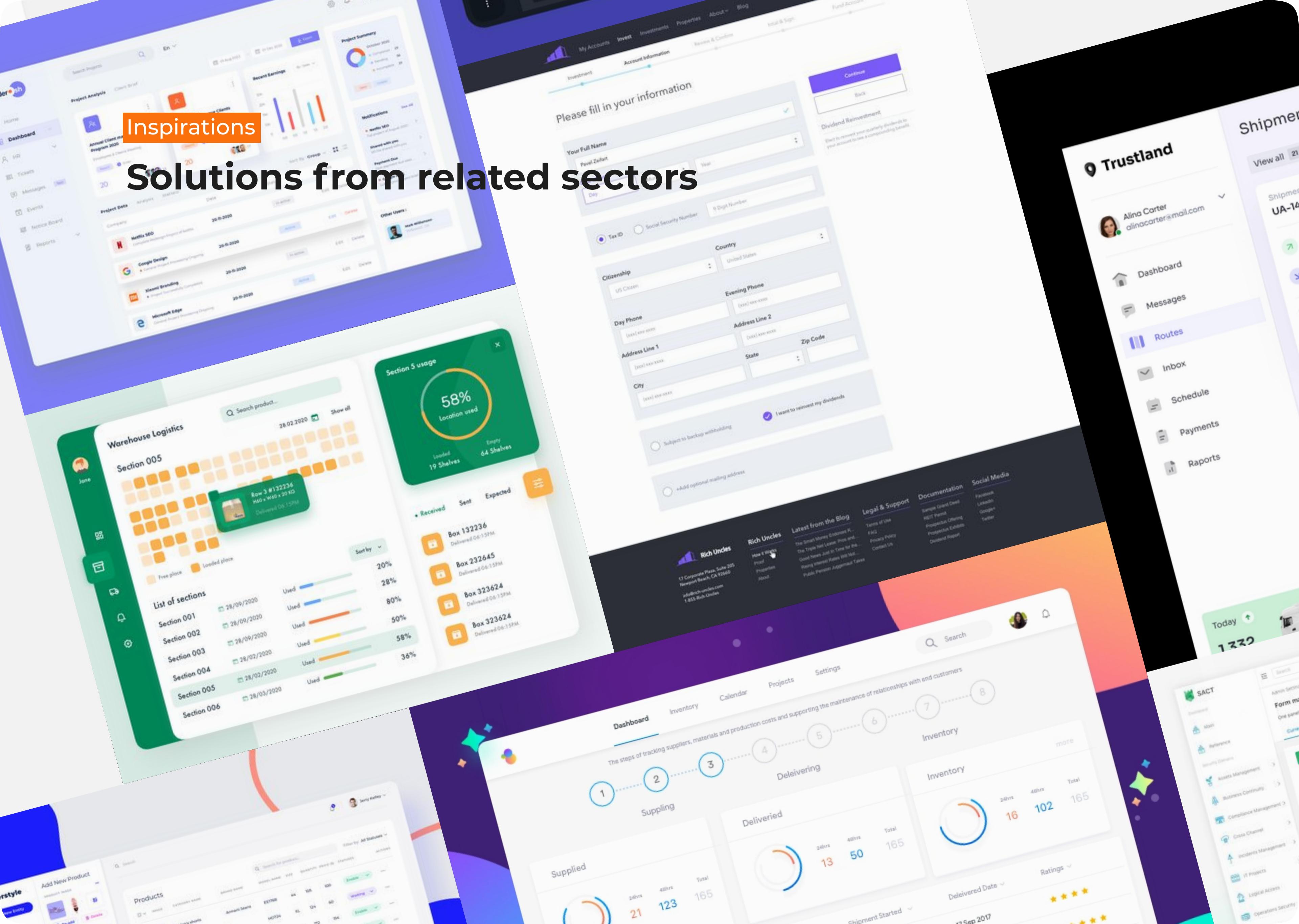
DID	Document Name	Version #	Revision Date	Existing Document?	Is Primary?
CT-21	Policy Acceptance	5	Jul 1, 2021	✓	✓
CT-22	Policy Acceptance Addendum	5	Jul 1, 2021	✓	○

Related Actions

- SEND TO APPROVALS
- REASSIGN CHANGE REQUEST
- UPDATE CHANGE REQUEST
- PAUSE REQUEST
- INVALIDATE CHANGE REQUEST
- UPDATE PROJECT PLAN
- ADD COMMENT
- ADD NOTE
- UPLOAD DOCUMENTS
- NEW ENVELOPE

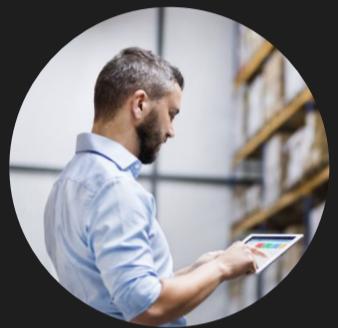
Inspirations

Solutions from related sectors



Solution

Warehouse manager



- As a warehouse manager, when I get a new request from a client, I want to easily organize products that need to be shipped, so I can process more orders and receive a bonus.
- As a warehouse manager, when I need to pass the work for the collection stage, I want to plan the distribution and delivery of the finished goods, so the warehouse worker will not come back to me with questions and waste my time.

Platform: Desktop



2567 ▲

Supplied



15 ▼

Orders in process



67 ▼

Orders delivered



49

Average

 Board view
 Table view

Requests 57

UA – 14493902 ✖
04/04/2022 10:28

We are running out of stock on some products. Could we pre-order a couple of items?
...

 Shawn Bennett

UA – 983459340

 Shirley Oliver

UA – 983459340

 Virgil Benson

UA – 983459340

 Jonathan Hawkins

UA – 983459340

Completing 2

 Matthew Rose

UA – 983459340

 Matthew Rose

UA – 983459340

 Matthew Rose

UA – 983459340

Order 1

 Doritos, 839403
4x400p

 Tropicana, 450945
4x400p

 Dew, 5843092
4x400p

 Lays, 450945
10x60p

16 more...

 Matthew Rose

NB – 983459340

 Matthew Rose

UA – 983459340

 Matthew Rose

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2567 ▲

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04/04/2022 17:07

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UA – 983459340
04/04/2022 09:09

Tropicana, 450945
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Quaker, 234908
50x12p

Matthew Rose

Order completed 2

UA – 14493902
04/04/2022 01:11

Doritos, 459280
20x60p
 Gilbert Russell

NB – 924582904
04/04/2022 05:53

Gatorade, 839403
4x400p
Tropicana, 450945
4x400p
Dew, 5843092
4x400p
 Gilbert Russell

In shipment 1

UA – 144939022
04/04/2022 01:11

Parcels: 6
Items: 50
Weight, kg: 82
 Jennie Robbins

In delivery 2

CA 7890 BT 67%

UA – 34587092
04/04/2022 22:53

Map showing delivery route

Harry Henry

UA – 95234504
04/04/2022 16:10

Map showing delivery route

Harry Henry

CA 4532 BT 0%

CA 5432 BT 0%

CA 2356 BT 0%

CA 2352 BT 0%

Delivered 1

UA – 14493902
04/04/2022 19:14

Acceptance certificate

Harry Henry



2567



15



67



49h



Orders delivered



Supplied

Orders in process

Orders delivered

Board view

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Order completed

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04/04/2022 01:11

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NB - 924582904

04/04/2022 05:53

- Gatorade, 839403
4x400p
- Tropicana, 450945
4x400p
- Dew, 5843092
4x400p

Gilbert Russell

Order number

Priority

Assign to

Status

UA - 14493902



Matthew Rose

Requests



Company

Mercadona

Manager

Shawn Bennett

Manager

Shirley Oliver

Hi Matthew,
Hope you are doing great!

We are running out of stock on some products.
Could we pre-order a couple of items?

We need 20 more Lays packs and 40 Dew till
the end of the week.

Shawn Bennett

04/04/2022 09:33

Hi Shawn,
Let me see what can I do with it

04/04/2022 09:33

Type a message



2567



15



Supplied



67



Orders in process



49h



Orders delivered



Supplied

Orders in process

Orders delivered

Average delivery time

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Dew, 5843092 4x400p
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16 more...
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UA – 983459340 04/04/2022 09:09
Tropicana, 450945 4x400p
Quaker, 234908 50x12p
 Matthew Rose

Order completed

2

UA – 14493902 04/04/2022 01:11
Doritos, 459280 20x60p
Lays, 450945 10x60p
 Gilbert Russell

NB – 924582904 04/04/2022 05:53
Gatorade, 839403 4x400p
Tropicana, 450945 4x400p
Dew, 5843092 4x400p
 Gilbert Russell

In shipment

1

UA – 144939022 04/04/2022 01:11
Parcels 6
Items 50
Weight, kg 82
 Jennie Robbins

In delivery

2

CA 7890 BT 67%
UA – 34587092 04/04/2022 22:53

 Harry Henry

UA – 95234504 04/04/2022 16:10

 Harry Henry

CA 4532 BT 0%

CA 5432 BT 0%

CA 2356 BT 0%

CA 2352 BT 0%

Delivered

1

UA – 14493902 04/04/2022 19:14
 Acceptance certificate
 Harry Henry



2567

15

Supplied



Orders in process



67

Orders delivered



49h

Average delivery time



Board view

Table view

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UA - 983459340

04/04/2022 22:10

Good afternoon, I want to make a large order in a new network of opening stores. How is it possible to apply?

Jonathan Hawkins

UA - 983459340

04/04/2022 17:07

Could you resend the previous batch again?

49h

Average delivery time

Order number

Priority

Assign to

Status

UA - 983459340



Matthew Rose

Completing

Order 20

Search for item referral number

Global brands, Beverages

All warehouses

Name	Referral number	Amount	Availability	
Tropicana	450945	43556	<div style="width: 100%;"><div style="width: 100%;"> </div></div>	
Lays	234523	543	<div style="width: 10%;"> </div>	
Dew	654342	6547	<div style="width: 100%;"> </div>	
Getarade	456434	356	<div style="width: 10%;"> </div>	
Lipton	734527	654	<div style="width: 10%;"> </div>	
Starbucks	234535	234	<div style="width: 10%;"> </div>	
Brisk	234565	3466	<div style="width: 10%;"> </div>	
Tostitos	654342	6547	<div style="width: 100%;"> </div>	
Fritos	456434	356	<div style="width: 10%;"> </div>	
Diet Pepsi	734527	654	<div style="width: 10%;"> </div>	
Mirinda	234535	234	<div style="width: 10%;"> </div>	
Walkers	456434	356	<div style="width: 10%;"> </div>	
Pepsi Black	734527	654	<div style="width: 10%;"> </div>	

Solution

Warehouse worker



- As a warehouse worker, when I get information about items to collect, I want to also get information about the location of each item in the warehouse, so don't waste my time and reduce the chance to take the wrong box.

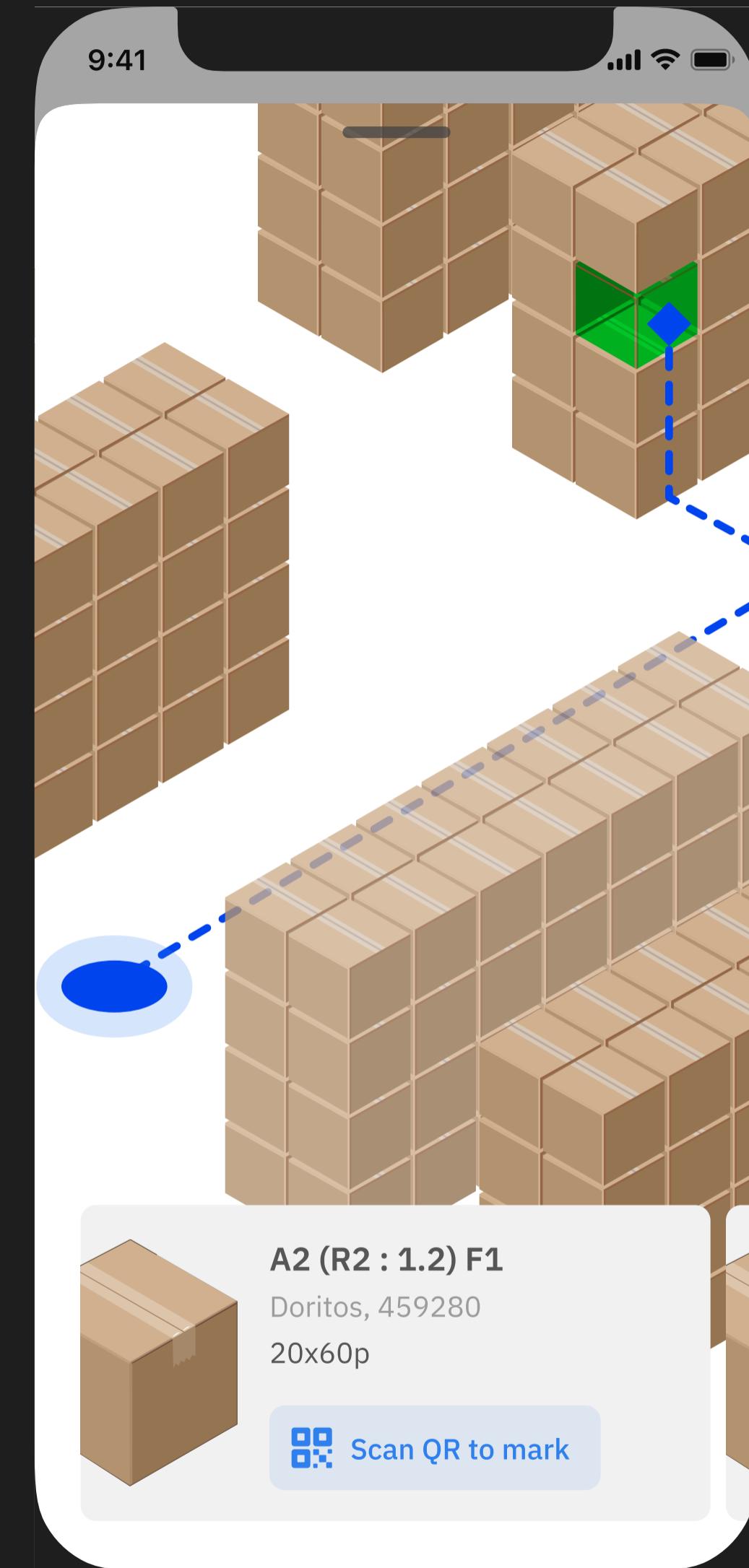
Platform: Tablet, Mobile

Solution

Warehouse worker



- As a warehouse worker, when I get information about items to collect, I want to also get information about the location of each item in the warehouse, so don't waste my time and reduce the chance to take the wrong box.



Platform: Tablet, Mobile

Solution

Delivery manager



- As a Delivery Manager, when I am managing the shipping of the order, I want to get live information on the status of orders & keep track of the products that are “on the move”, so I can react immediately if something is not going according to the plan.
- Monitor the delivery process and get notified of any unpredicted event like challenging weather conditions, traffic jams, car accidents, etc.

Platform: Desktop


2567
Supplied


15
Orders in process


67
Orders delivered




Requests	Completing	Order
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UA – 983459340 04/04/2022 23:52 Could you resend the previous batch again?	Shirley Oliver	NB – 9 04/04/2022 Gatorade Tropicana Dew Lays G
UA – 983459340 04/04/2022 19:56 There was an error in the previous order. We ordered 200 packs of chips and only got 100.	Virgil Benson	UA – 1 04/04/2022 Tropicana, 450945 4x400p Quaker, 234908 50x12p Matthew Rose
UA – 983459340 04/04/2022 22:10 Good afternoon, I want to make a large order in a new network of opening stores. How is it possible to apply?	Jonathan Hawkins	UA – 1 04/04/2022 Tropicana, 450945 4x400p Quaker, 234908 50x12p Matthew Rose
UA – 983459340 04/04/2022 17:07 Could you resend the previous batch again?		

2567 ↑

Supplied

15 ↓

Orders in process

67 ↓

Orders delivered

49h ↑

Average delivery time



Board view

Table view

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Completing 2

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UA – 983459340

04/04/2022 09:09

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Matthew Rose

Order completed 2

UA – 14493902

04/04/2022 01:11

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Gilbert Russell

NB – 924582904

04/04/2022 05:53

- Gatorade, 839403 4x400p ✓
- Tropicana, 450945 4x400p ✓
- Dew, 5843092 4x400p ✓

Gilbert Russell

In shipment 1

UA – 144939022

04/04/2022 01:11

Parcels	6
Items	50
Weight, kg	82

Jennie Robbins

In delivery 2

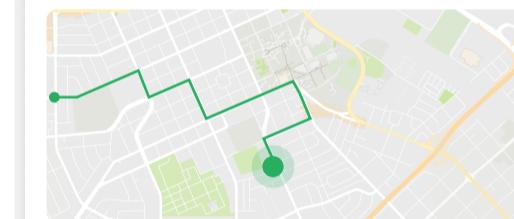
CA 7890 BT



67%

UA – 34587092

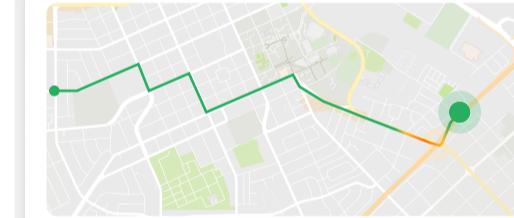
04/04/2022 22:53



Harry Henry

UA – 95234504

04/04/2022 16:10



Harry Henry

CA 4532 BT



0%

CA 5432 BT



0%

CA 2356 BT



0%

CA 2352 BT

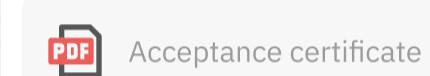


0%

Delivered 1

UA – 14493902

04/04/2022 19:14



Harry Henry



2567



15



Orders in process



67



Orders delivered



49h



Average delivery time



Supplied

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Matthew Rose

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Order completed

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4x400p
- Dew, 5843092
4x400p

Gilbert Russell

In ship

UA - 14493902

04/04/2022 01:11

- Parcels
 - Items
 - Weight
- Jennie Robbins

NB - 924582904

04/04/2022 05:53

CA

92408

City

San Bernardino

Estimated delivery date

07/04/2022

Address

2125 W San Bernardino Ave

Address line 2

Comment

Type a comment for a driver

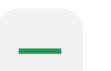
Order number

Priority

Assign to

Status

UA - 144939022



Jennie Robbins

In shipment

Parcels

Number	Items	Weight, kg	W/H/L	Fragile
1	6	9	35x20x25	Yes
2	18	4	35x20x25	-
3	15	41	35x20x25	-
4	4	41	35x20x25	-
5	5	8	35x20x25	-
6	2	12	35x20x25	-

Address

State / Region

Zip

CA

92408

City

San Bernardino

Estimated delivery date

07/04/2022

Address

2125 W San Bernardino Ave

Address line 2

Comment

Type a comment for a driver

Contact information

Recipient

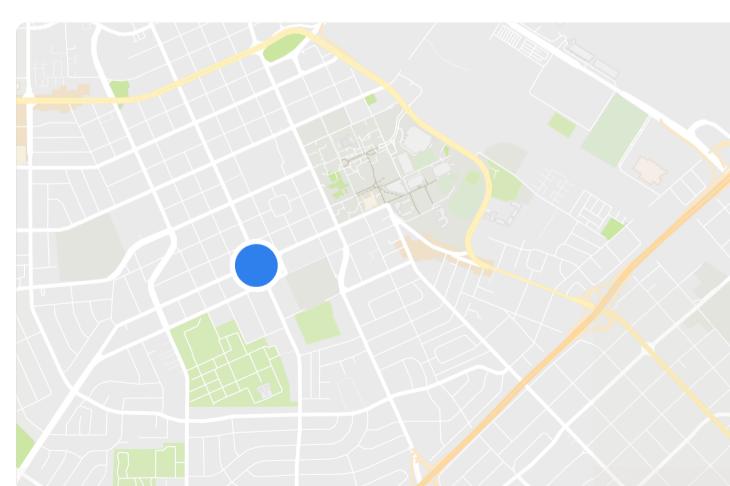
Andreo Riza

Email

andreo@gmail.com

Phone number

+1 64883204



2567 ▲

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Average delivery time

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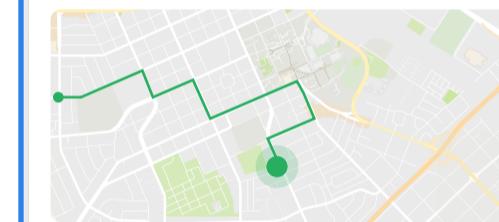
CA 7890 BT



67%

UA – 34587092

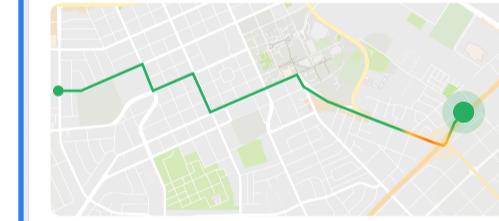
04/04/2022 22:53



Harry Henry

UA – 95234504

04/04/2022 16:10



Harry Henry

CA 4532 BT



0%

CA 5432 BT



0%

CA 2356 BT



0%

CA 2352 BT



0%

Delivered 1

UA – 14493902

04/04/2022 19:14

 Acceptance certificate

Harry Henry

2567 ↑

Supplied

15 ↓

Orders in process

67 ↓

Orders delivered

49h ↑

Average delivery time



Board view

Table view

Requests

57

UA – 14493902 ✖

04/04/2022 10:28

We are running out of stock on some products. Could we pre-order a couple of items?
...

Shawn Bennett

UA – 983459340

04/04/2022 23:52

Could you resend the previous batch again?

Shirley Oliver

UA – 983459340

04/04/2022 19:56

There was an error in the previous order. We ordered 200 packs of chips and only got 100.

Virgil Benson

UA – 983459340

04/04/2022 22:10

Good afternoon, I want to make a large order in a new network of opening stores. How is it possible to apply?

Jonathan Hawkins

UA – 983459340

04/04/2022 17:07

Could you resend the previous batch again?

Complecting

2

UA – 983459340

04/04/2022 19:10

Gatorade, 839403
4x400p
 Tropicana, 450945
4x400p
 Dew, 5843092
4x400p
 Lays, 450945
10x60p
16 more...

Matthew Rose

UA – 983459340

04/04/2022 09:09

Tropicana, 450945
4x400p
 Quaker, 234908
50x12p
Matthew Rose

Gilbert Russell

Order completed

2

UA – 14493902

04/04/2022 01:11

Doritos, 459280
20x60p
 Lays, 450945
10x60p

Gilbert Russell

NB – 924582904

04/04/2022 05:53

Gatorade, 839403
4x400p
 Tropicana, 450945
4x400p
 Dew, 5843092
4x400p

Gilbert Russell

In ship

UA – 14493902

04/04/2022 01:11

Parcels
Items
Weight

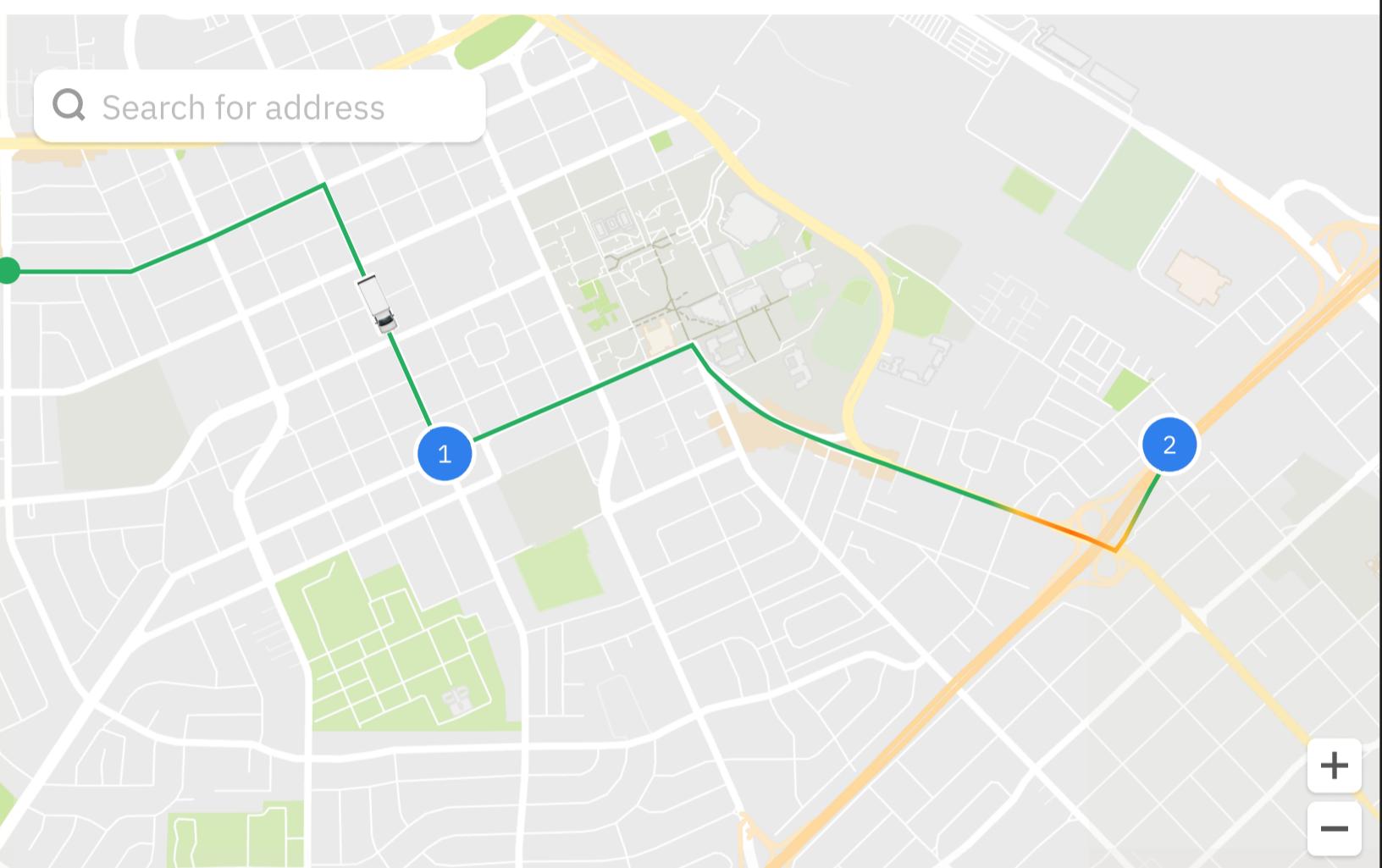
Jeffrey

NB – 924582904

04/04/2022 05:53

Gatorade, 839403
4x400p
Tropicana, 450945
4x400p
Dew, 5843092
4x400p

Jeffrey



Car number

Priority

Assign to

Status

CA 7890 BT



Harry Henry

In Delivery





Jury
Alyavdin

Thank you!

for
PEPSICO

