

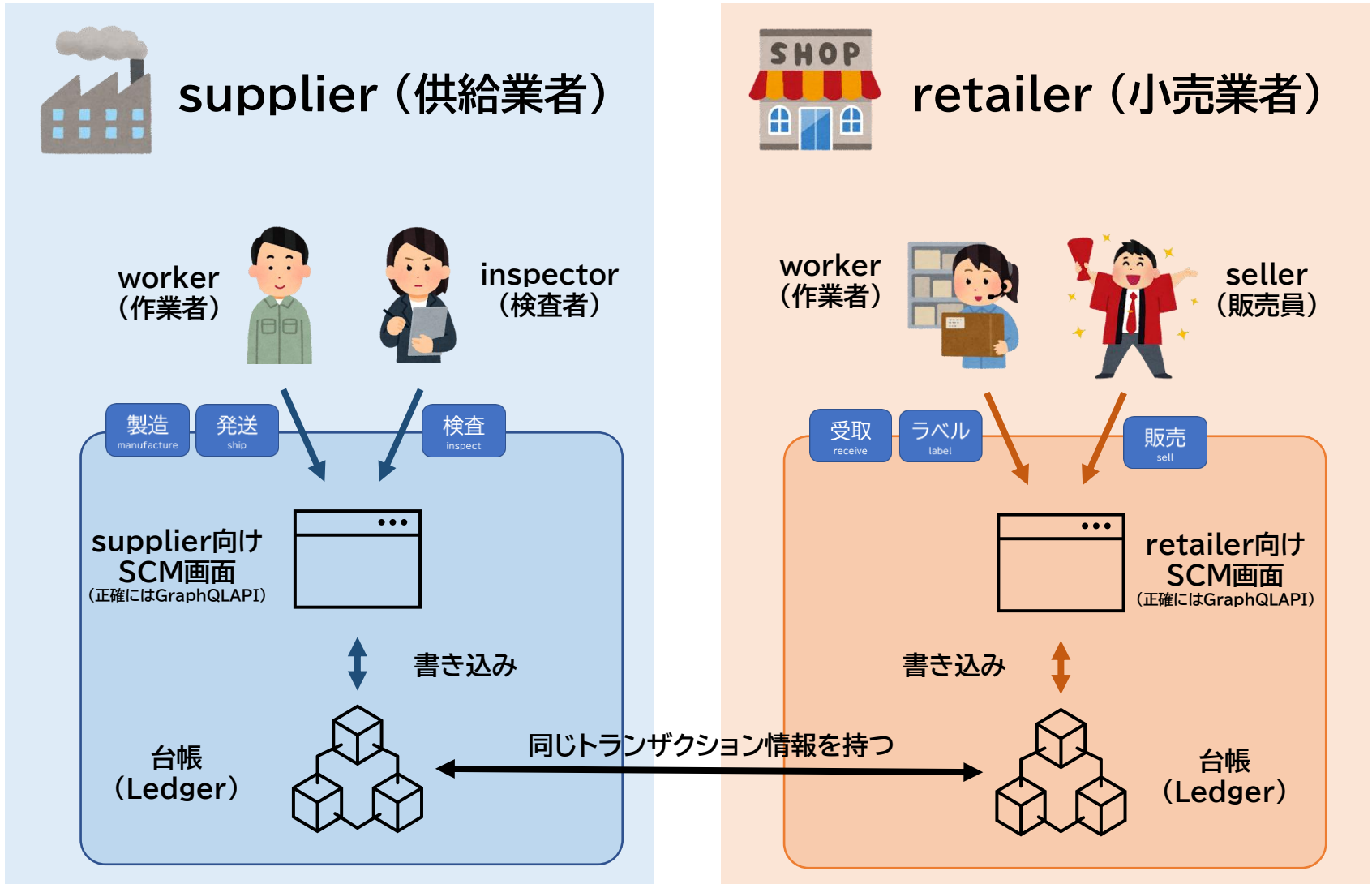
Supply Chain Manager
ハンズオンで作成する

ブロックチェーンアプリの説明
Supply Chain Manager

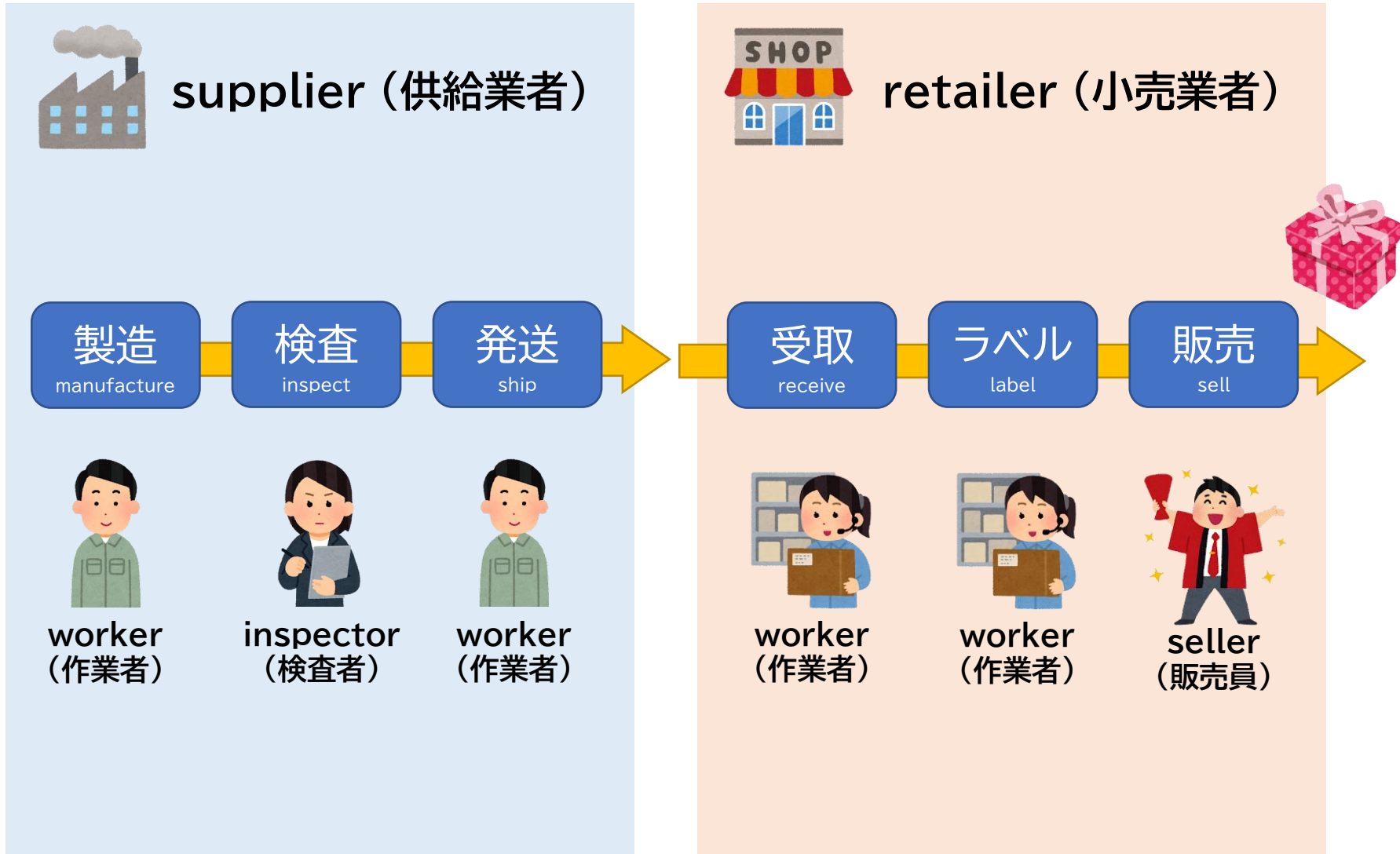
Sign in as rtworker

Sign in as rtseller

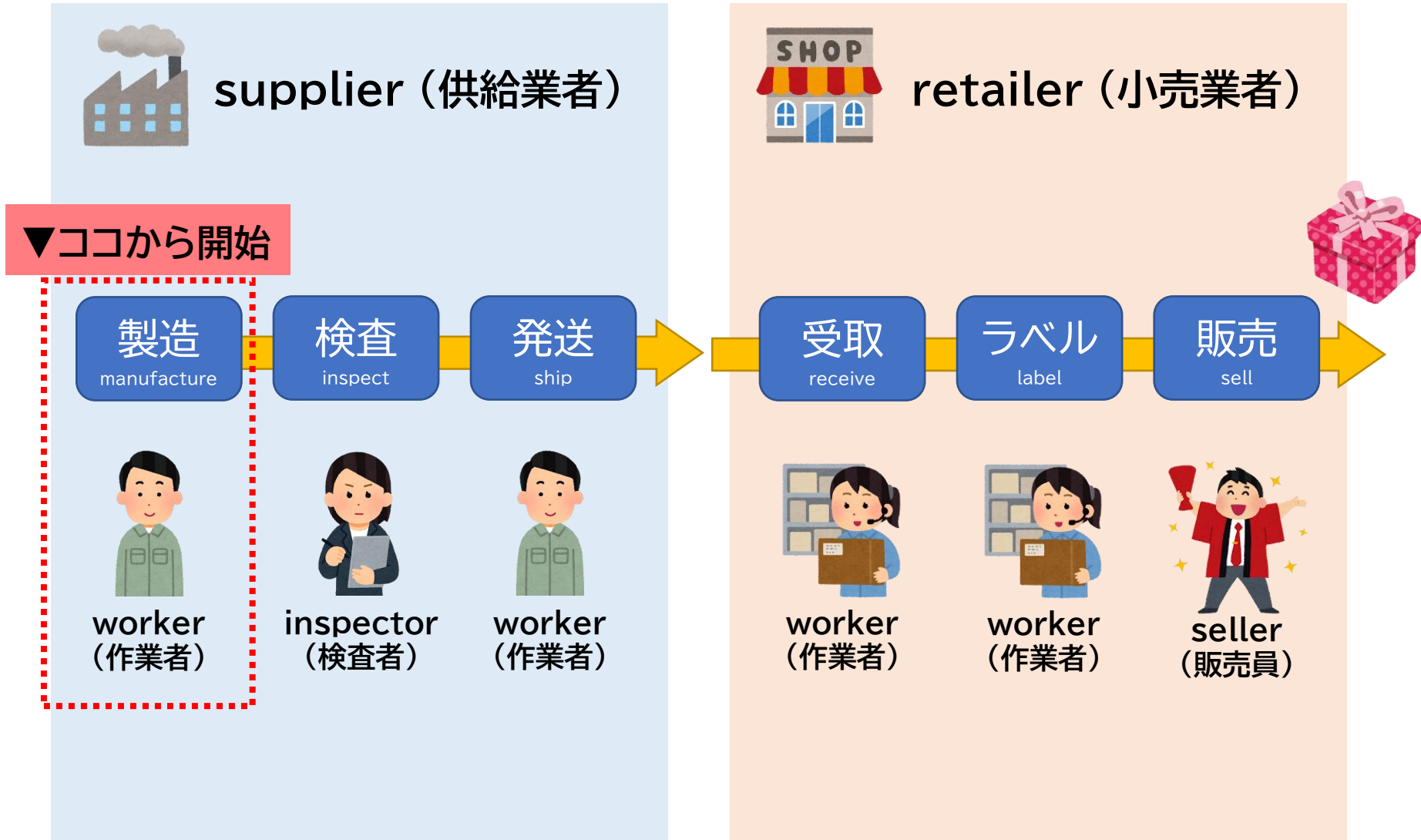
【前提】 このアプリは、Dapp (分散型アプリ)で、台帳が2箇所あります



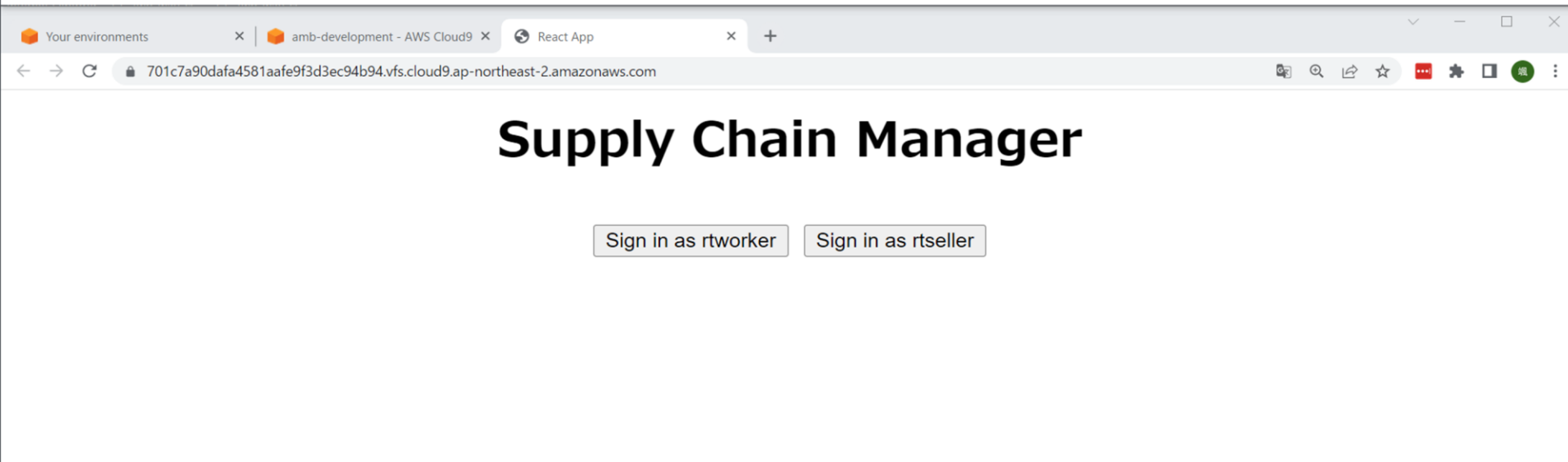
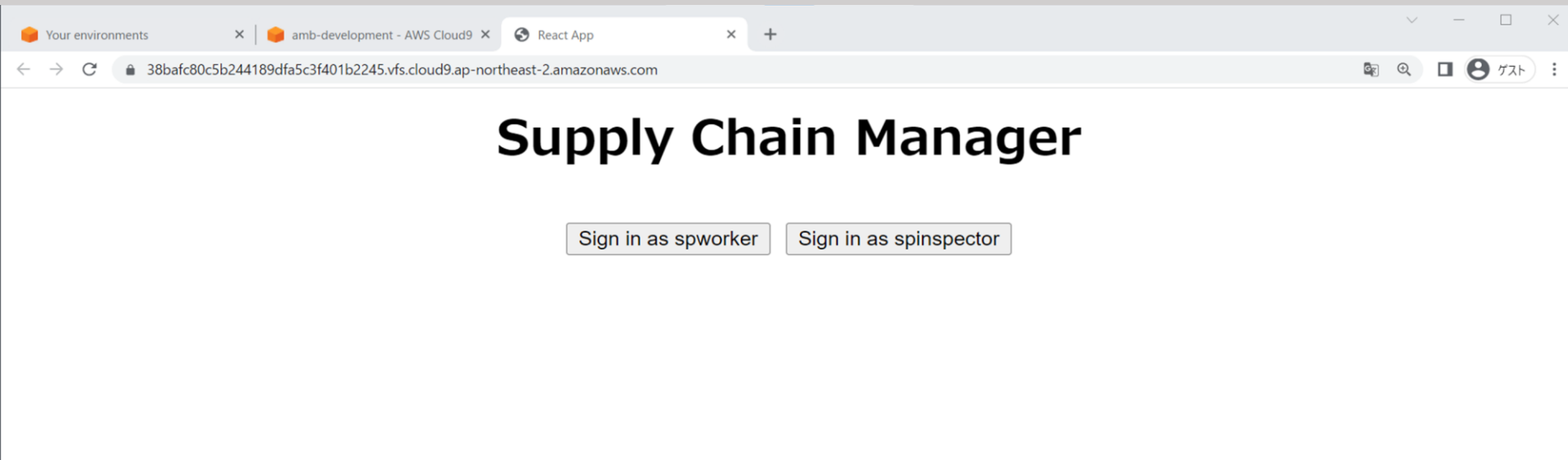
【前提】このアプリは SCM(サプライチェーンマネジメント)です



【動作解説】商品の流れと役割分担(SCMの権限保持状況)



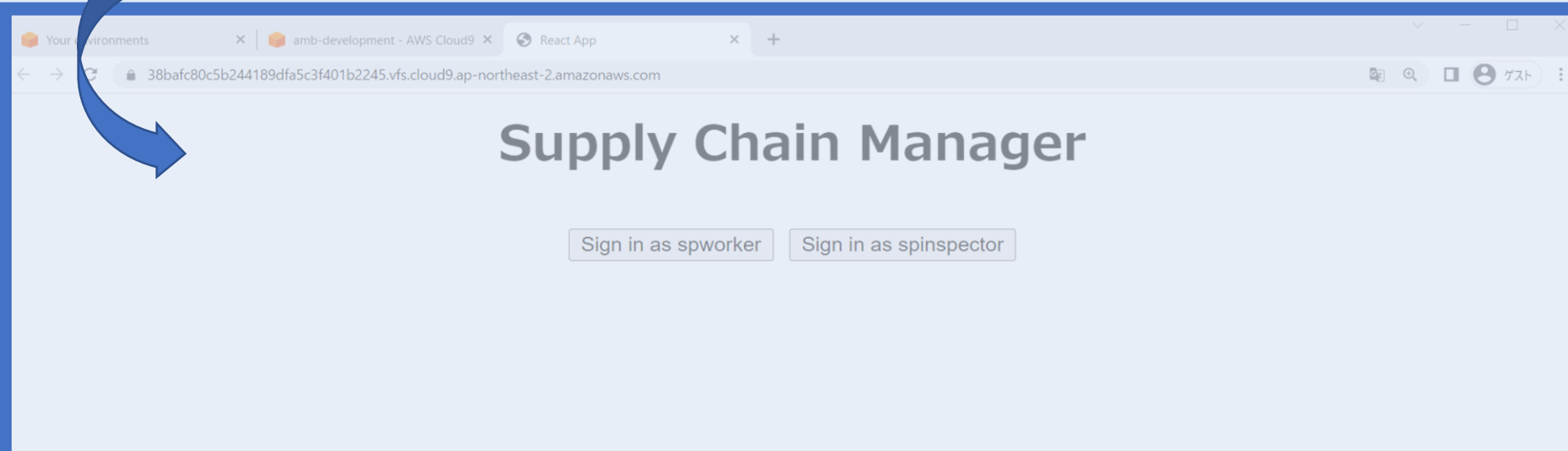
画面を上下に分けて説明します。



上画面



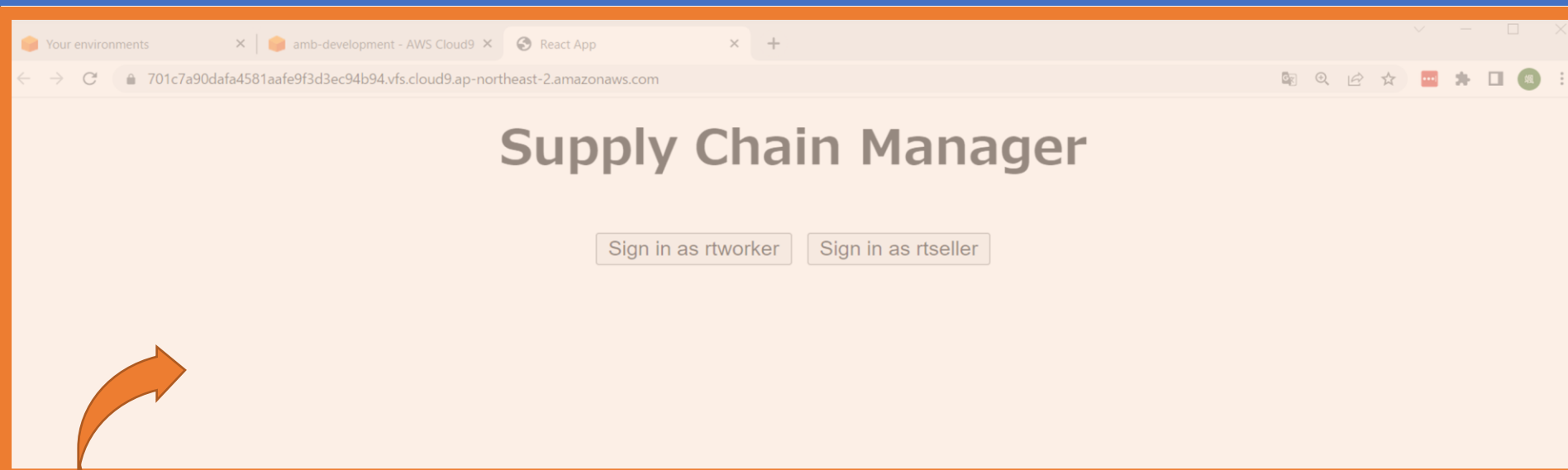
supplier (供給業者) が使う画面



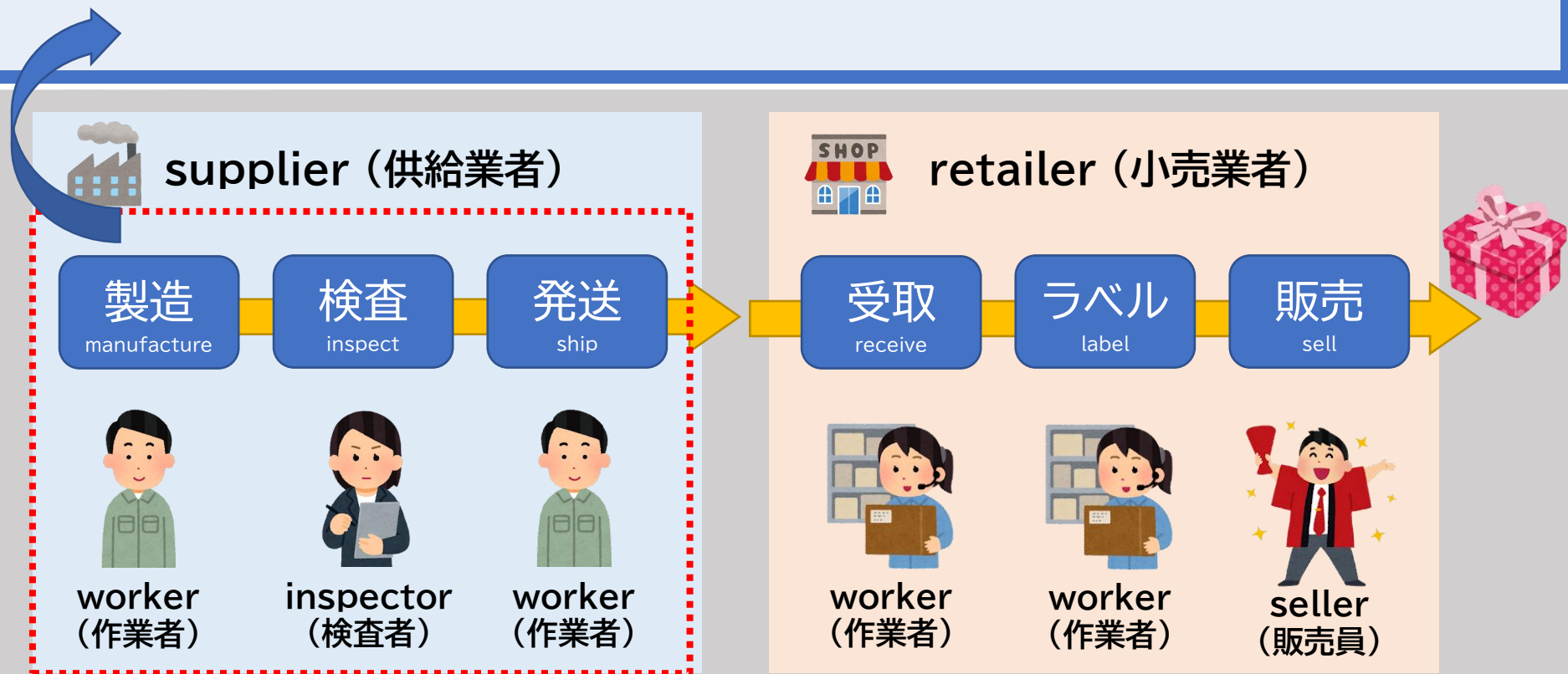
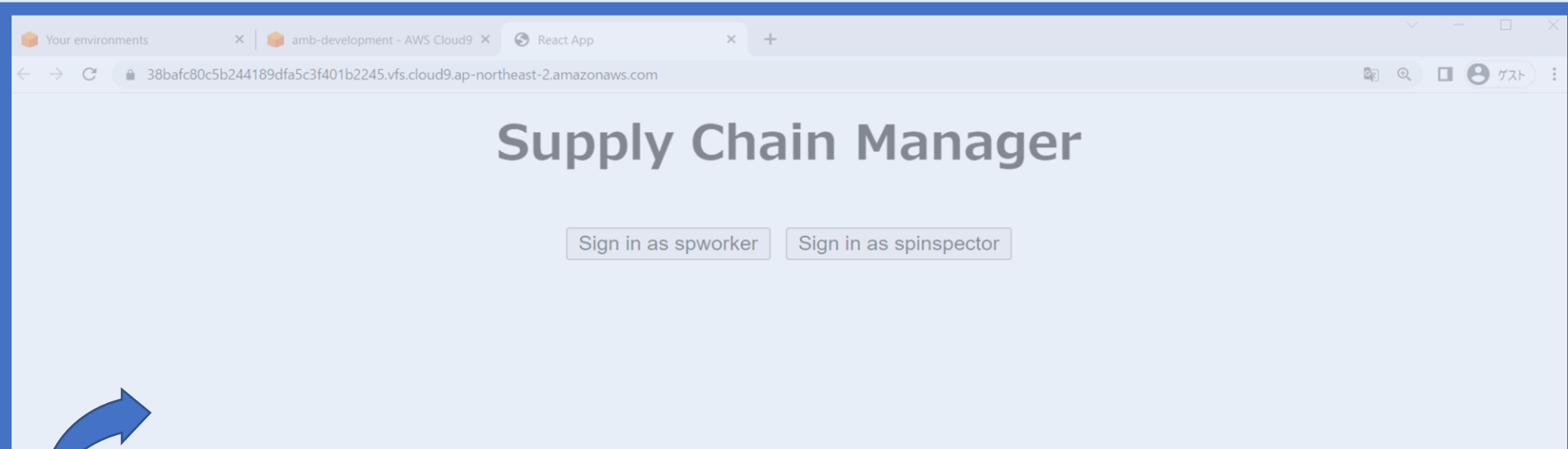
下画面



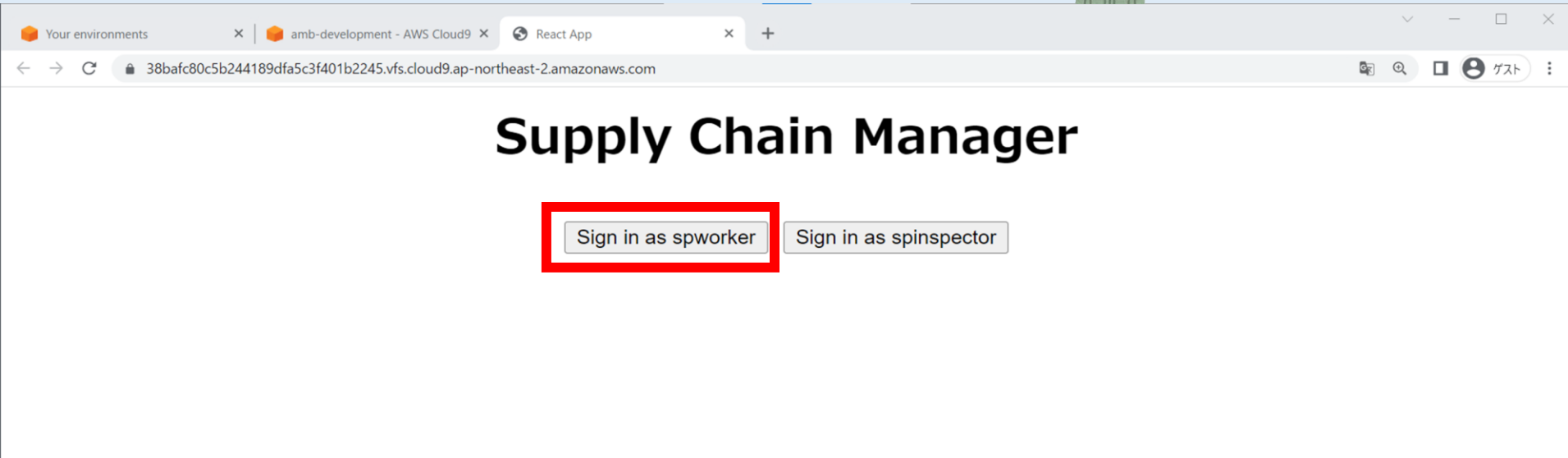
retailer (小売業者) が使う画面



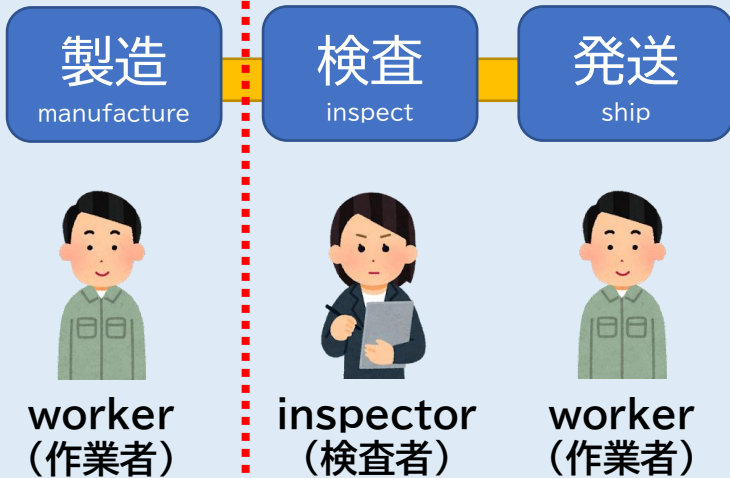
最初は、supplier (供給業者)  の作業のため、上画面を利用する



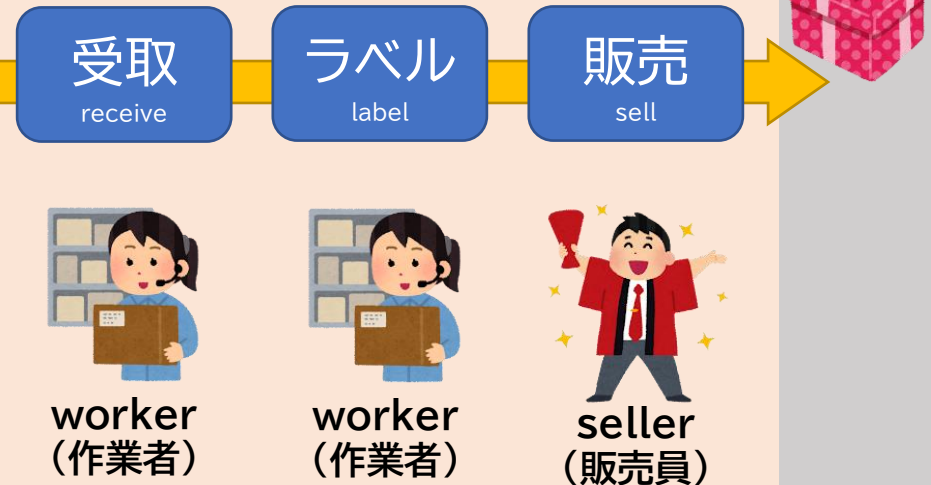
商品の製造を記録するため、worker(作業者) がログイン



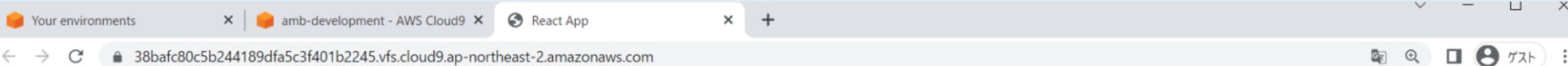
▼ココを実施中 er (供給業者)



SHOP retailer (小売業者)



worker(作業者) が商品の製造を記録する



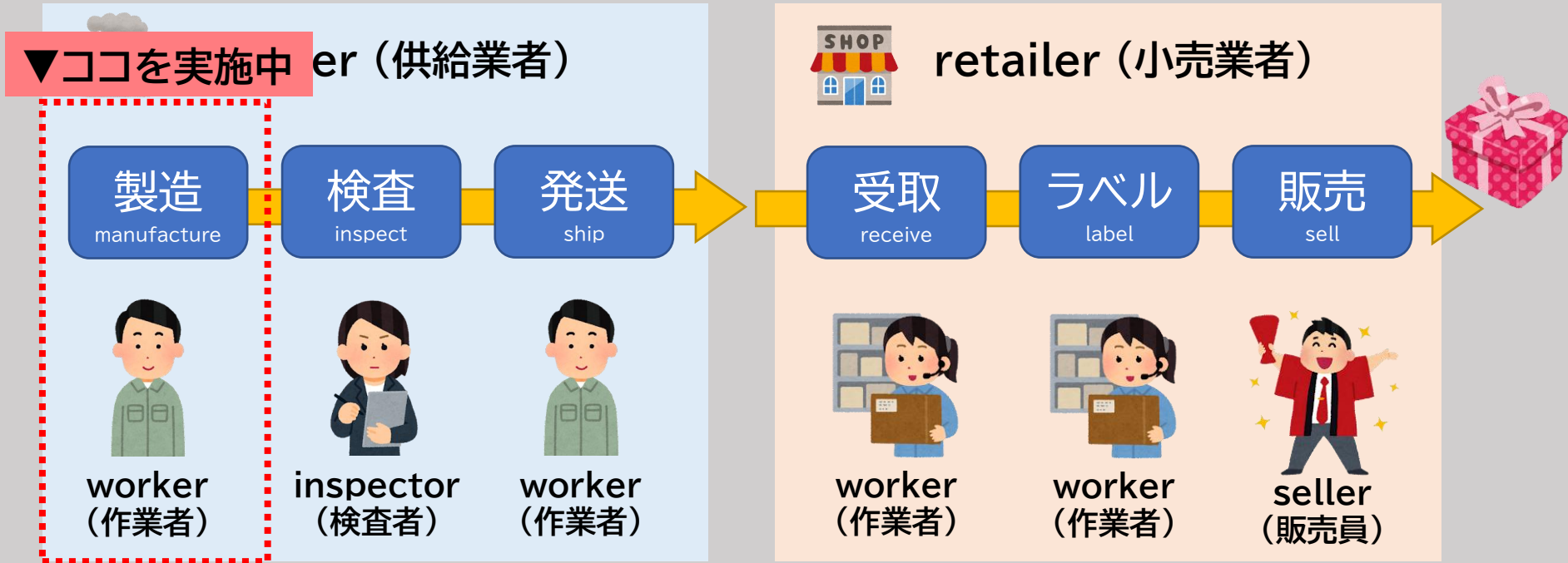
Supply Chain Manager

Sign out spworker

Create new product

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

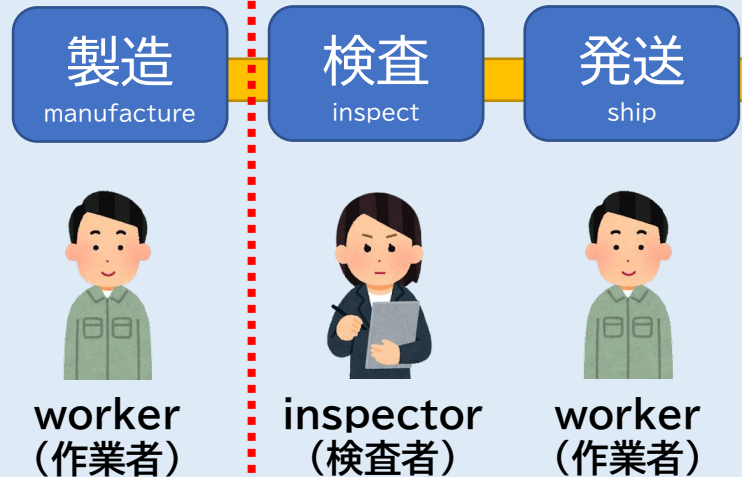
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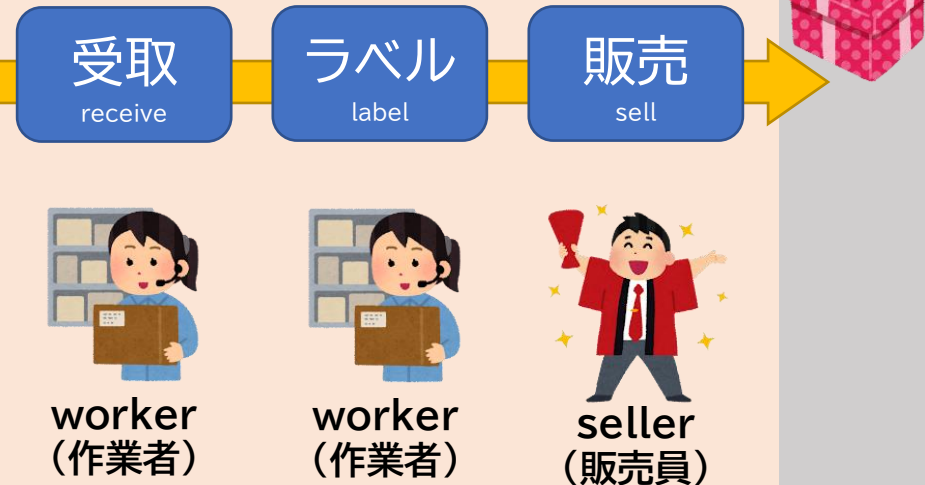
製造した商品が1つ登録される (CURRENT STATE が manufactured)

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	manufactured	a few seconds ago					
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

▼ココを実施中 er (供給業者)



SHOP retailer (小売業者)



次の作業は、inspector(検査者) なので、ログアウト



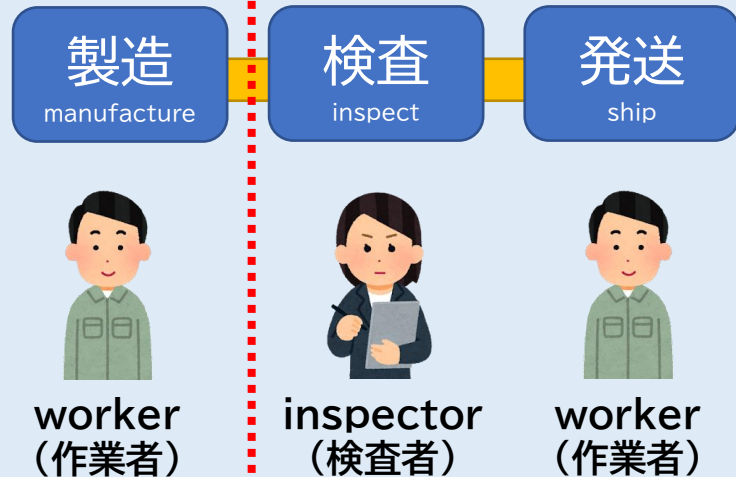
Supply Chain Manager

Sign out spworker

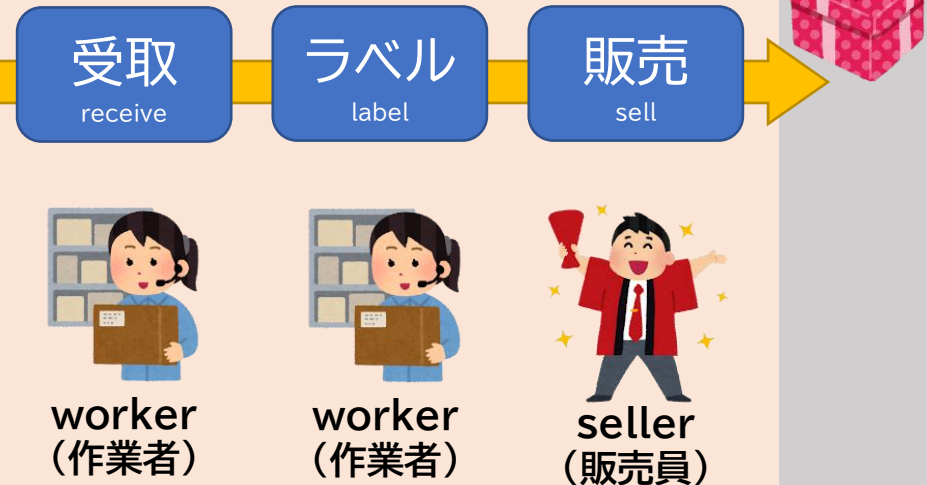
Create new product

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	manufactured	a few seconds ago					
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

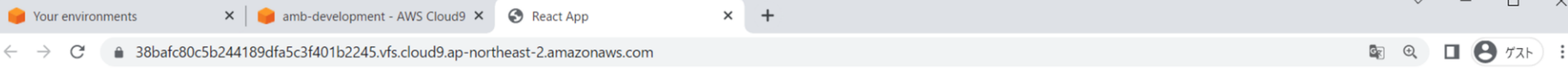
▼ココを実施中 er (供給業者)



retailer (小売業者)



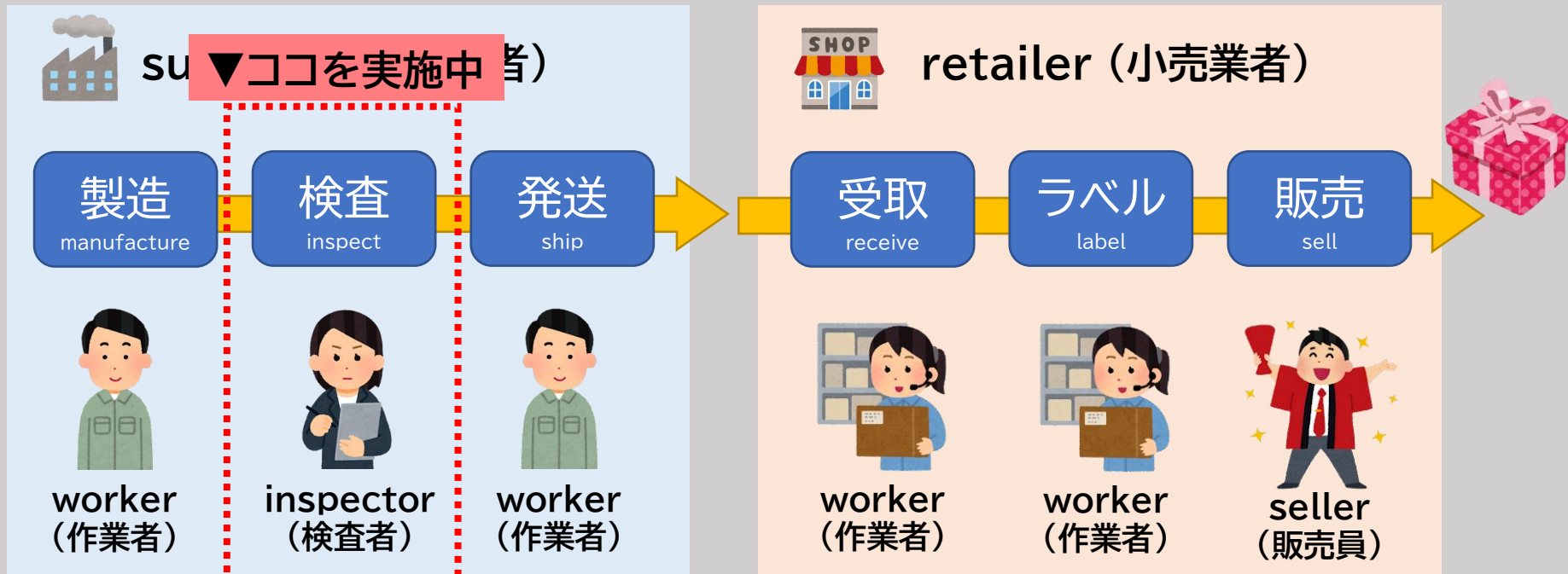
商品の検査を記録するため、inspector(検査者)がログイン



Supply Chain Manager

Sign in as spworker

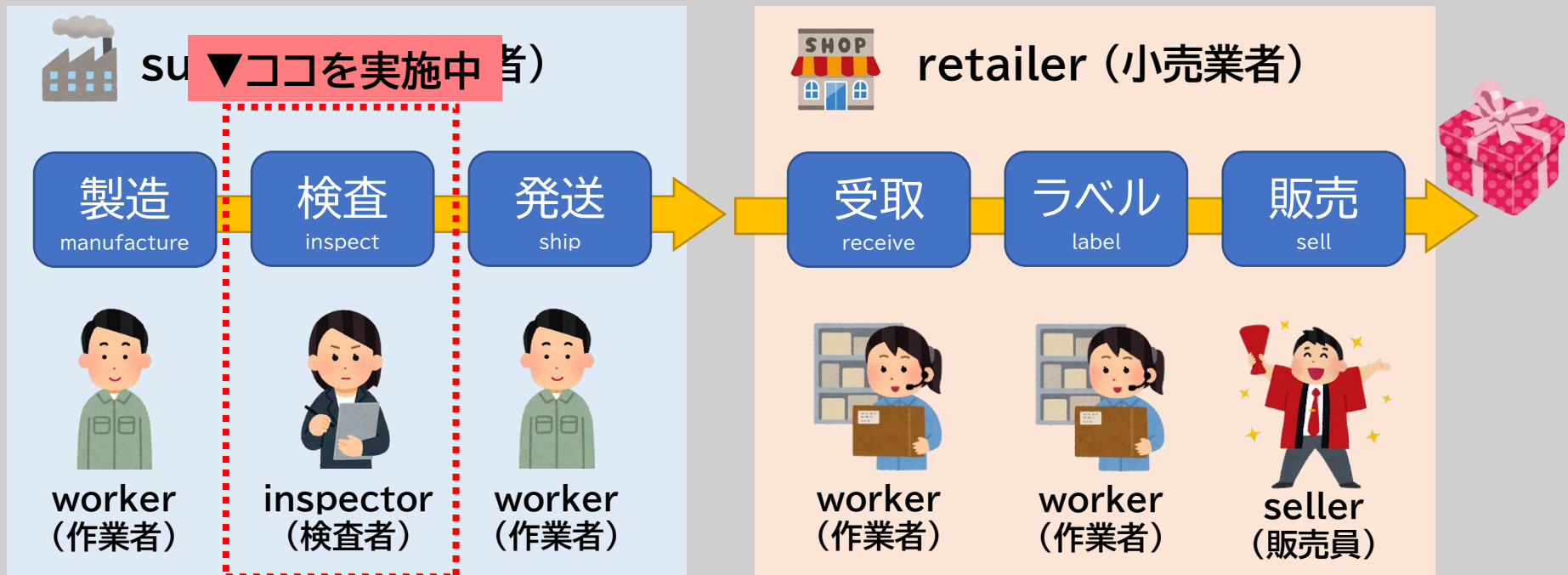
Sign in as spinspector



先ほど製造された商品が記録されていることが分かる

The screenshot shows a web browser window with the URL `38bafcc80c5b244189dfa5c3f401b2245.vfs.cloud9.ap-northeast-2.amazonaws.com`. The page title is "Supply Chain Manager" and there is a "Sign out spinspector" button in the top right. Below the title is a table with the following columns: SERIAL NUMBER, CURRENT STATE, MANUFACTURED, INSPECTED, SHIPPED, STOCKED, LABELED, and SOLD. The first row, with serial number T8ZFUXXA and state "manufactured", is highlighted with a red border. An "inspect" button is visible next to this row. Below the table, a note states: "This site generated as part of the [supply chain workshop](#) for [Amazon Managed Blockchain](#)".

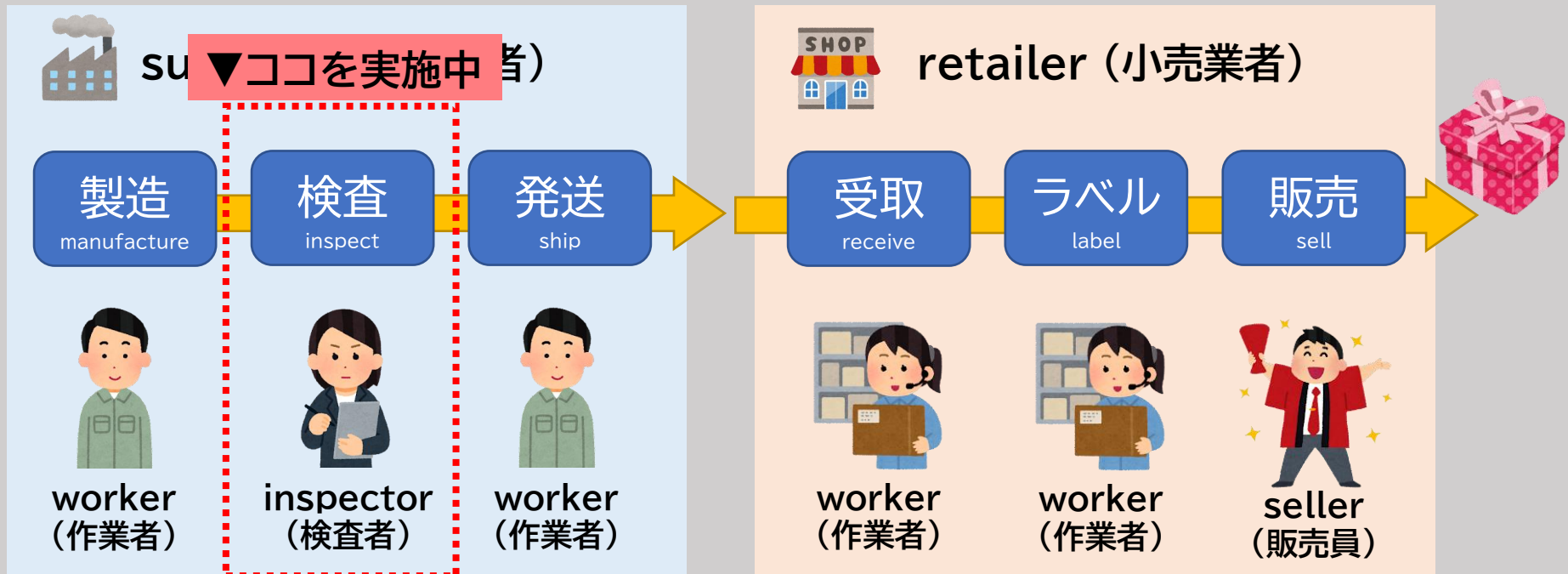
SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	manufactured	2 minutes ago					
GMM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago



検査を行い、「inspect」ボタンを押す

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD	
T8ZFUXXA	manufactured	2 minutes ago						<input type="button" value="inspect"/>
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	

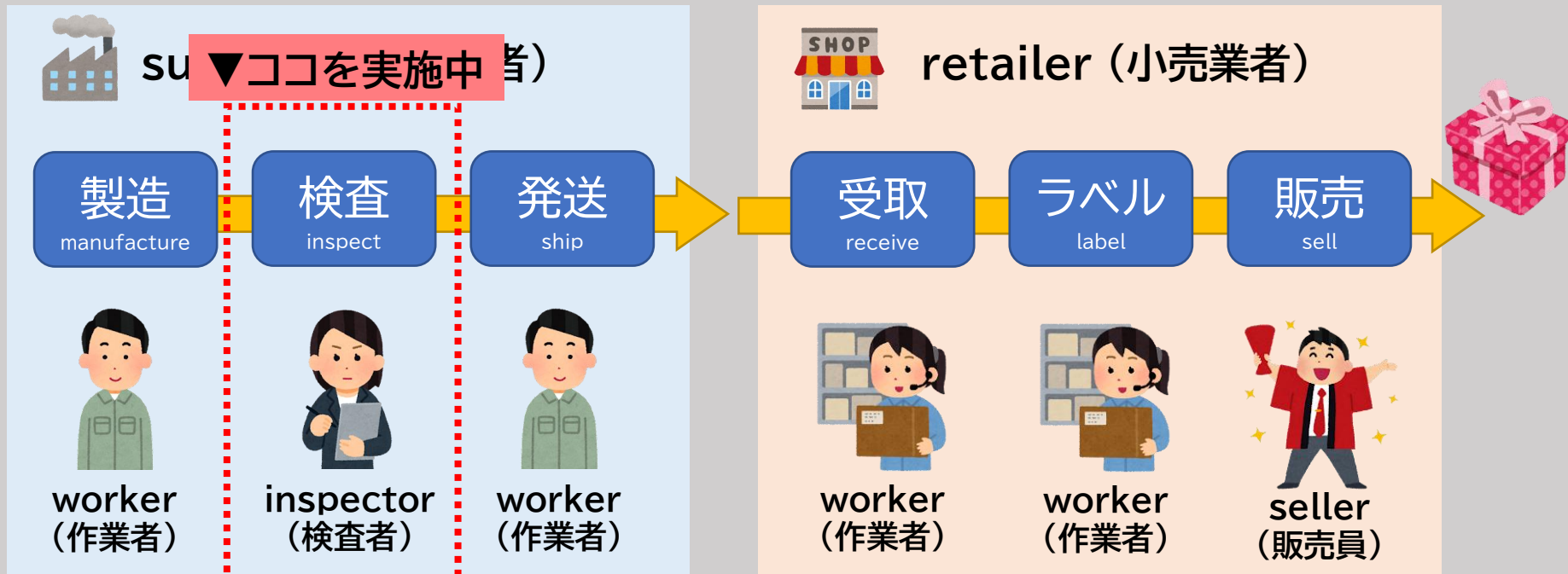
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検査が完了されたことが記録される (CURRENT STATE が inspected)

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	inspected	2 minutes ago	a few seconds ago				
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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次の作業は、worker(作業者) なので、ログアウト

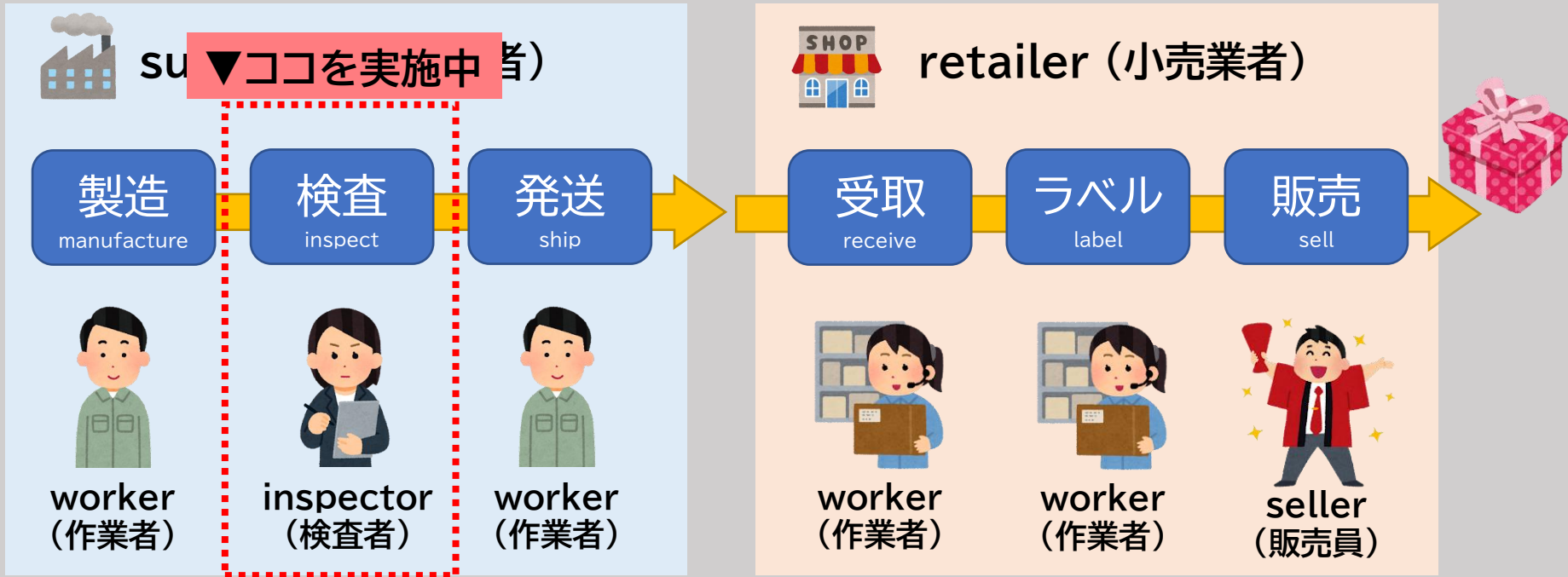


Supply Chain Manager

Sign out spinspector

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	inspected	2 minutes ago	a few seconds ago				
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

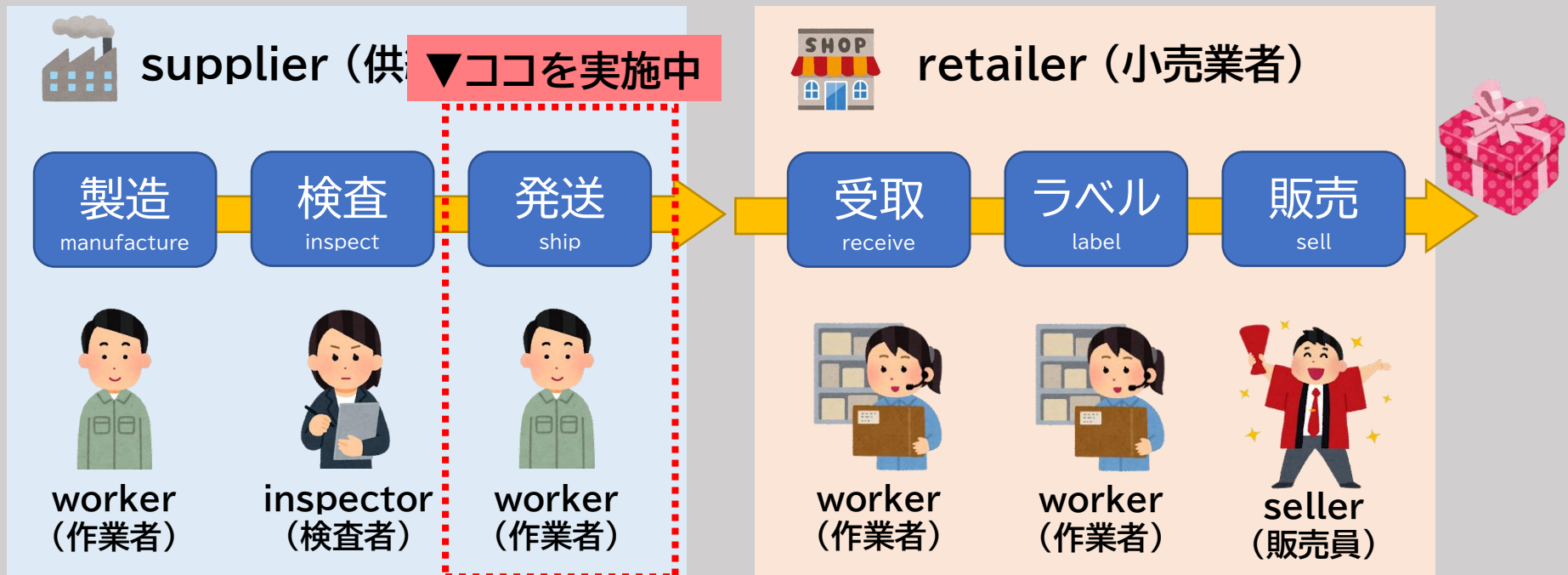
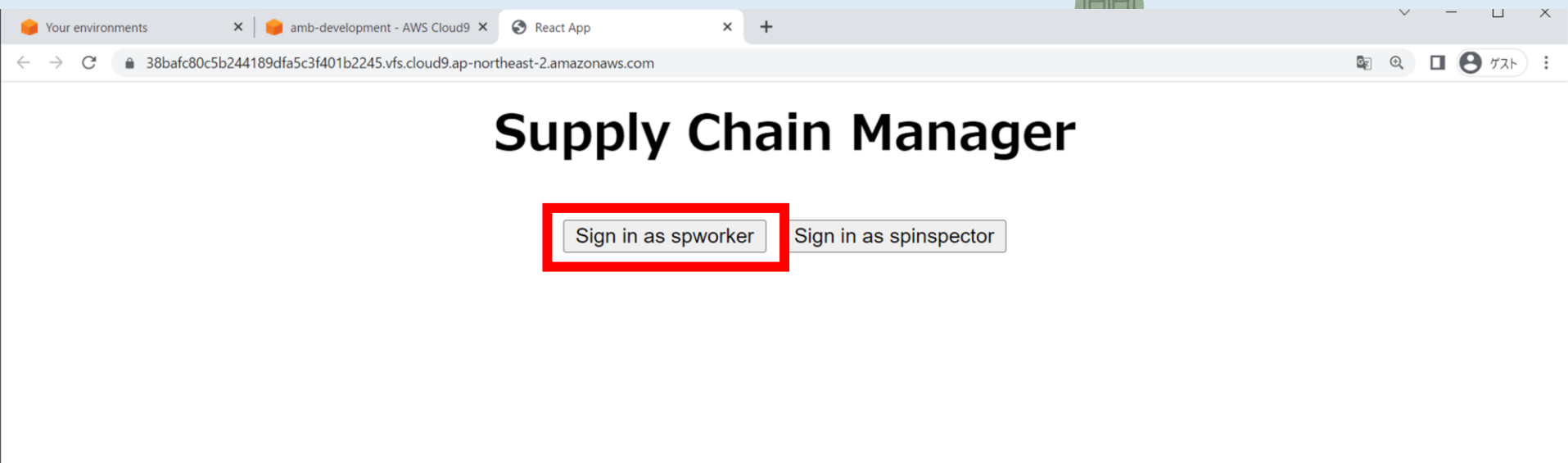
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商品の発送を記録するため、worker(作業者)がログイン

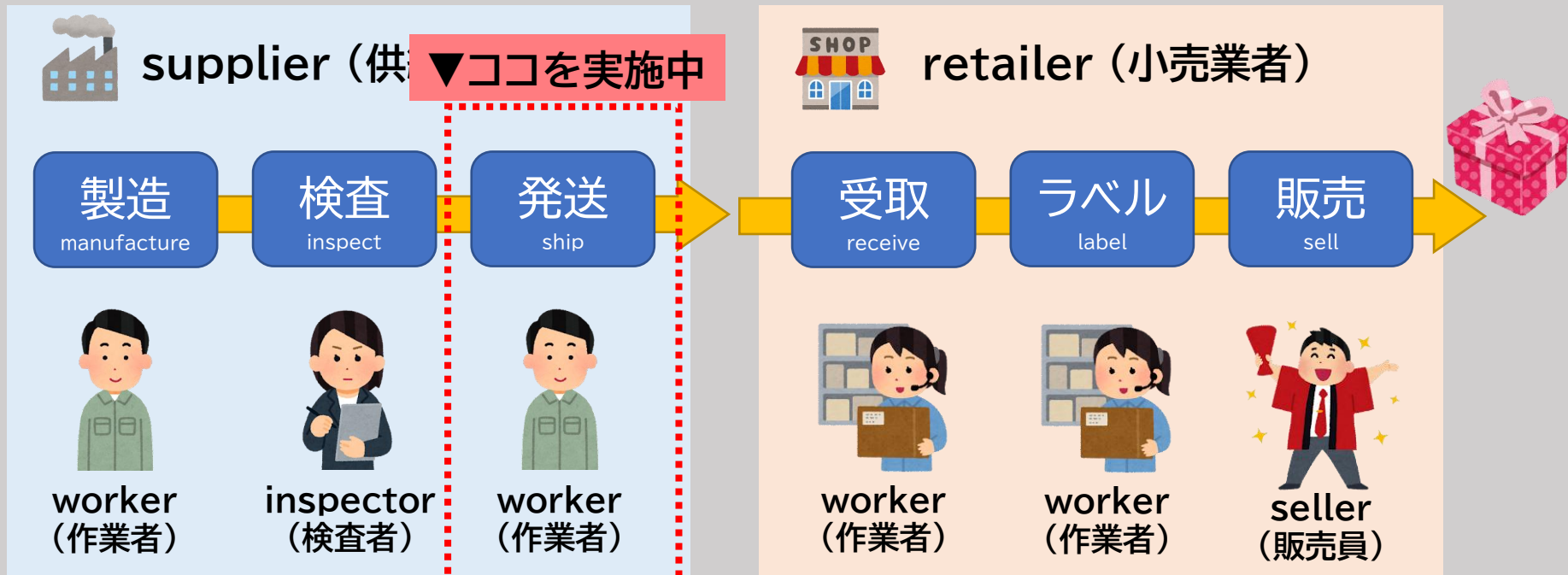


がログイン



検査が完了していることが記録されている

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	inspected	6 minutes ago	4 minutes ago				
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago



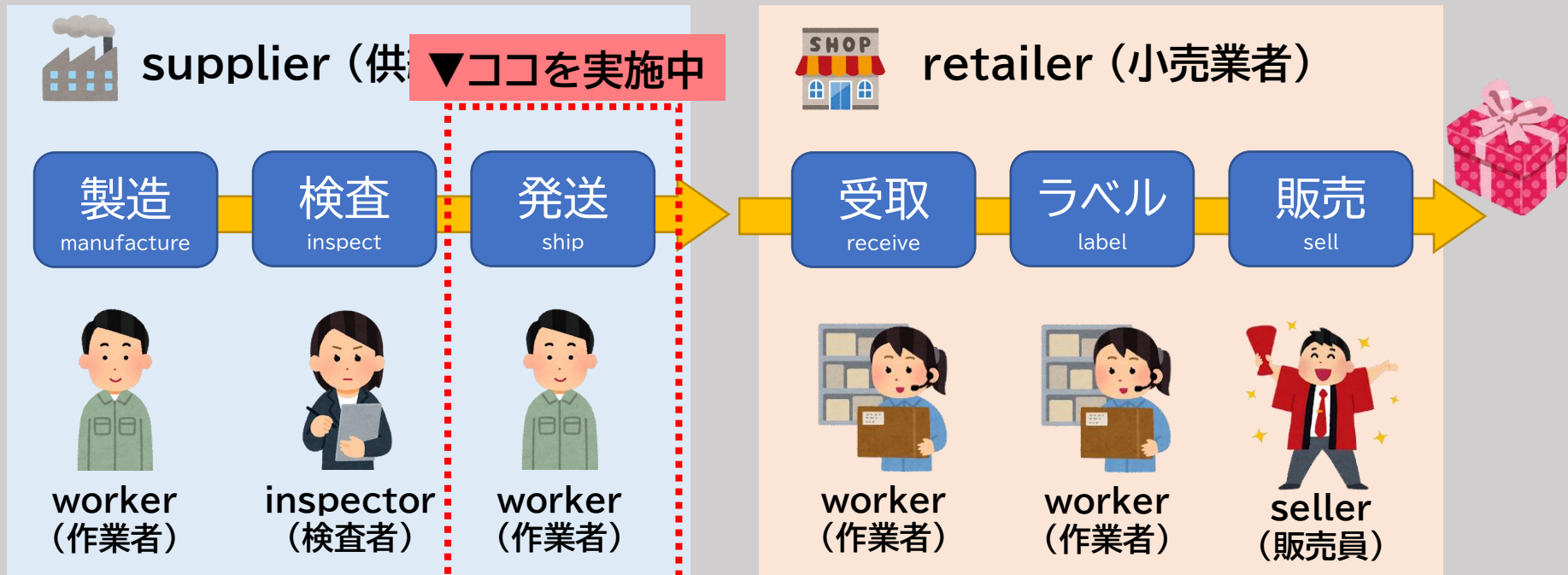
商品の発送を記録するため、「ship」ボタンを押す

Supply Chain Manager

Sign out spworker

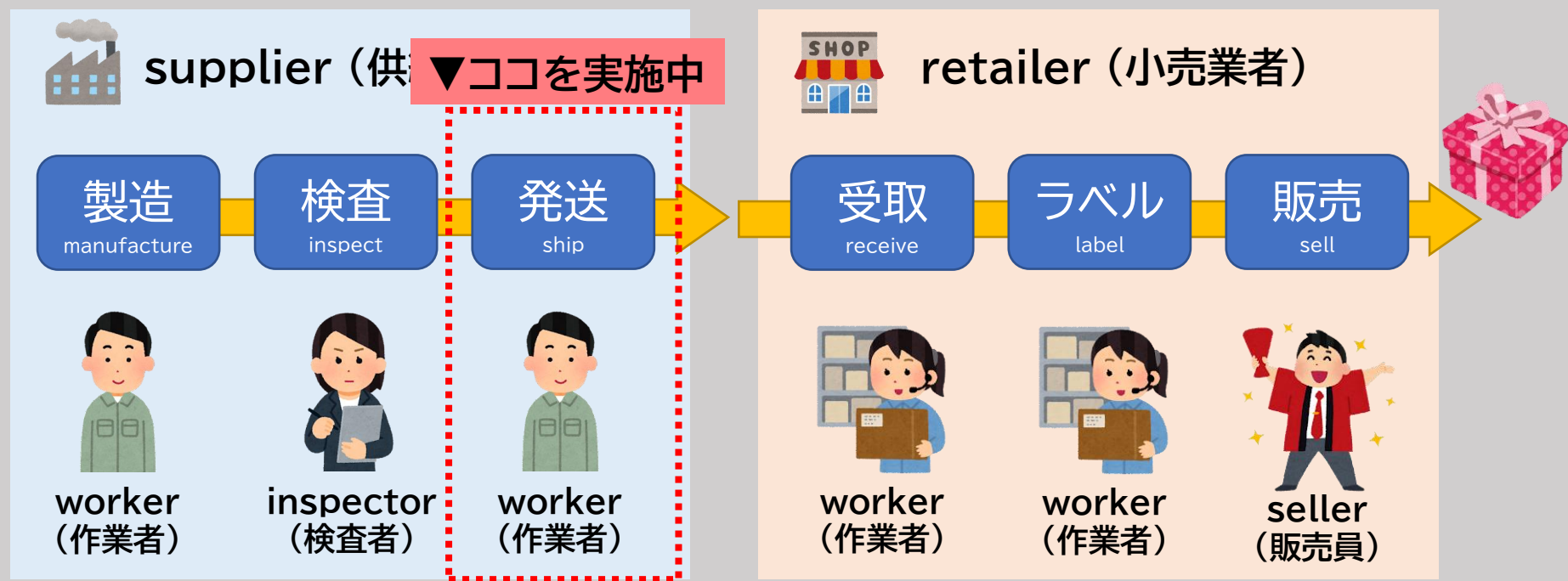
Create new product

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	inspected	6 minutes ago	4 minutes ago	<input type="button" value="ship"/>			
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago



発送が完了したことが記録される (CURRENT STATE が shipped)

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	shipped	7 minutes ago	4 minutes ago	a few seconds ago			
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago





supplier (供給業者)



retailer (小売業者)



worker
(作業者)



inspector
(検査者)



worker
(作業者)



worker
(作業者)



worker
(作業者)



seller
(販売員)



Supply Chain Manager

Sign in as rtworker

Sign in as rtseller



ここからは、retailer(小売業者) の操作のため下画面で説明





supplier (供給業者)



worker
(作業者)



inspector
(検査者)



worker
(作業者)

▼ココを実施中 er (小売業者)



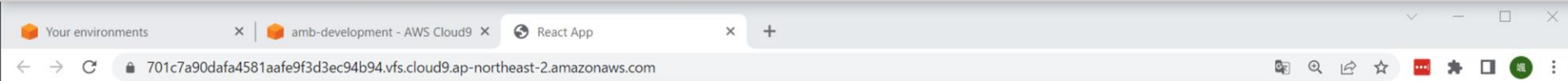
worker
(作業者)



worker
(作業者)



seller
(販売員)



Supply Chain Manager

Sign in as rtworker

Sign in as rtseller

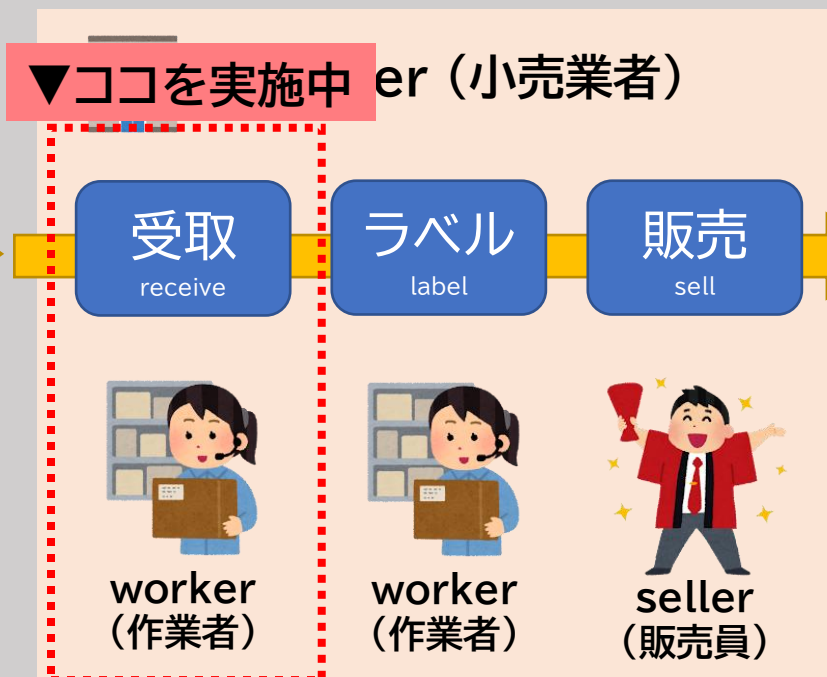
商品の受け取りを記録するため、worker(作業者)



がログイン



supplier (供給業者)



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701c7a90dafa4581aafe9f3d3ec94b94.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out rtworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	shipped	15 minutes ago	13 minutes ago	8 minutes ago			
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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商品が発送されていることが、retailer側の台帳にも記録されている



supplier (供給業者)



worker
(作業員)



inspector
(検査員)



worker
(作業員)

▼ココを実施中 er (小売業者)



worker
(作業員)



worker
(作業員)



seller
(販売員)



Supply Chain Manager

Sign out rtworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	shipped	15 minutes ago	13 minutes ago	8 minutes ago			<input type="button" value="receive"/>
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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商品の受け取りを記録するため、「receive」ボタンを押す



supplier (供給業者)



worker
(作業員)



inspector
(検査員)



worker
(作業員)

▼ココを実施中 er (小売業者)



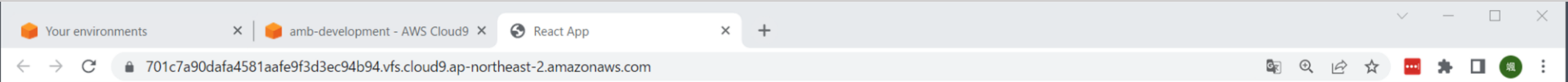
worker
(作業員)



worker
(作業員)



seller
(販売員)



Supply Chain Manager

Sign out rtworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	stocked	17 minutes ago	15 minutes ago	11 minutes ago	a few seconds ago		<input type="button" value="label"/>
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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商品を受け取り、在庫されたことが記録された (STATE が stocked)



supplier (供給業者)



worker
(作業者)



inspector
(検査者)



worker
(作業者)



retailer (▼ココを実施中)



worker
(作業者)



worker
(作業者)



seller
(販売員)



Supply Chain Manager

Sign out rtworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	stocked	17 minutes ago	15 minutes ago	11 minutes ago	a few seconds ago	label	
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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続けて、ラベル貼りの作業を完了したことを記録する



supplier (供給業者)



worker
(作業者)



inspector
(検査者)



worker
(作業者)



retailer (▼ココを実施中)



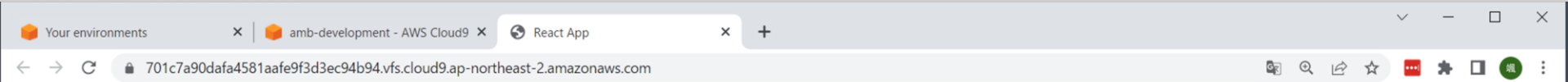
worker
(作業者)



worker
(作業者)



seller
(販売員)



Supply Chain Manager

Sign out rtworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	labeled	19 minutes ago	17 minutes ago	12 minutes ago	2 minutes ago	a few seconds ago	
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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ラベルが貼られたことが記録された (CURRENT STATE が labeled)

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38bafc80c5b244189dfa5c3f401b2245.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out spworker

Create new product

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	labeled	19 minutes ago	17 minutes ago	13 minutes ago	2 minutes ago	a few seconds ago	
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

Your environments | amb-development - AWS Cloud9 | React App

701c7a90dafa4581aafe9f3d3ec94b94.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out spworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	labeled	19 minutes ago	17 minutes ago	12 minutes ago	2 minutes ago	a few seconds ago	
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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【補足】これらの記録は、リアルタイムで supplier 側の台帳にも記録される



supplier (供給業者)

製造
manufacture

検査
inspect

発送
ship



worker
(作業者)



inspector
(検査者)



worker
(作業者)



retailer (▼ココを実施中者)

受取
receive

ラベル
label

販売
sell



worker
(作業者)



worker
(作業者)



seller
(販売員)



Supply Chain Manager

Sign out rtworker

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	labeled	19 minutes ago	17 minutes ago	12 minutes ago	2 minutes ago	a few seconds ago	
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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次の作業は、seller(販売員)なので、ログアウト



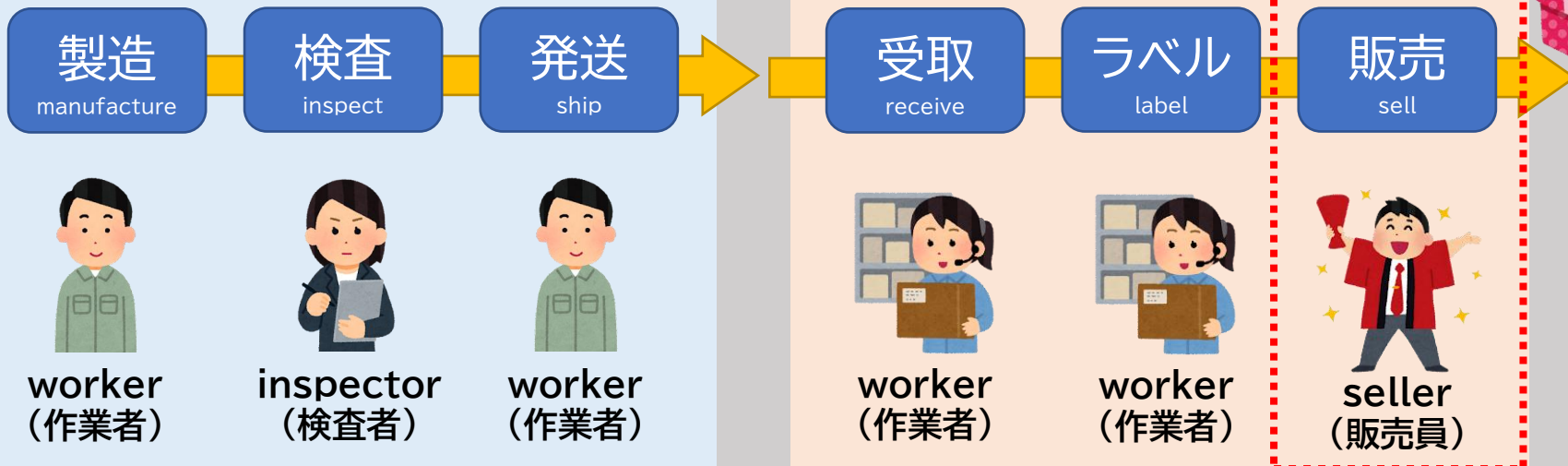


supplier (供給業者)



retailer (小

▼ココを実施中



Supply Chain Manager

商品の販売を記録するため、seller(販売員)がログイン

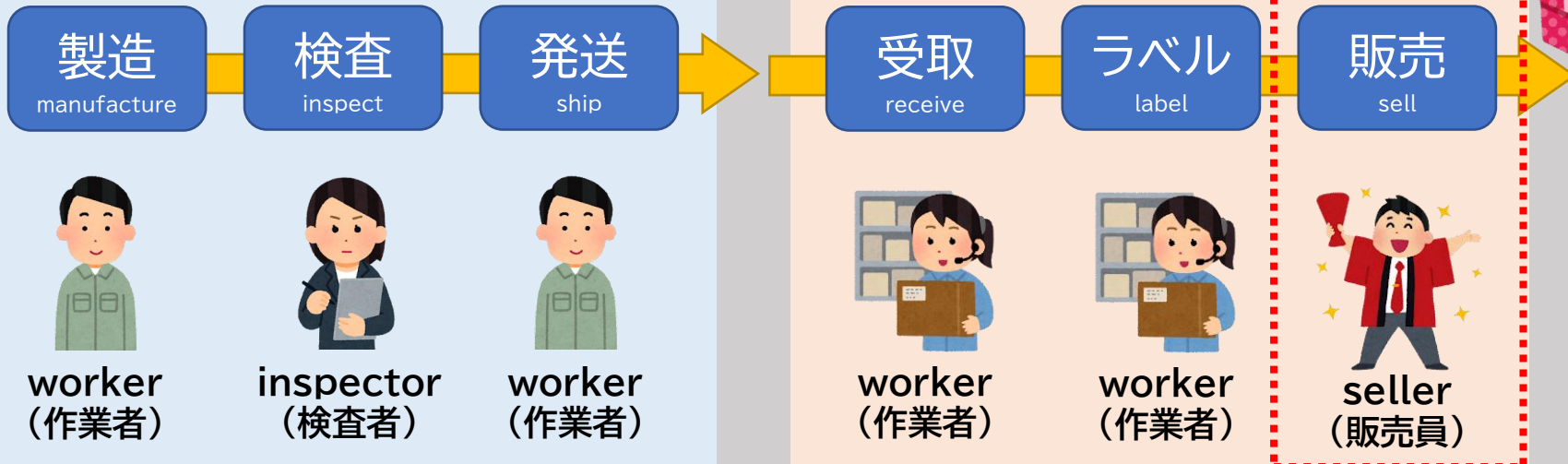




supplier (供給業者)



retailer (小売) ▼ココを実施中



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701c7a90dafa4581aafe9f3d3ec94b94.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out rtseller

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	labeled	20 minutes ago	18 minutes ago	14 minutes ago	3 minutes ago	a minute ago	sell
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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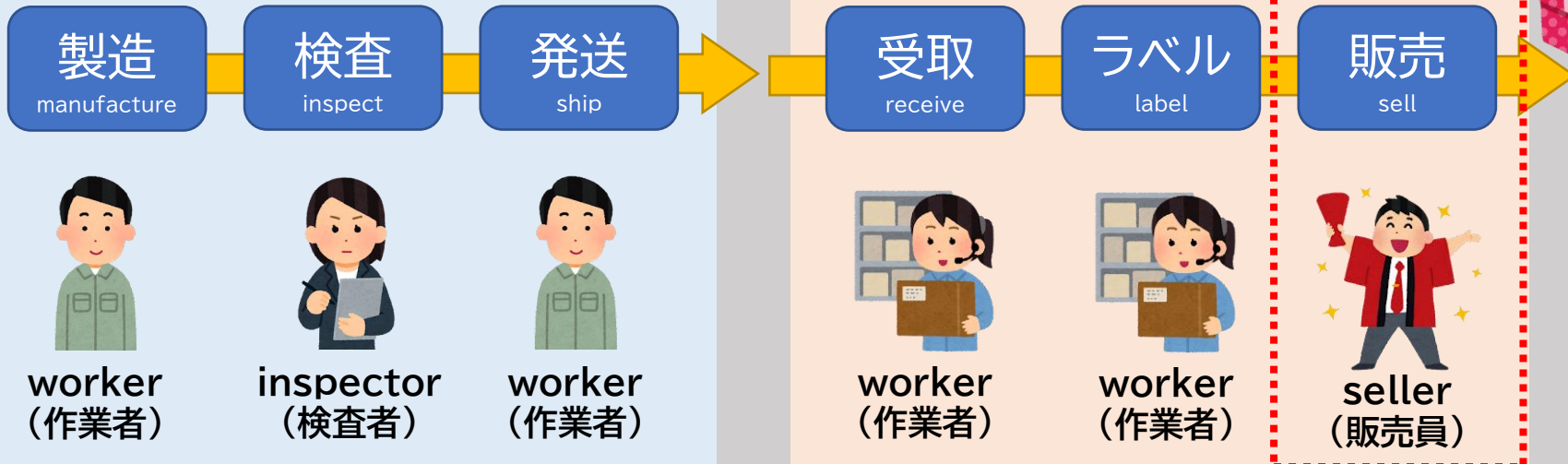
商品のラベル貼りが完了していることが記録されている



supplier (供給業者)



retailer (小売) ▼ココを実施中



Your environments | amb-development - AWS Cloud9 | React App

701c7a90dafa4581aafe9f3d3ec94b94.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out rtSeller

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	labeled	21 minutes ago	18 minutes ago	14 minutes ago	3 minutes ago	2 minutes ago	sell
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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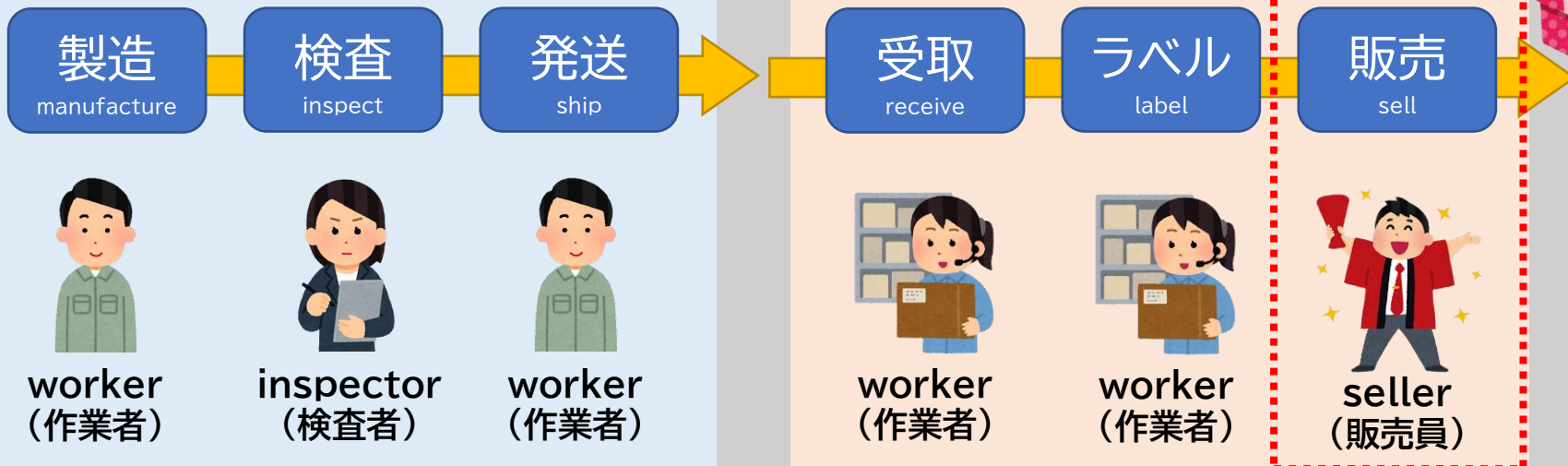
商品の販売を記録するため、「sell」ボタンを押す



supplier (供給業者)



retailer (小売) ▼ココを実施中



Supply Chain Manager

Sign out rtseller

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	sold	21 minutes ago	19 minutes ago	15 minutes ago	4 minutes ago	2 minutes ago	a few seconds ago
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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商品の販売が記録された (CURRENT STATE が sold)

Your environments | amb-development - AWS Cloud9 | React App

38bafc80c5b244189dfa5c3f401b2245.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out spworker

Create new product

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	sold	22 minutes ago	19 minutes ago	15 minutes ago	4 minutes ago	3 minutes ago	a few seconds ago
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

Your environments | amb-development - AWS Cloud9 | React App

701c7a90dafa4581aafe9f3d3ec94b94.vfs.cloud9.ap-northeast-2.amazonaws.com

Supply Chain Manager

Sign out rtseller

SERIAL NUMBER	CURRENT STATE	MANUFACTURED	INSPECTED	SHIPPED	STOCKED	LABELED	SOLD
T8ZFUXXA	sold	22 minutes ago	19 minutes ago	15 minutes ago	4 minutes ago	3 minutes ago	a few seconds
GNM4BJMX	sold	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago	3 days ago
TEST1234	sold	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago	4 days ago

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【補足】これらの記録は、リアルタイムで supplier 側の台帳にも記録される

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