



UX Research Report

CES October 2019

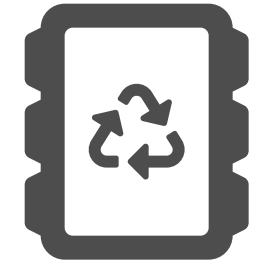
Acompani // Mauricio Perez

mo@acompani.com.au // 0405 419 059

Agenda

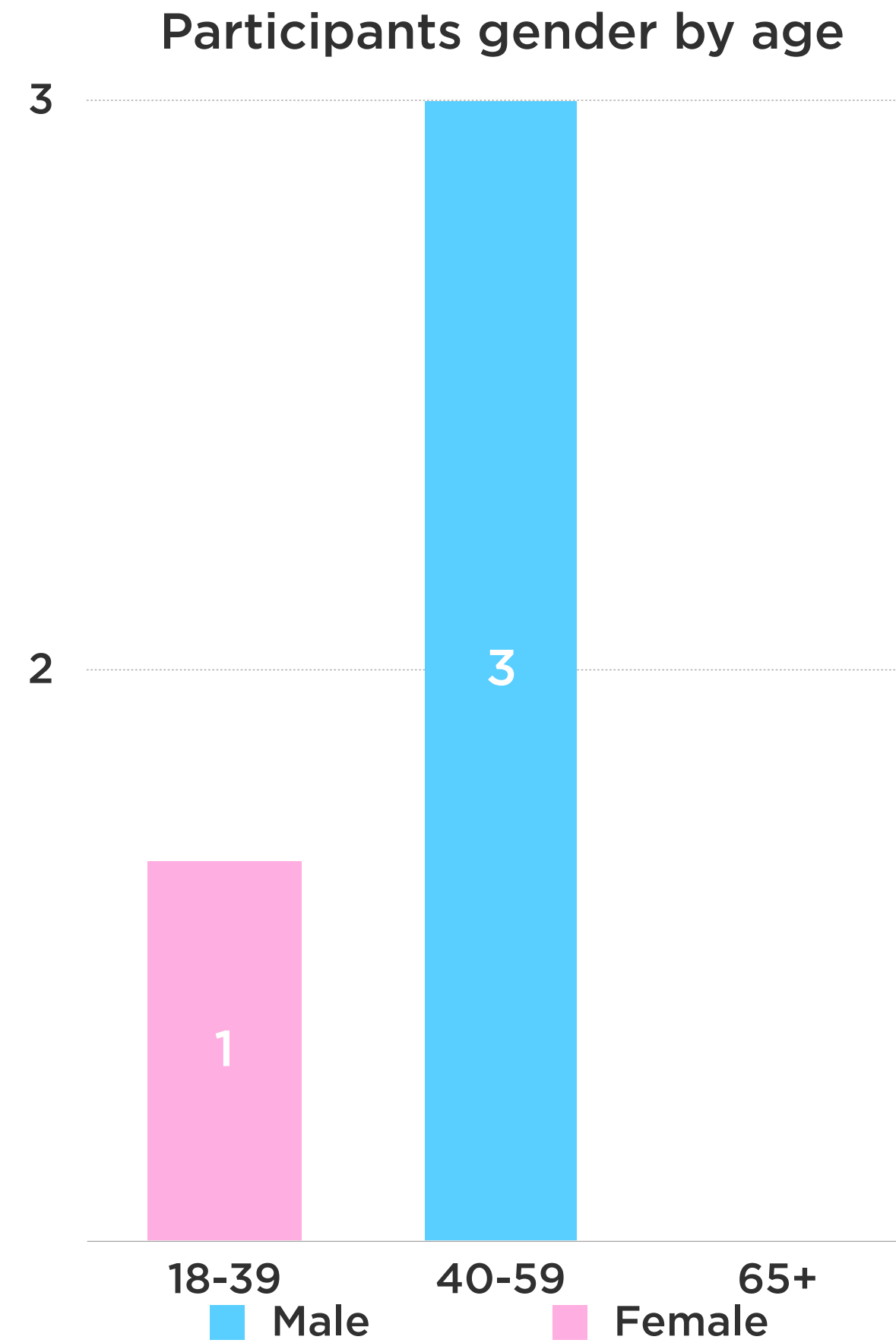
- POS Task completion
- POS Ease of use
- POS Challenges
- CRP Portal Task completion
- CRP Portal Ease of use
- CRP Portal Challenges
- Accessibility
- Support
- Next steps
- Q&A

POS Test Participants



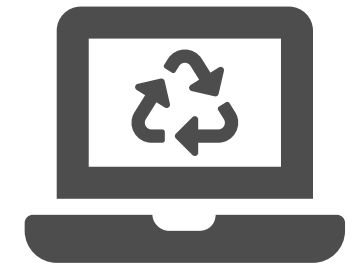
4

- 1 18 - 39 years
- 3 40 - 59 years
- 0 65+ years



We recruited internal CES staff who have had minimal use of the systems with either little or no training.

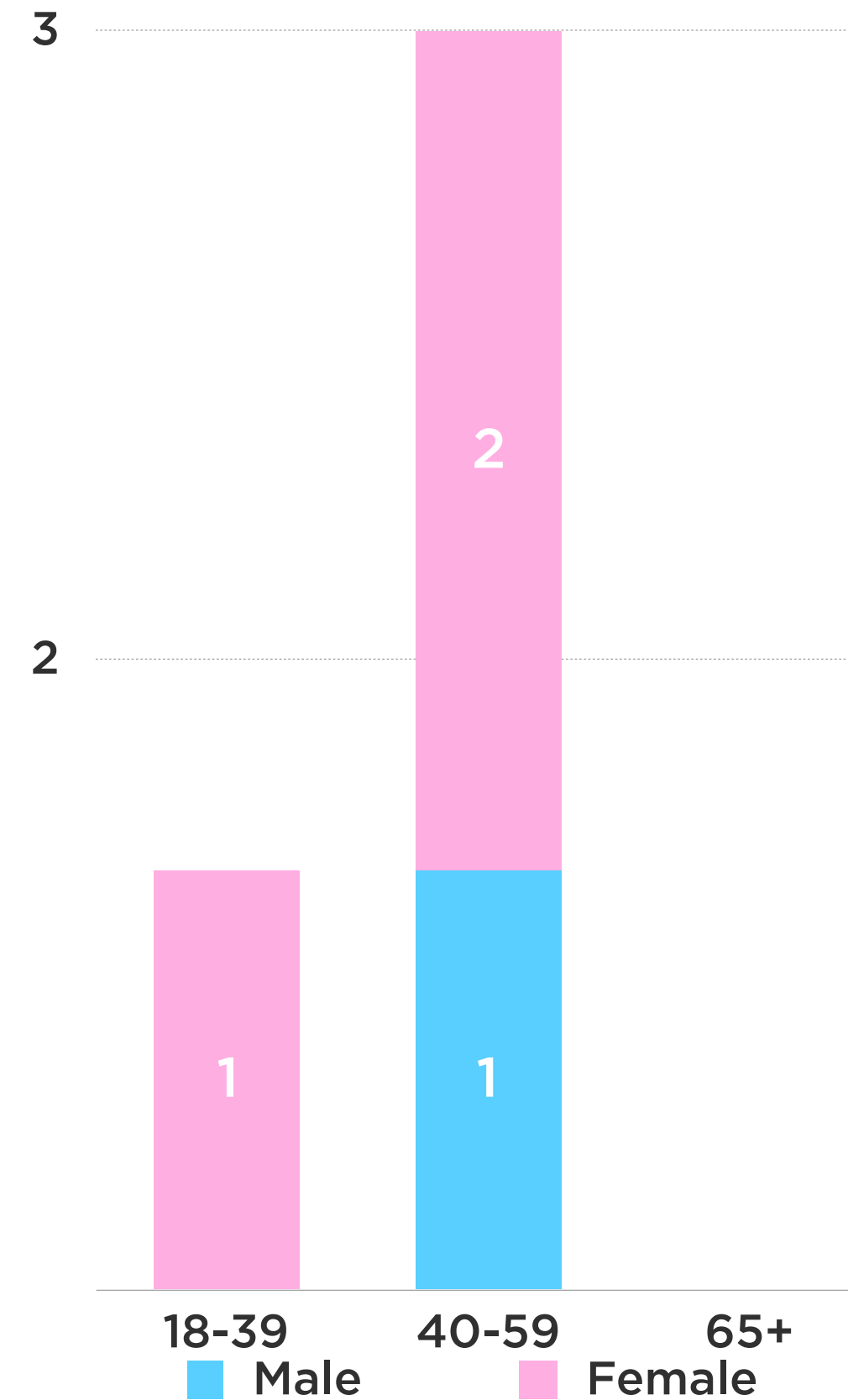
CRP Portal Test Participants



4

- 1 18 - 39 years
- 3 40 - 59 years
- 0 65+ years

Participants gender by age



We recruited internal CES staff who have had minimal use of the systems with either little or no training as well as CRPO staff who were unfamiliar with some parts of the systems.



POS





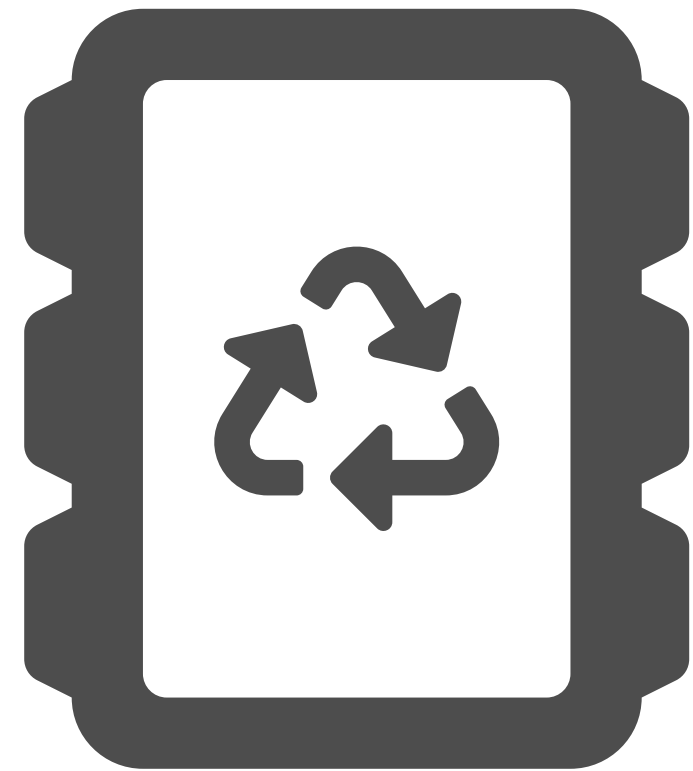
POS Task completion

Completion rates are the fundamental usability metric:

A binary measure of pass and fail (coded as 1 or 0) provides a simple metric of success. If users cannot complete a task, not much else matters with respect to usability or utility.



POS Task completion score

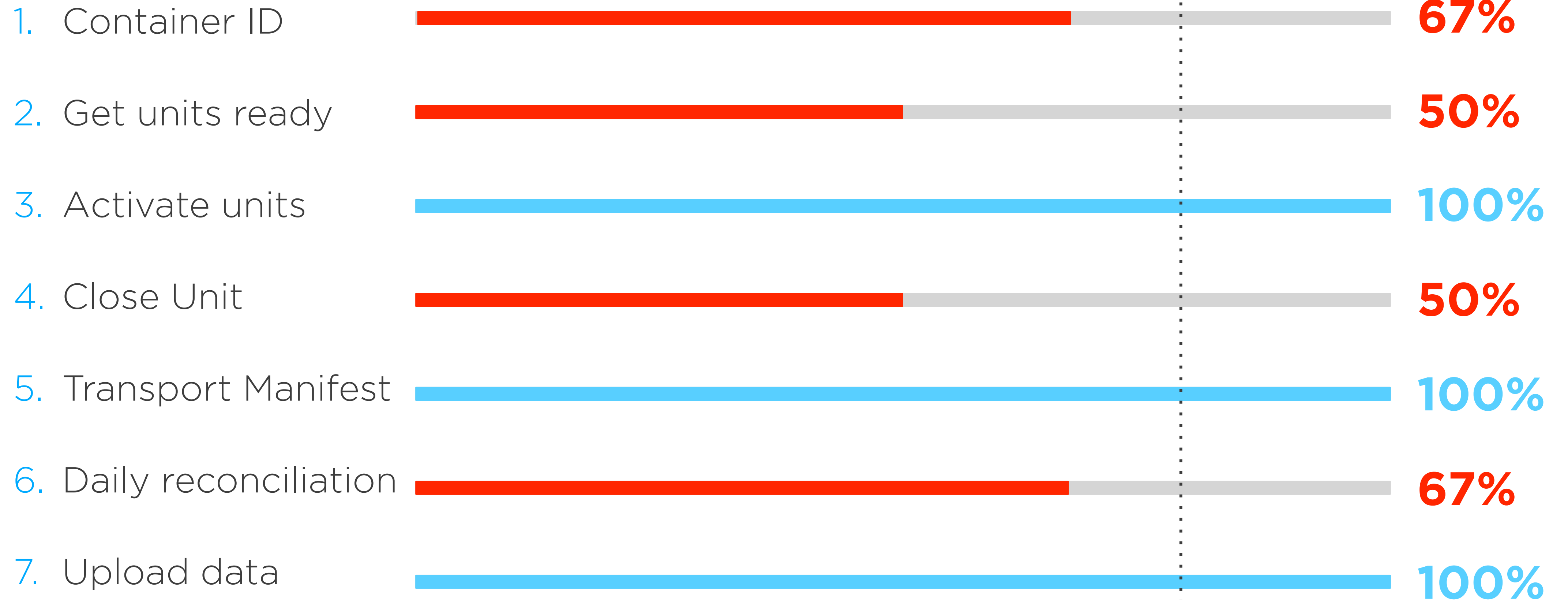
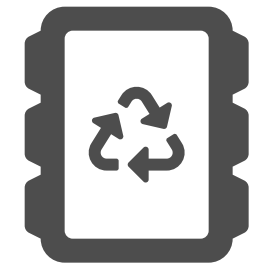


76%

78% is the average from a database of almost 1200 software and website tasks across several products and domains.



POS tasks

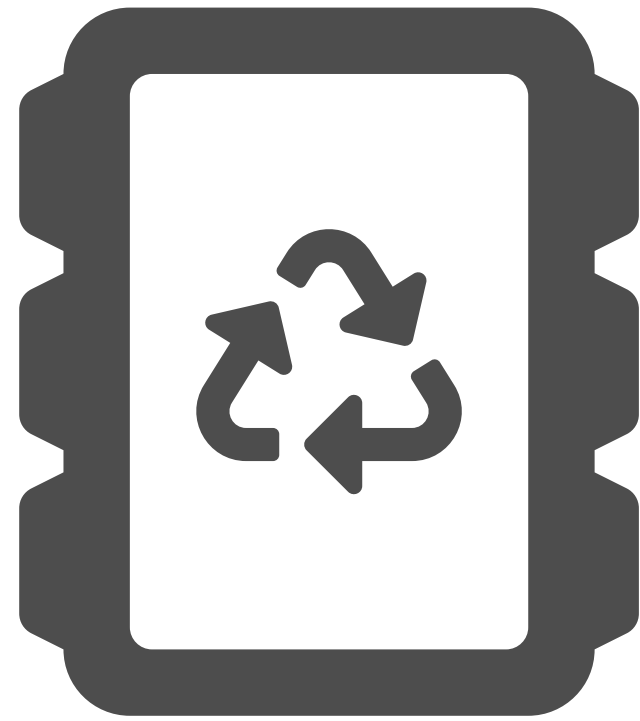




POS Ease of use

The SUS is an ease-of-use score. It has been tried and tested since 1986 and has proven itself to be a dependable method of evaluating the usability of systems which is internationally recognised.

POS. Ease of use



58 % D

The average System Usability Scale score is **68%**. If your score is under 68%, then there are probably serious problems with your website usability which you should address.



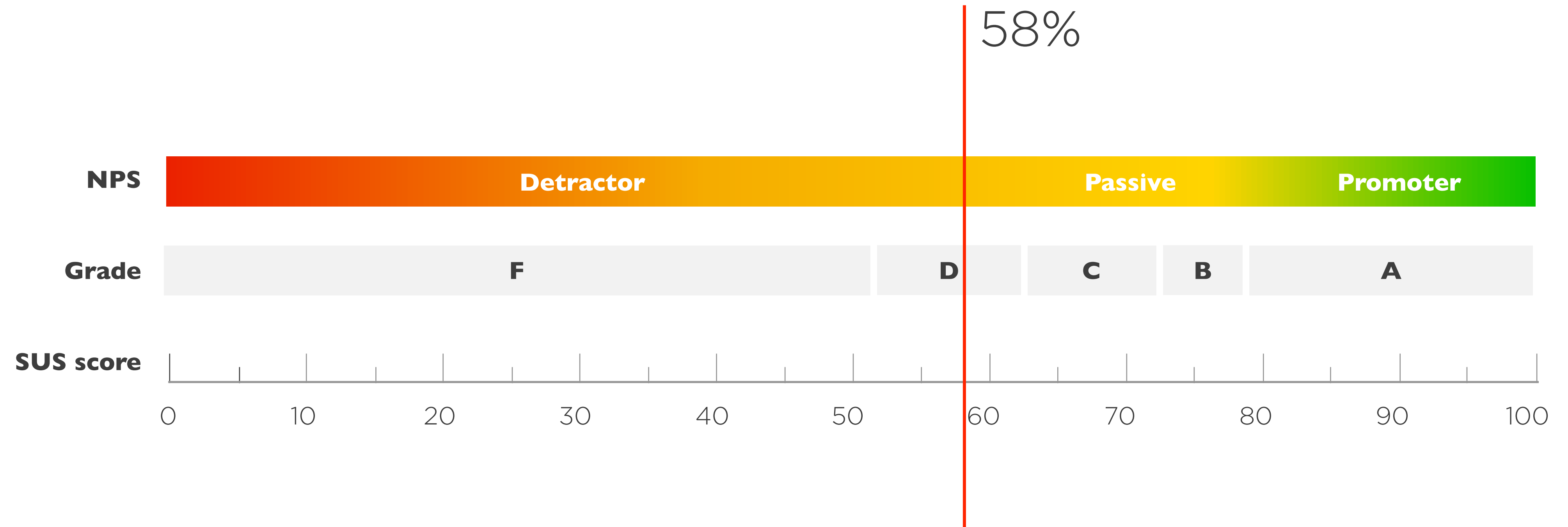
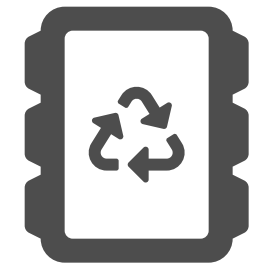
F 51% C 68% B 80.3% A

Make usability your priority now and fix this fast.

You're doing OK but could improve

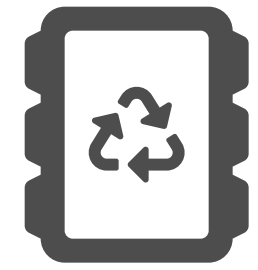
People love your system and will recommend it to their friends

POS SUS interpretations



<https://measuringu.com/interpret-sus-score/>

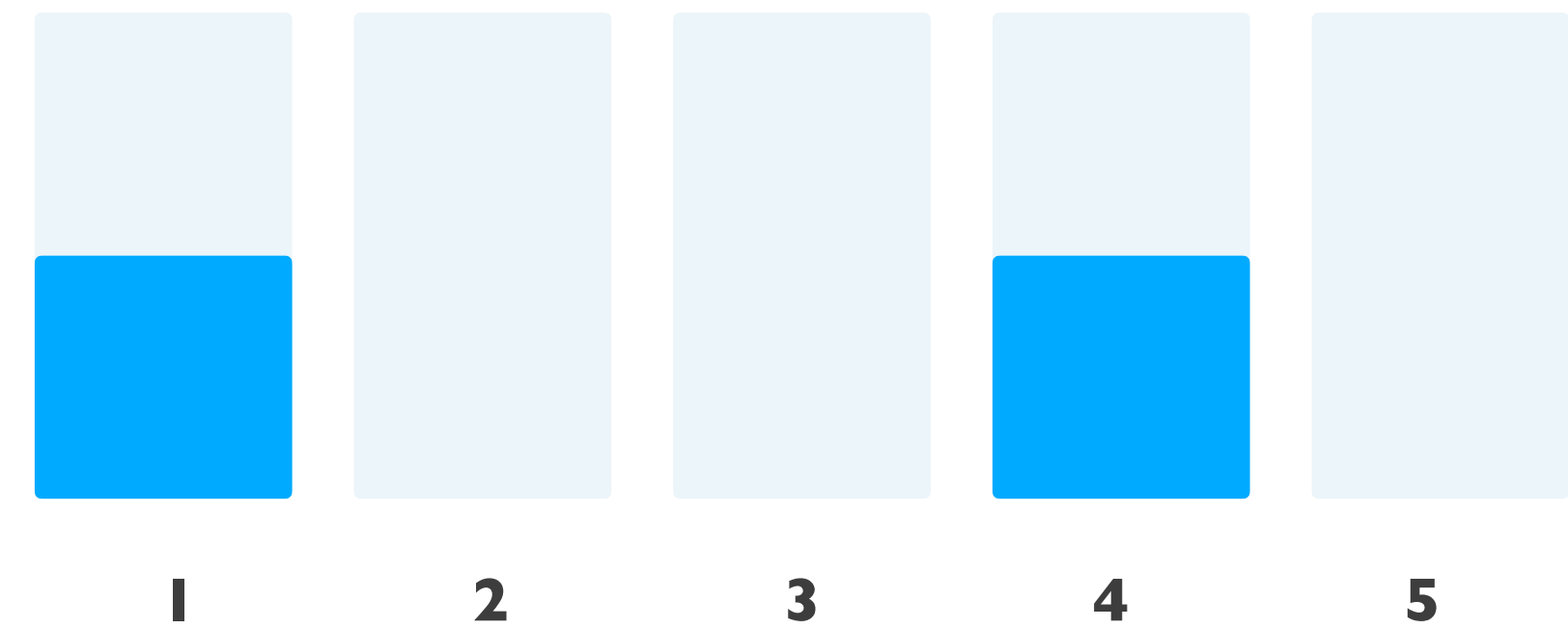
POS Net Promoter Score



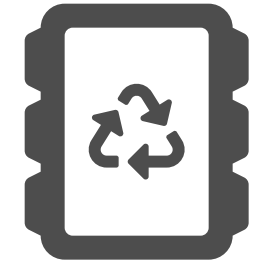
2.5 / 5







How would you rate this system?
(1 = Terrible, 5 = Excellent)

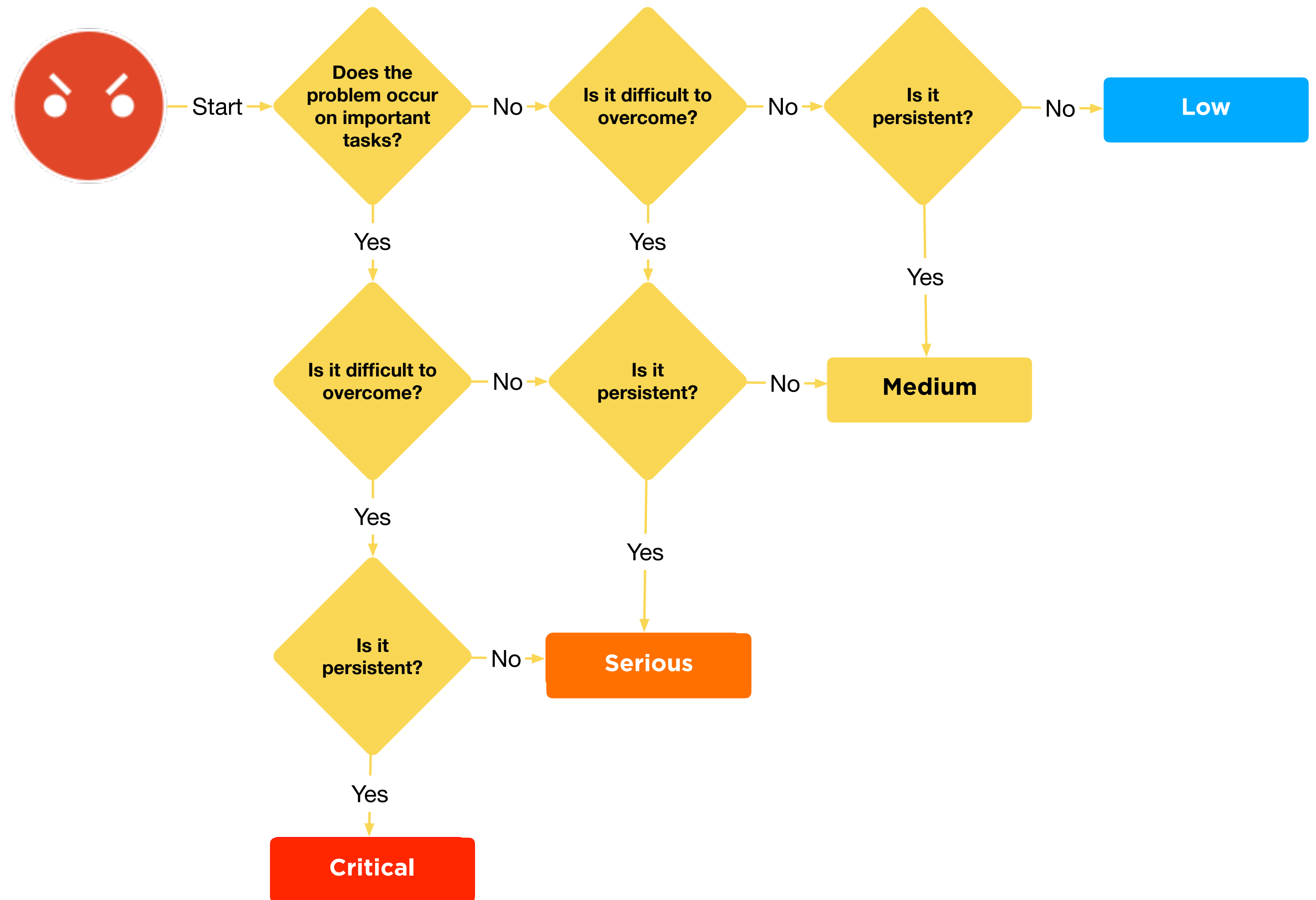
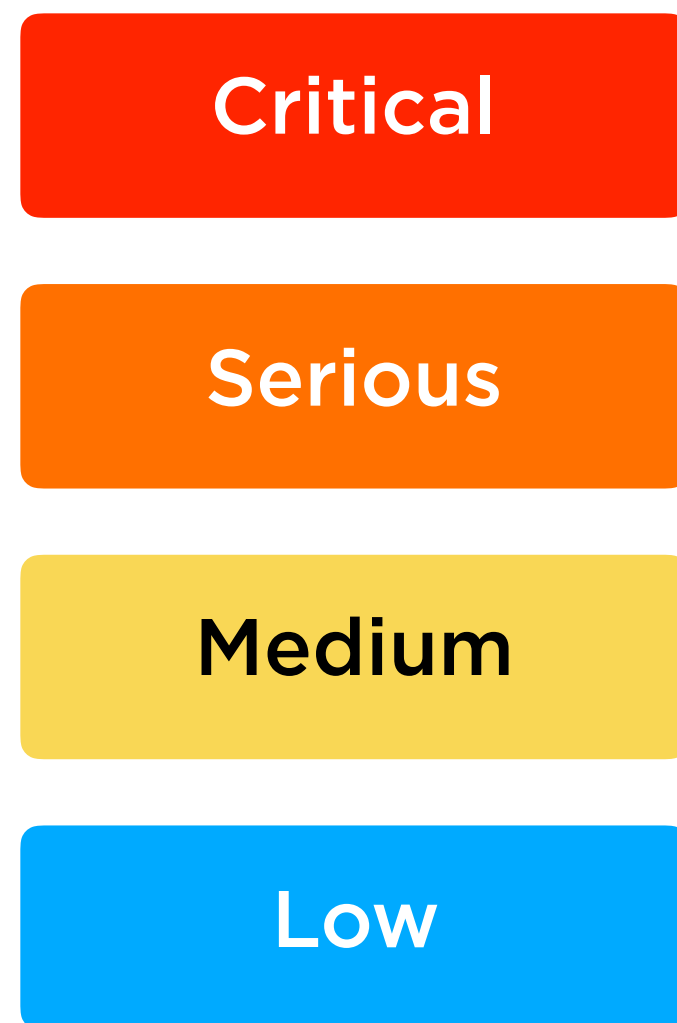


POS - Why they rated it so...



P1		It would be helpful if we could have transaction details before/after uploading the claim for verification purposes. In addition, it would be great if the full name of each material type is available for customer to understand to improve the accuracy.
P3		A couple of visibility after processed issues. Once I had processed the Manifest I could not see the detail.
P4		Not intuitive to use. Unnecessarily messy.
P5		Not intuitive, poor navigation and explanations, nowhere to go for help, clunky and unnecessarily complicated

Identifying problems and severity



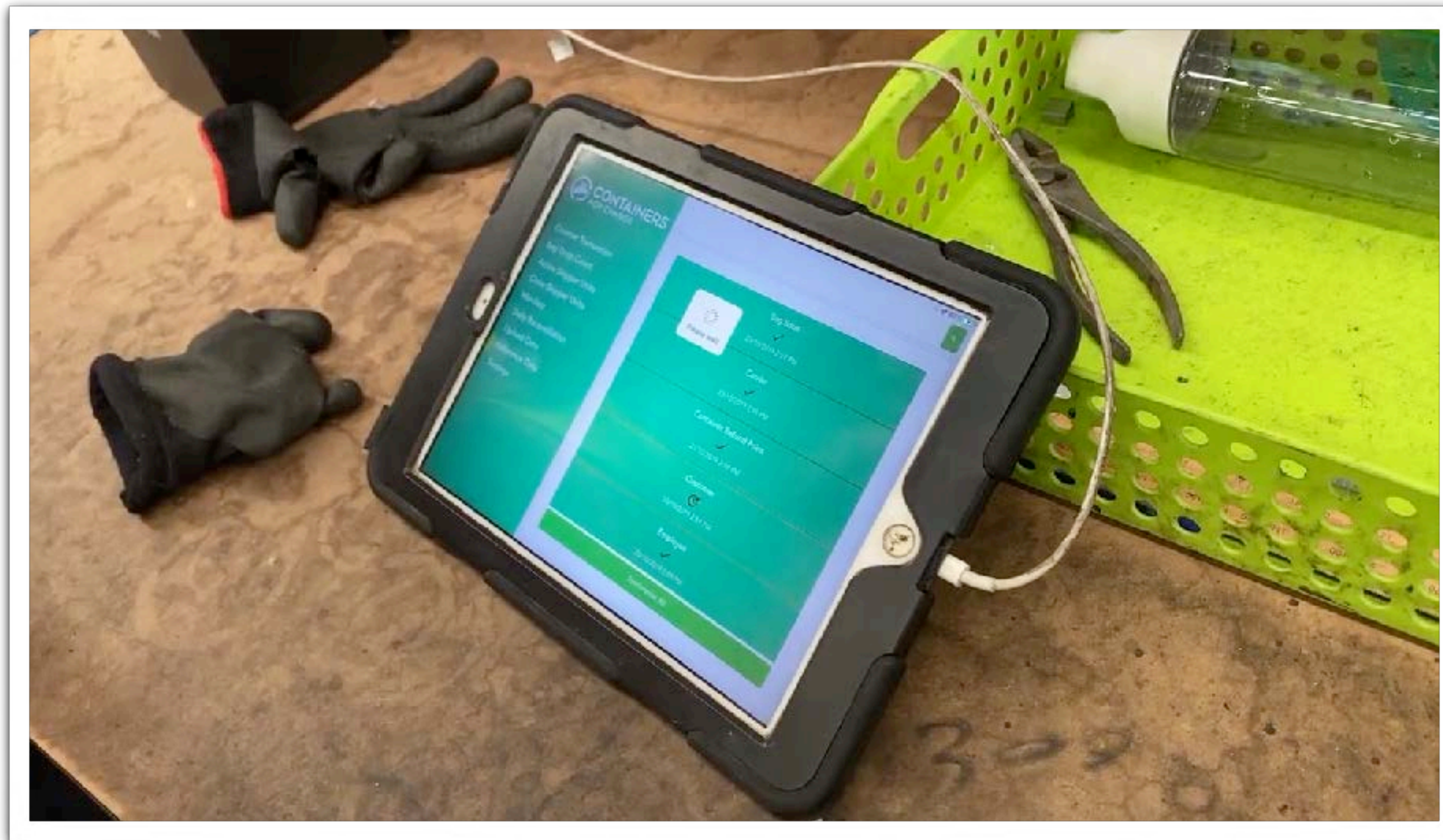
Employee ID set-up

Low

Medium

Serious

Critical



Users need to set up new employee on every single device the employee might be using

- Sync feature for new user may take up to 24 hours to appear on POS
- No feedback to identify the problem

Recommendations

- ✓ Implement error alerts for unknown user ID
- ✓ Suggest next steps in error alerts
- ✓ Allow user feedback to report bugs and errors

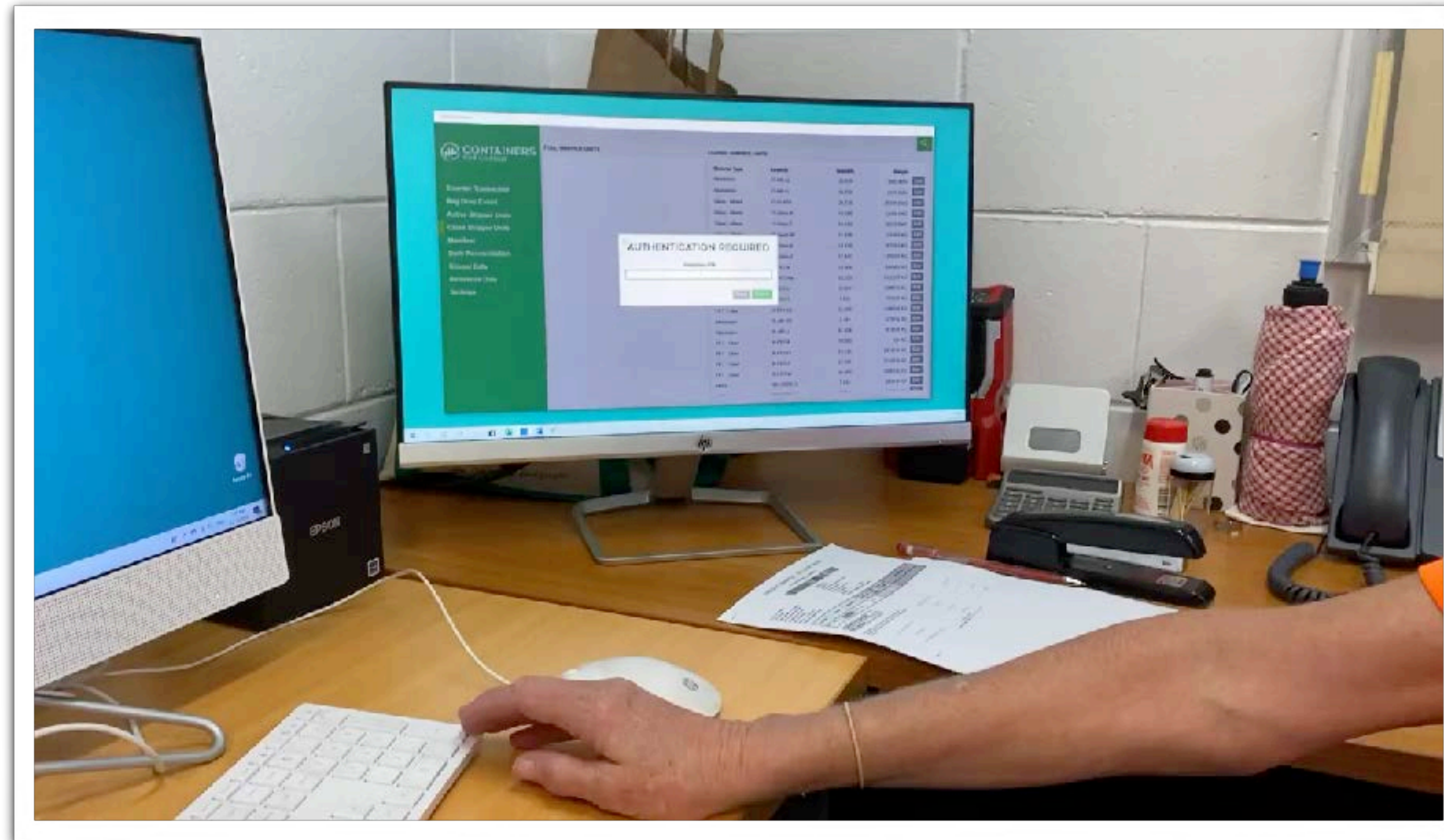
Employee ID code

Low

Medium

Serious

Critical



User has to enter Employee ID more than once sometimes to be able to access the system

- Same PIN needs to be entered multiple times intermittently to access the system

Recommendations

- ✓ Investigate and de-bug
- ✓ Allow user to control frequency of PIN prompt
- ✓ Explore alternative and more accessible methods to identify employees
- ✓ Allow user feedback to report bugs and errors

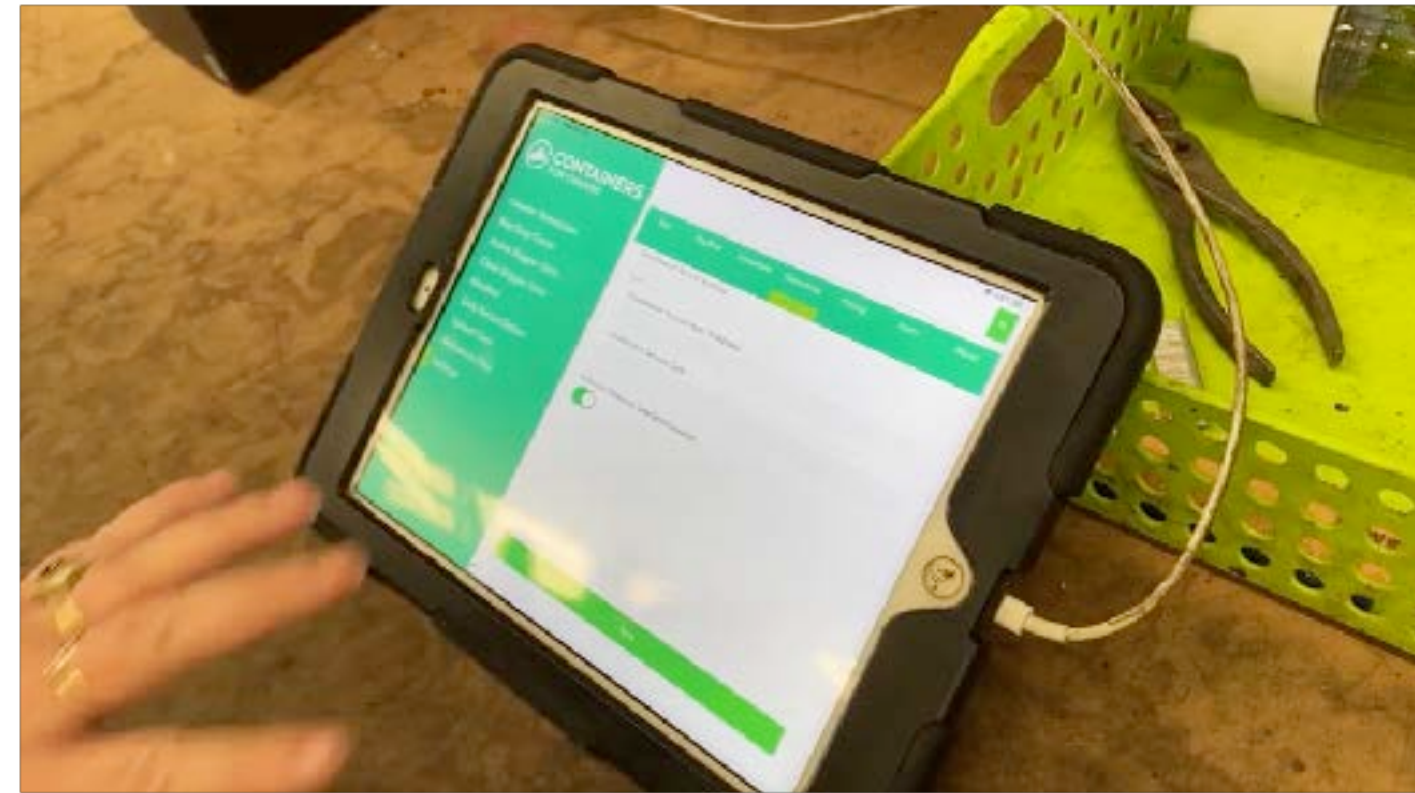
POS set-up

Low

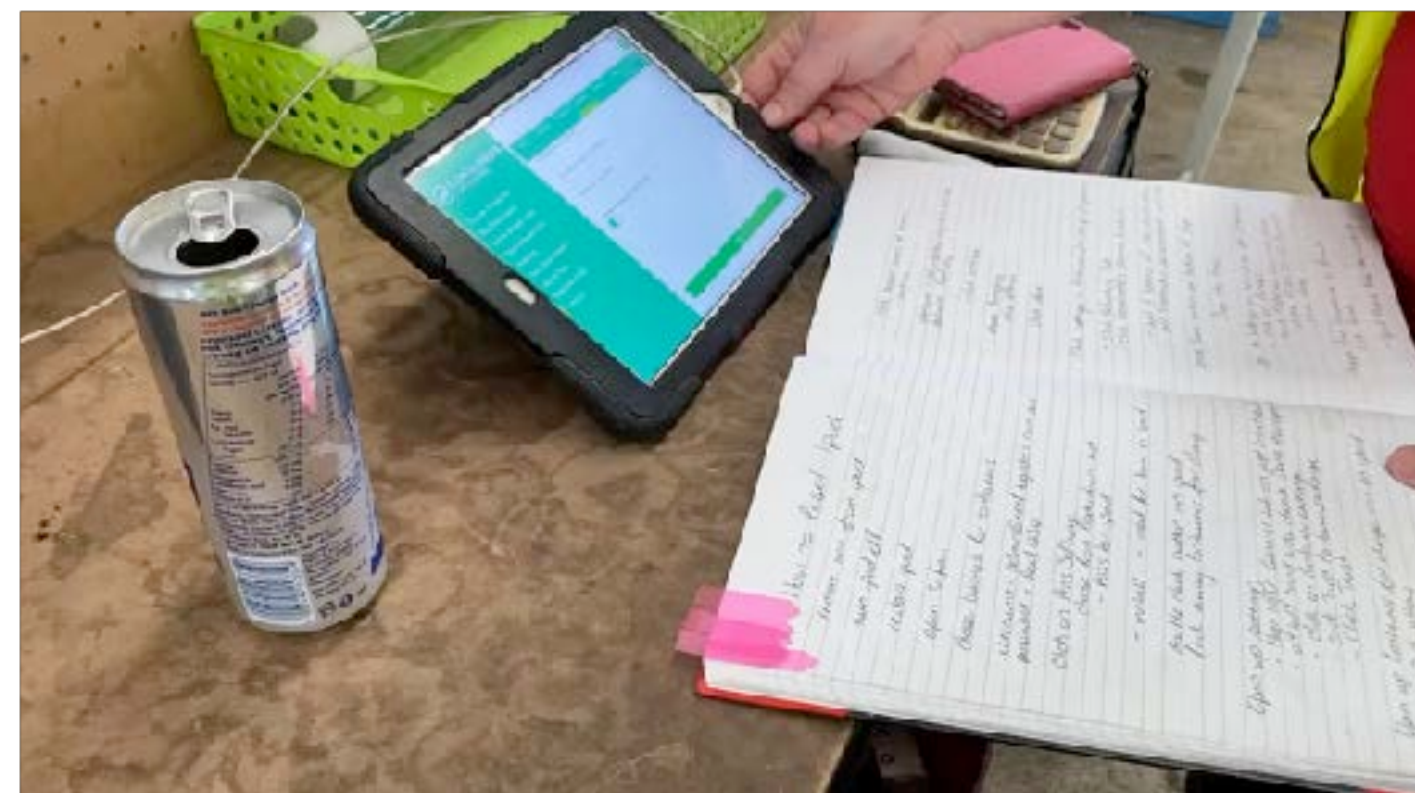
Medium

Serious

Critical



Users miss steps in setting up a new POS on an iPad and has to troubleshoot what is wrong



Users refer to written notes to get Coordination Settings code but needs to confirm an updated code from experts

- When POS resets, customised settings are lost, customer needs to reconfigure Coordination Settings.
- New POS installations do not indicate how to fix errors and sync issues

Recommendations

- ✓ Implement instructions for simple set-up
- ✓ Implement system status to give clues when things go wrong

First impressions

Low

Medium

Serious

Critical

3:11 pm Thu 17 Oct

This is a non-production (User Acceptance Testing) version

CONTAINERS FOR CHANGE

- Counter Transaction
- Bag Drop Count
- Active Shipper Units
- Close Shipper Units
- Manifest
- Daily Reconciliation
- Upload Data
- Reference Data
- Settings

Material Type	Quantity	Amount
Glass - Mixed	0	-
Aluminium	45	\$4.50
PET - Clear	0	-
PET - Colour	87	\$8.70
HDPE	0	-
Liquid Paper Board	0	-
Steel	0	-
Other Materials	0	-
Ineligible Containers	0	-

Total Refund \$13.20

Scheme ID: 10001000
Initials: Brian

Bag Issue: No Issue

Reprint Reset

There is a lot of information and I'm not sure where to look first

● Cognitive load on some pages

Recommendations

- ✓ Minimise the information on each page while still allowing quick and easy access to other pages

P3 finds that the pages are overcrowded with a lot of information fighting for attention

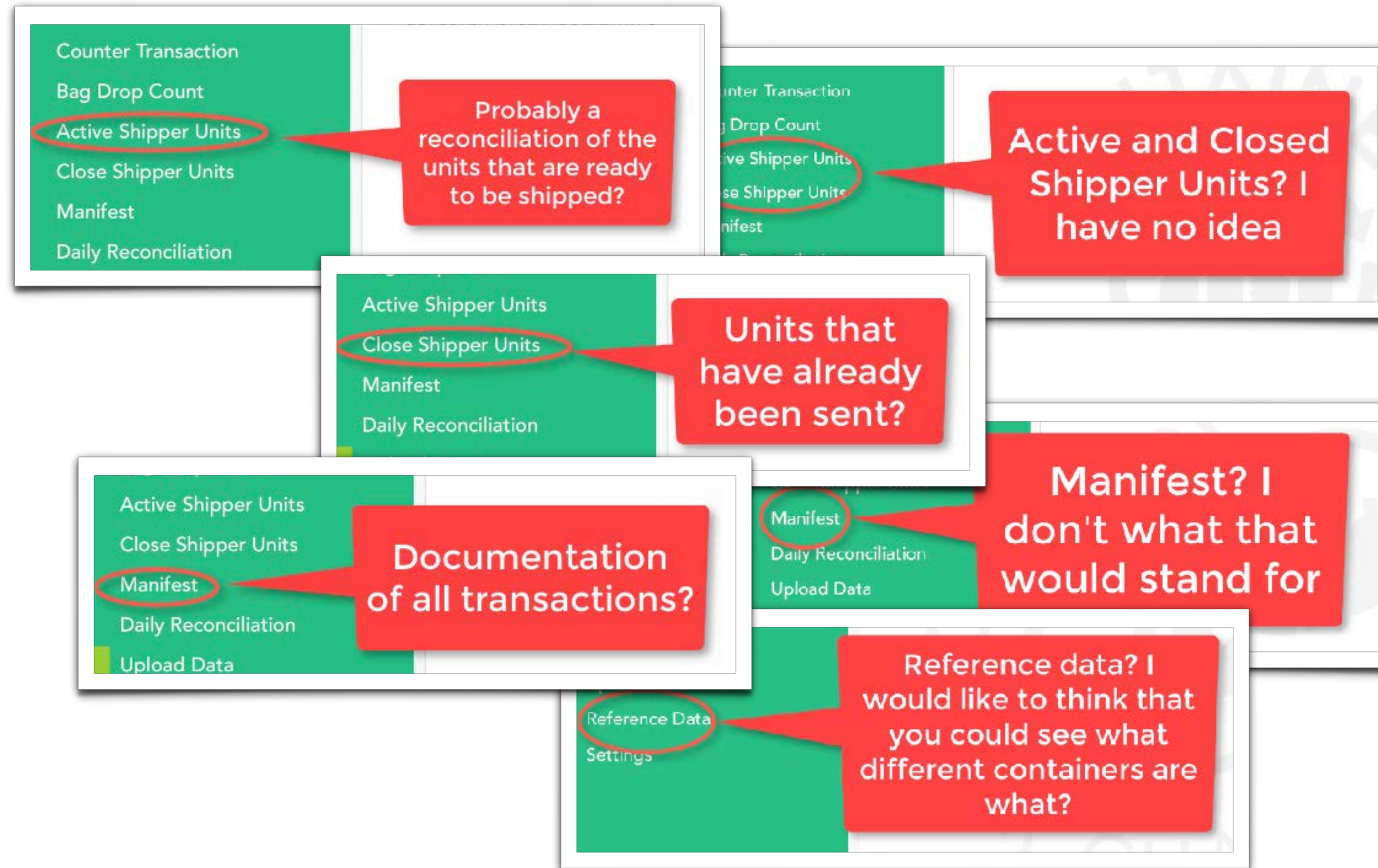
Navigation

Low

Medium

Serious

Critical



- Labels are ambiguous to first time users

Recommendations

- ✓ Re-label navigation items so that they will be understood by first-time users
- ✓ Consider the use of icons with labels which enhances comprehension of functions

First time users were not sure what the meaning of each of the labels were

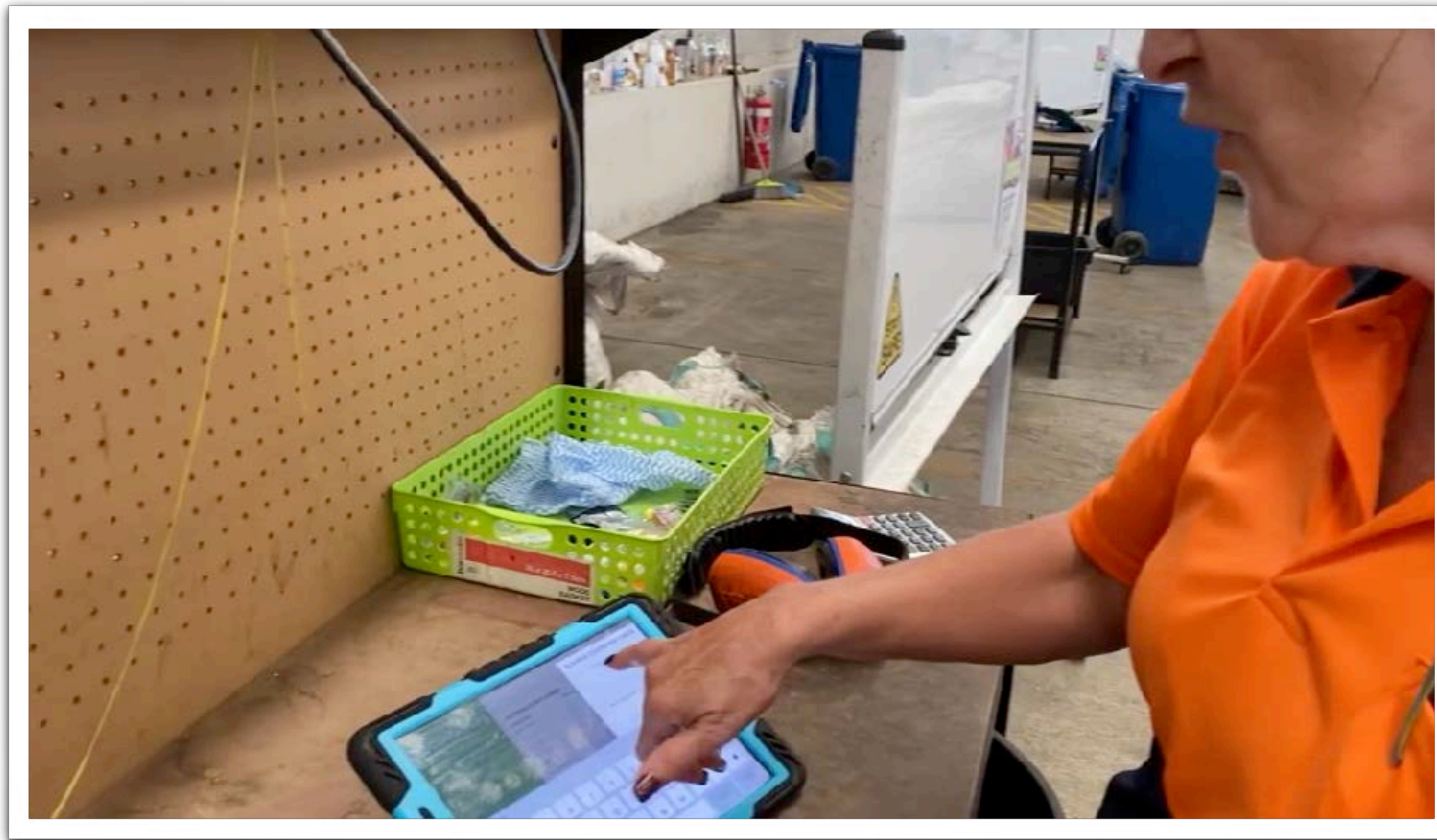
Container eligibility search

Low

Medium

Serious

Critical



Users explain why they only use the barcode in the search

- Search input by product name is overwhelming, confusing and time consuming
- Search by barcode number entry is more accurate but still time consuming
- Search input and auto-complete results are truncated by keyboard height

Recommendations

- ✓ Explore solutions that will allow new users to quickly and easily determine container eligibility.
- ✓ Design Search input and results to maximise results display
- ✓ Make text bigger to increase readability

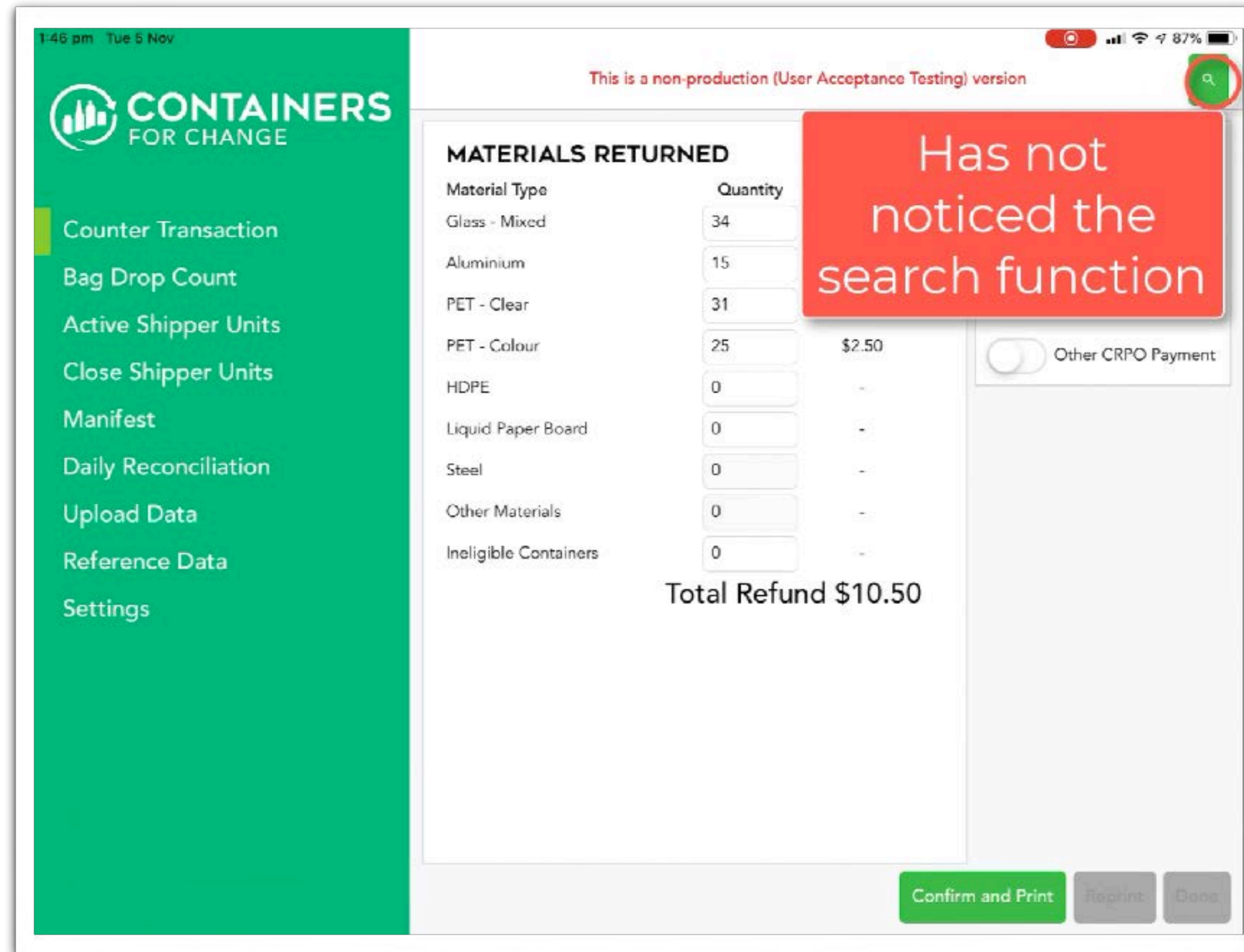
Finding search

Low

Medium

Serious

Critical



- Search function was not perceived
- Search was mistaken for another function (eg. FAQ or global search)

Recommendations

- ✓ Label Search as clearly with function and expose field with example inputs
- ✓ Include reason why some products are ineligible: eg. Not eligible in QLD, WA, etc.

First time users did not notice the search button hidden in the top right

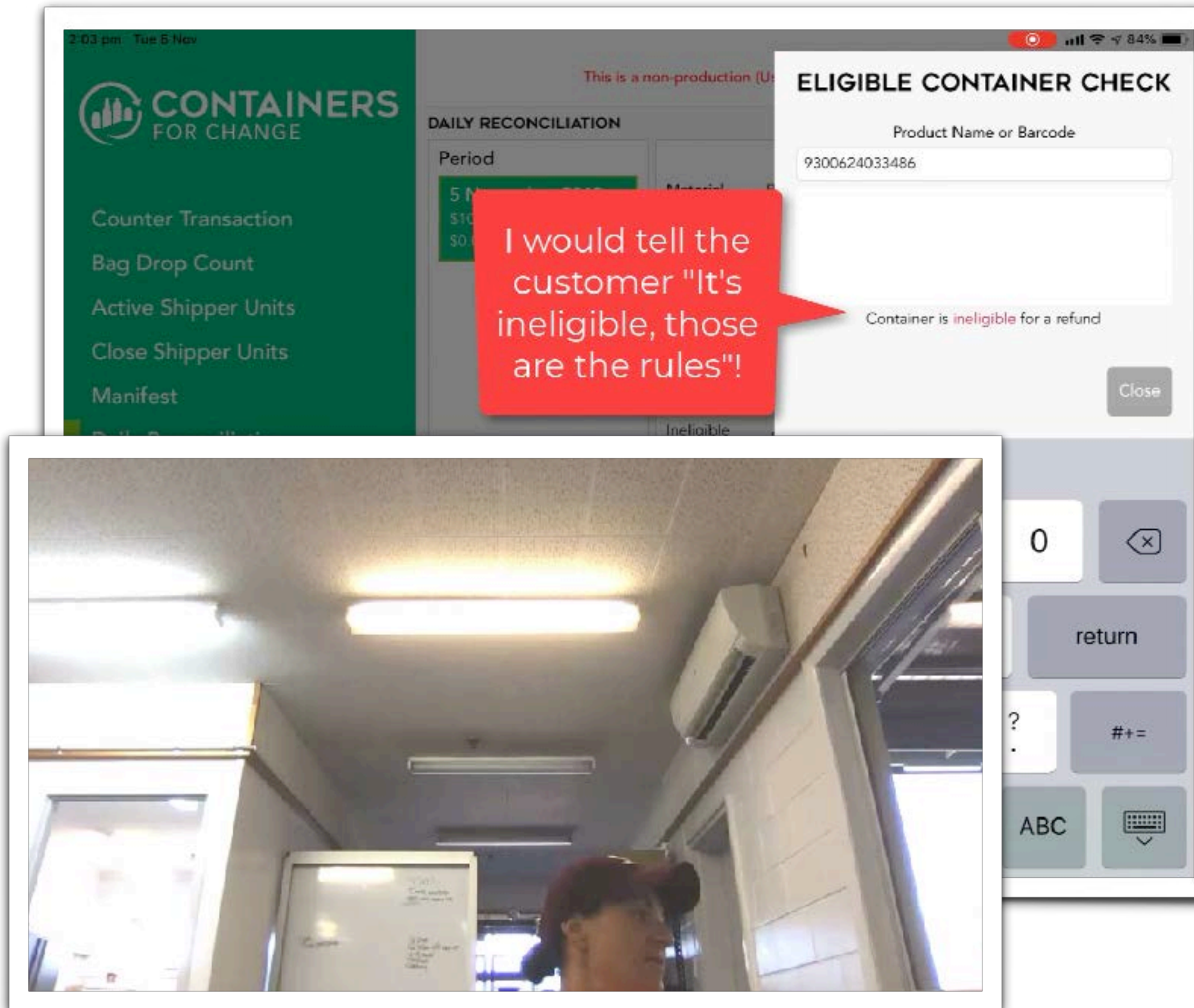
Container eligibility

Low

Medium

Serious

Critical



- Container eligibility is sometimes ambiguous to staff and customers
- Search input will determine eligibility but not container type (eg. PET, HDPE etc)
- This affects trust customers have in the operators and the scheme

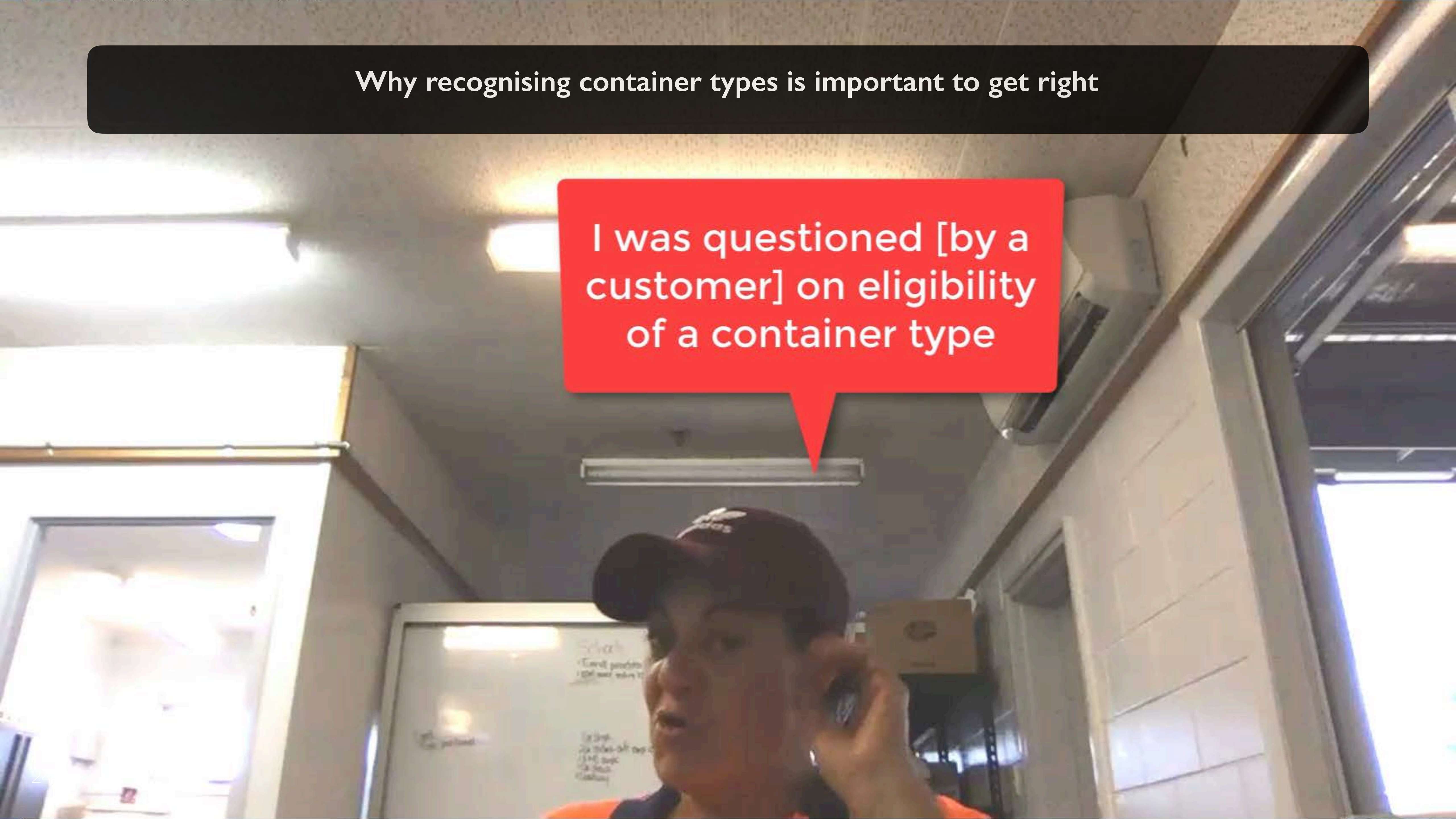
Recommendations

- ✓ Explore methods to make eligibility and type easier and quicker to adopt and use
- ✓ Confirm results with pictures of container types

Container eligibility is often questioned by customers which may cause confusion and distrust.

Why recognising container types is important to get right

I was questioned [by a customer] on eligibility of a container type



Container labels

Low

Medium

Serious

Critical

Material Type	Quantity	Amount
Glass - Mixed	36	\$3.60
Aluminium	15	\$1.50
PET - Clear	0	
PET - Colour	0	
HDPE	0	
Liquid Paper Board	0	
Steel	0	-
Other Materials	0	-
Ineligible Containers	0	-

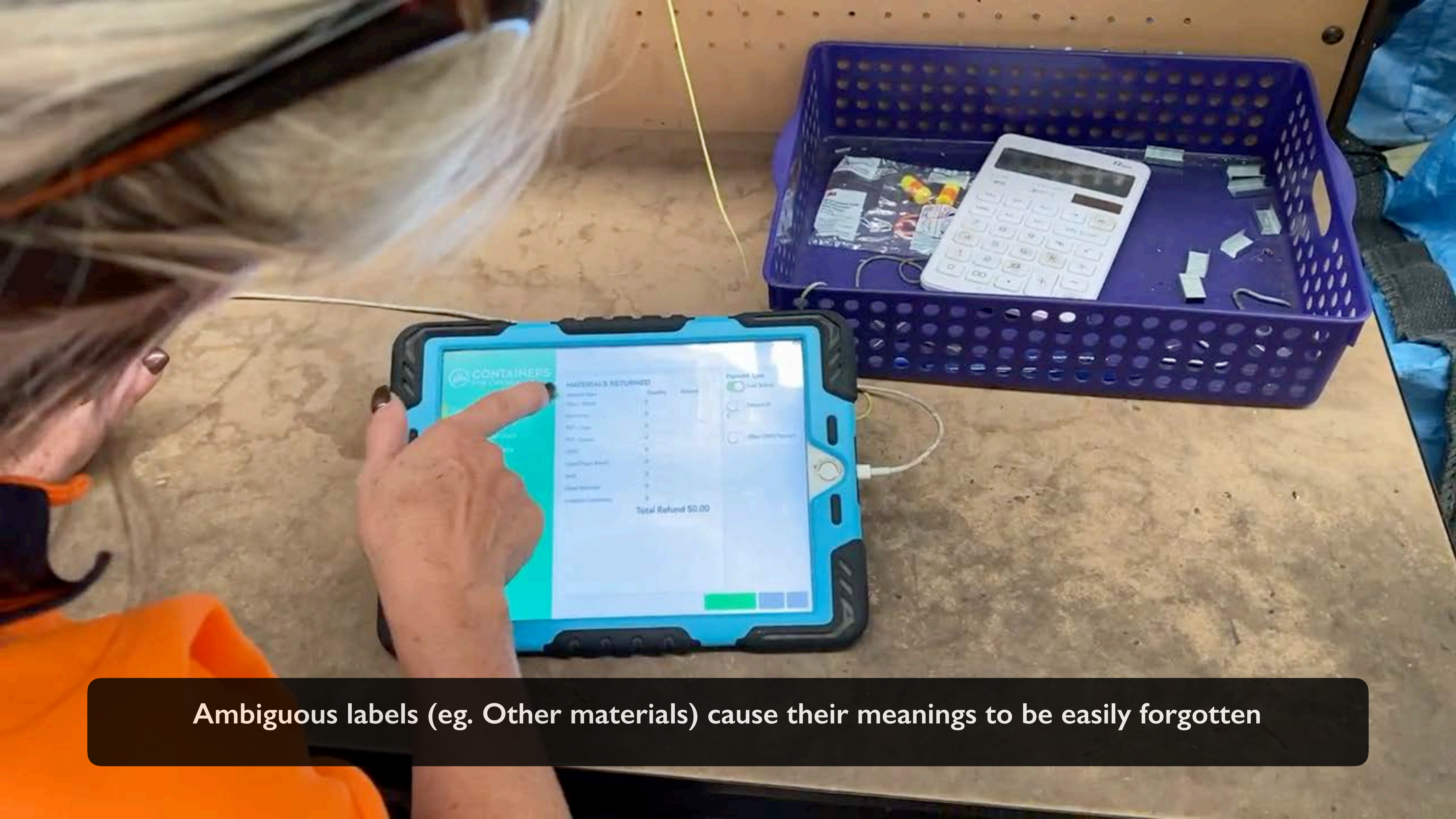
Total Refund \$5.10

- Labels for container fields are either confusing or ambiguous for first time users

Recommendations

- ✓ Provide pictures and / or intuitive labels for each field label

P2 finds some of the labels ambiguous (Other materials) or confusing (PET, HDPE, Liquid Paper Board)



Ambiguous labels (eg. Other materials) cause their meanings to be easily forgotten

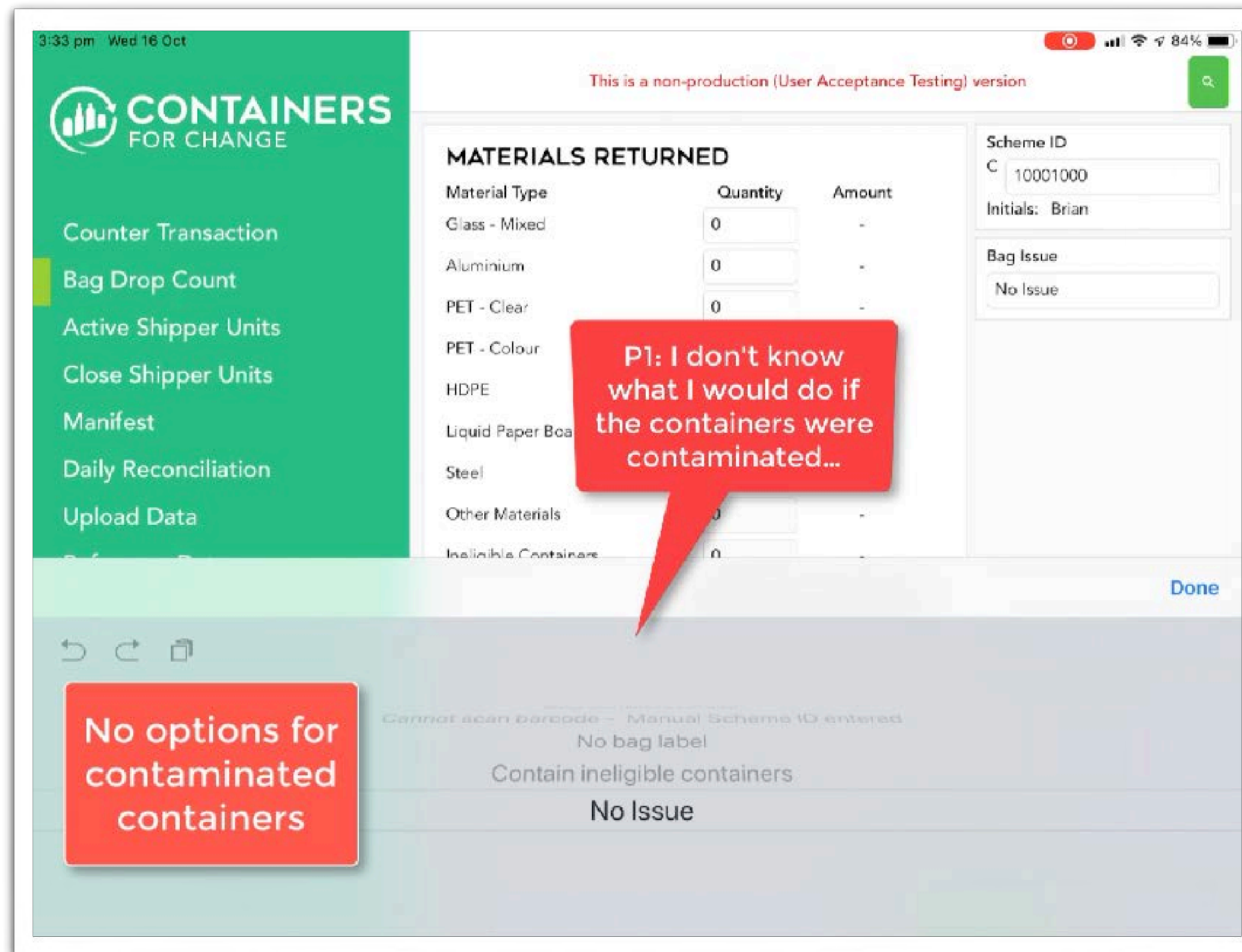
Contaminated containers

Low

Medium

Serious

Critical



- Users may not know what to do if containers are contaminated or how to report other issues

Recommendations

- ✓ Implement "Other issue" and allow a free form field to ensure users can input why some containers cannot be refunded.

P1 does not know how to report contaminated containers

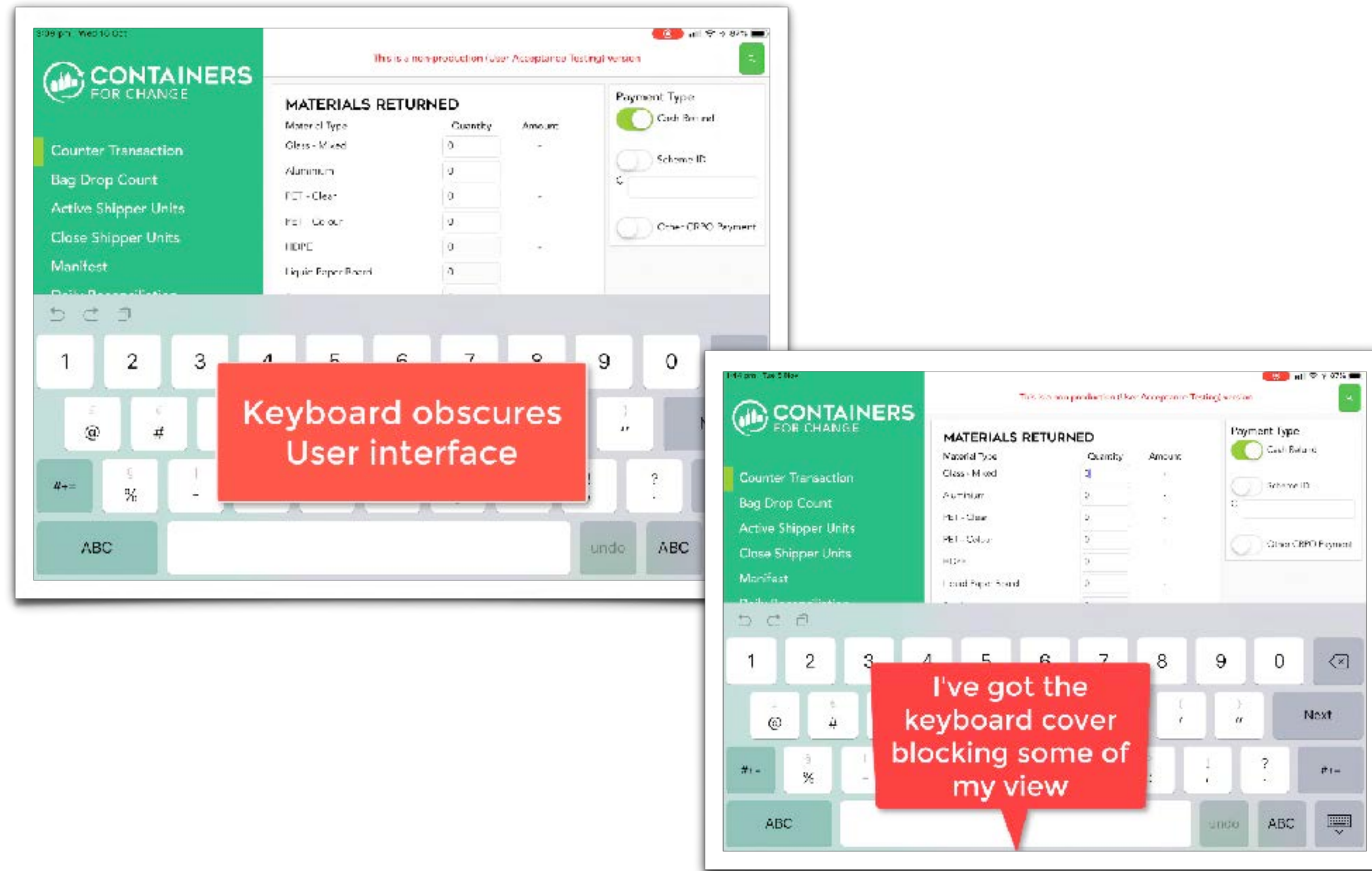
User interface obscured

Low

Medium

Serious

Critical



- iOS keyboard obscures form inputs
- There are no obvious controls to scroll down
- Some users will miss the keyboard “minimise” control

Recommendations

- ✓ Make controls minimal and numeric only
- ✓ Allow all forms to be displayed when inputting data

People were entering values but could not see the forms underneath the keyboard

Forms disabled

Low

Medium

Serious

Critical

This is a non-production (User Acceptance Testing) version

Material Type	Quantity	Amount
Glass - Mixed	34	\$3.40
Aluminum	15	\$1.50
PET - Clear	20	\$2.00
PET - Colour	25	\$2.50
HDPE	0	-
Liquid Paper Board	0	-
Steel	0	-
Other Materials	0	-
Ineligible Containers	0	-

Total Refund \$10.20

Payment Type: Cash Refund, Scheme ID, Other CRPO Payment

Confirm and Print

P1: I cannot actually click into it...

This is a non-production (User Acceptance Testing) version

Material Type	Quantity	Amount
Mixed	36	\$3.60
Alum	15	\$1.50
Clear	56	\$5.60
Colour	0	-
Paper Board	0	-
Materials	0	-
Ineligible Containers	0	-

Total Refund \$10.70

Payment Type: Cash Refund, Scheme ID, Other CRPO Payment

Confirm and Print

Oh I can't click on it either...

This is a non-production (User Acceptance Testing) version

Material Type	Quantity	Amount
PET - Colour	25	\$2.50
HDPE	0	-
Liquid Paper Board	0	-
Steel	0	-
Other Materials	0	-
Ineligible Containers	2	-

Total Refund \$10.50

Payment Type: Other CRPO Payment

Confirm and Print

User has not noticed disabled state and keeps trying to enter values

Users try to enter values into disabled form field

- Disabled forms (locked) appearance is that they are editable
- There is no feedback as to why fields are disabled

Recommendations

- ✓ Make disabled forms appear locked
- ✓ Implement tooltips and / or notifications to help people understand why forms are disabled (eg. Shipper unit needs to be made active)

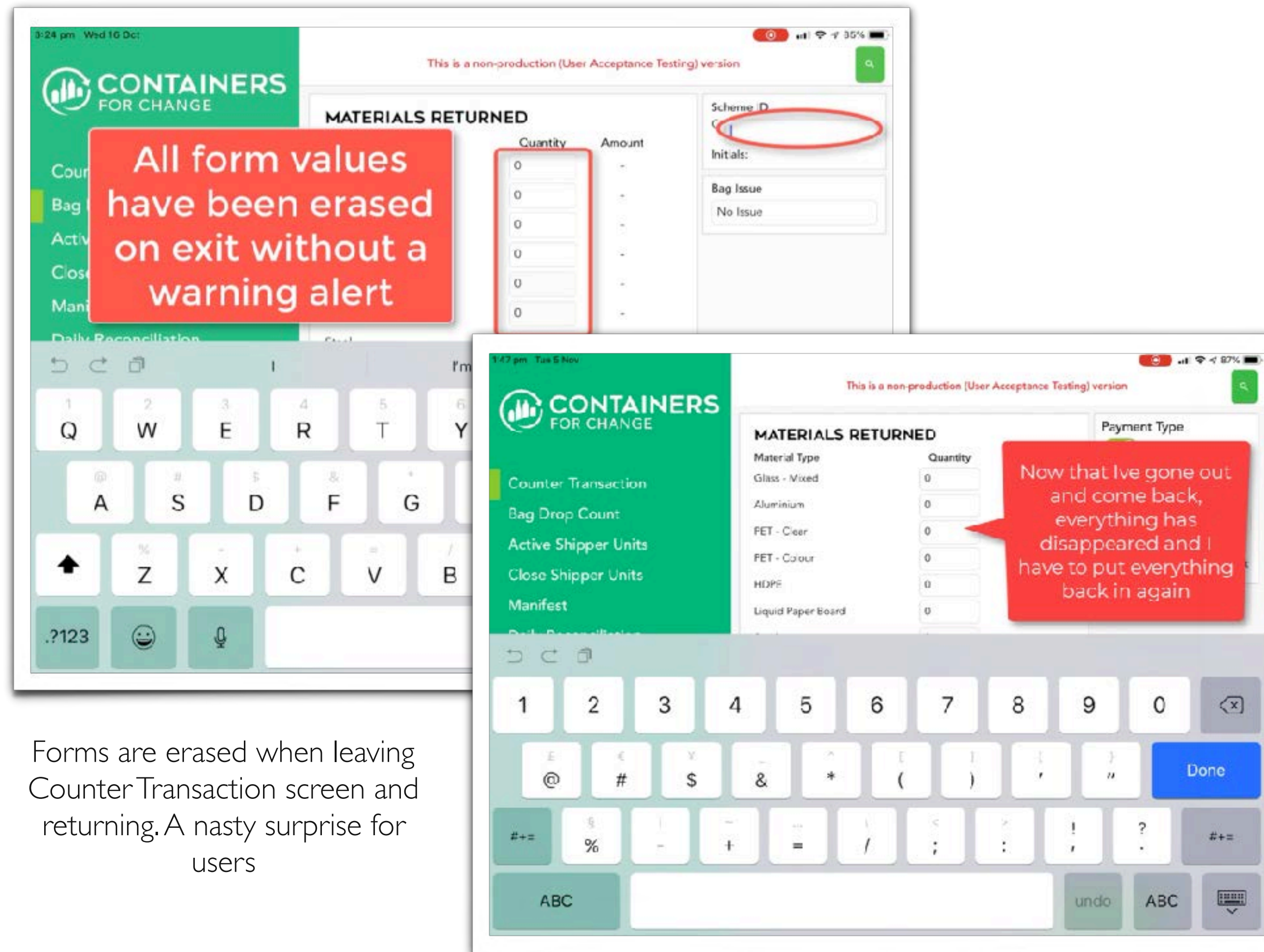
Form input loss

Low

Medium

Serious

Critical



Forms are erased when leaving Counter Transaction screen and returning. A nasty surprise for users

- Form inputs are erased upon screen exit without warning

Recommendations

- ✓ Allow autosave on screen exit
- ✓ Implement user alerts before data input is about to be lost

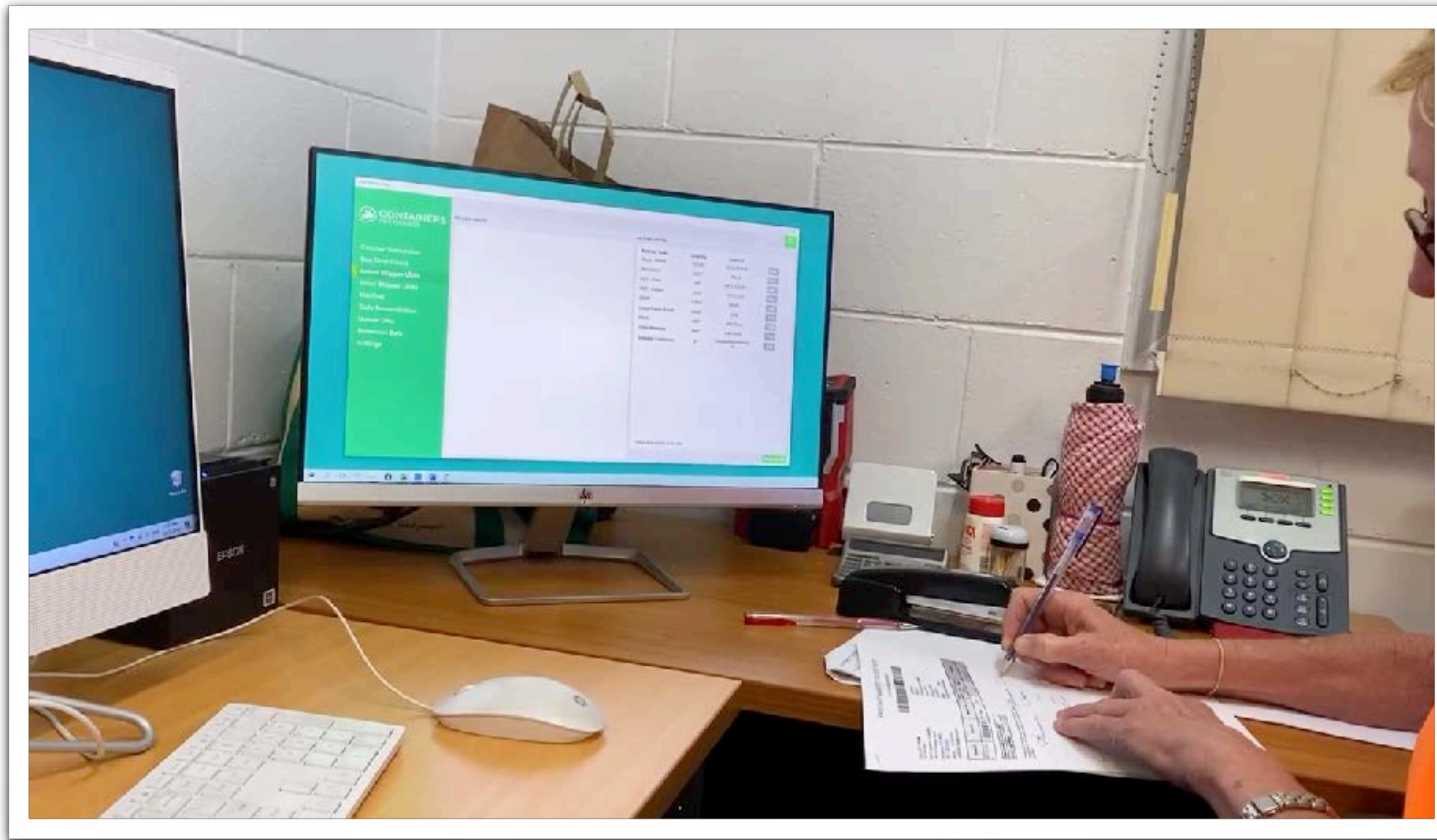
Performance

Low

Medium

Serious

Critical



User's biggest frustration is the performance of the systems

- Speed of pulling data is slow and frustrating for users
- People do not know if it is normal or if the system / operating system needs resetting

Recommendations

- ✓ Investigate and optimise performance
- ✓ Implement feedback progress bars for system delays
- ✓ Implement user feedback channels to report performance issues

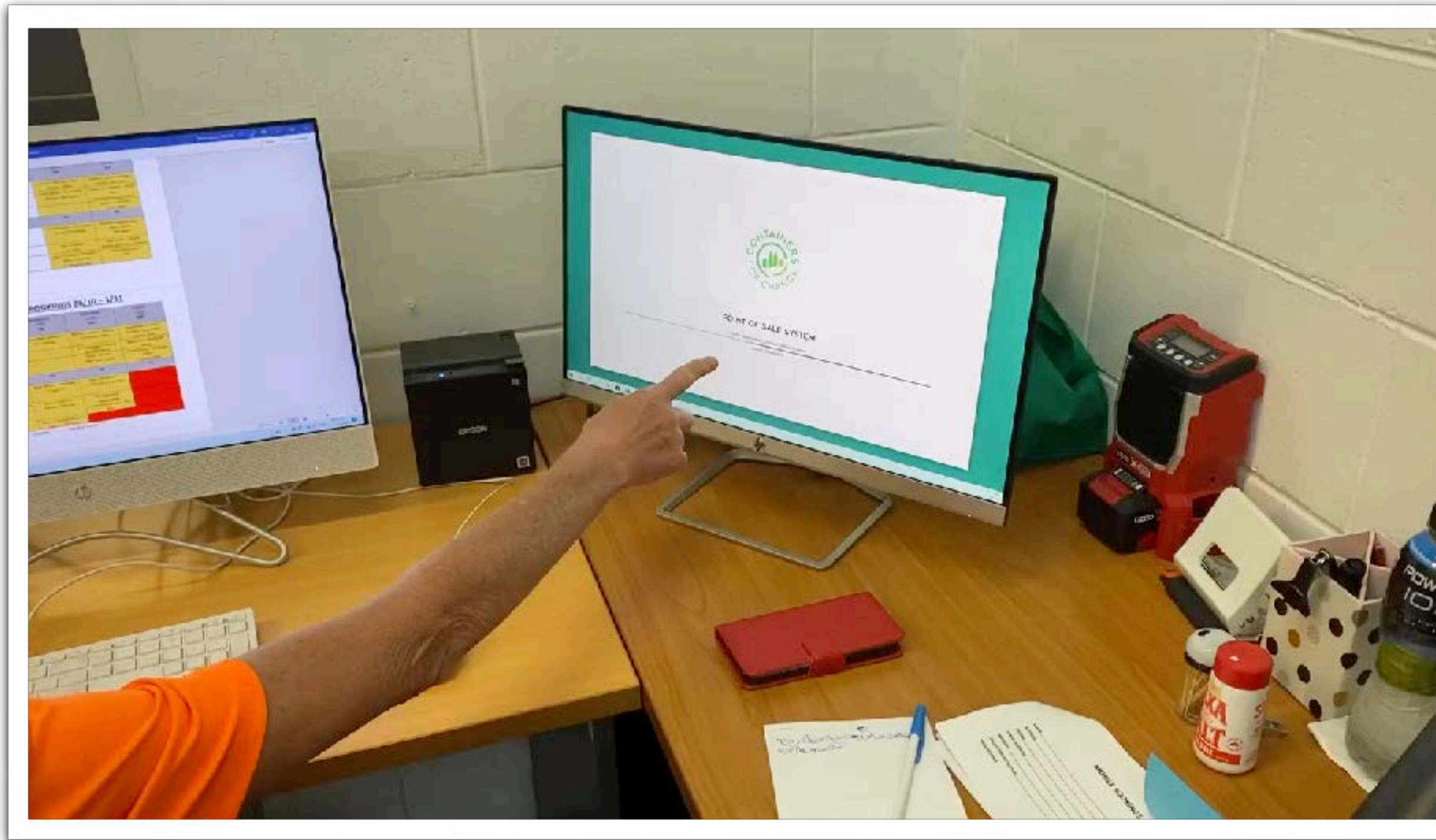
Desktop App Instability

Low

Medium

Serious

Critical



Windows 10 app crashing and attempts to resolve the problem

- POS app crashes do not indicate any support options or diagnostics for user

Recommendations

- ✓ Investigate and de-bug
- ✓ Allow user feedback to report bugs and errors

iOS App Instability

Low

Medium

Serious

Critical



User login action with persistent POS app crashes.



Persistent crashes forces users to use another POS

- POS app crashes become more prevalent as the day progresses
- Users report it happens from 3 to 5 times every day

Recommendations

- ✓ Implement error alerts on time outs
- ✓ Include actions a user can take to resolve
- ✓ Investigate and de-bug errors
- ✓ Allow user feedback to report bugs and errors

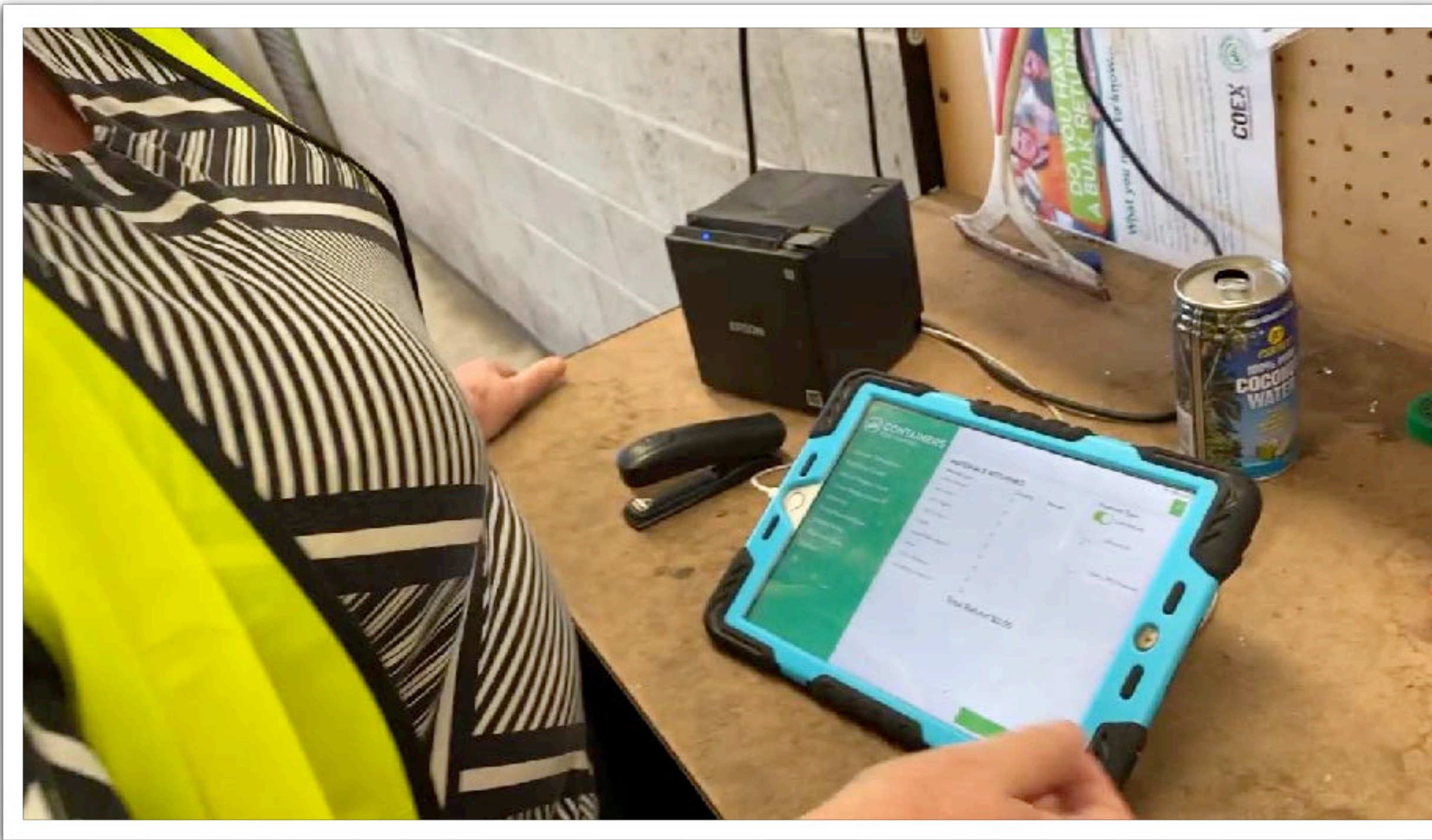
Customer Identification

Low

Medium

Serious

Critical



Why customers prefer cash and what happens when refunds are over certain amounts

- Drivers ID needed at \$82.50+
- Refund Declaration needed at \$150+
- Identification is invasive to customers who are on Centrelink benefits.
- Reef Logistics modified their stat dec to only capture suburb instead of full address

Recommendations

- ✓ Explore benefits and communications strategies to promote benefits of Scheme ID usage to both customers and CRPO staff.

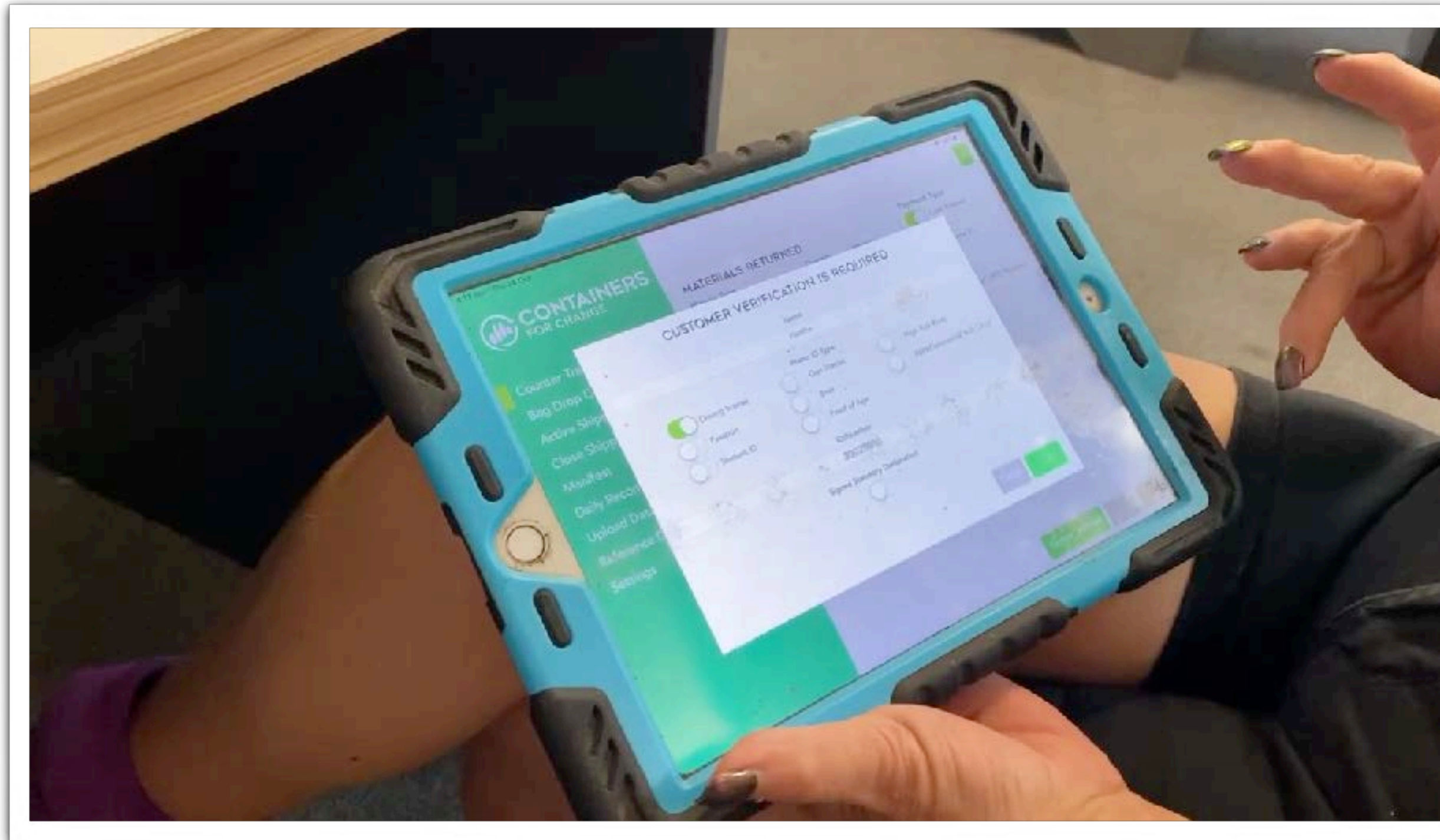
Refund Declaration

Low

Medium

Serious

Critical



What happens when a transaction reaches \$150+ and the user needs to input a Refund Declaration toggle

- There is no indication that a user needs to input the “Signed Refund Declaration” toggle in order to continue
- iPad keypad obscures the “Signed Refund Declaration” toggle

Recommendations

- ✓ Display “Signed Refund Declaration” toggle as mandatory with alert message if “Continue” button is tapped.
- ✓ Ensure controls are not obscured by device UI elements (eg. iPad keypad)

POS Reset

Low

Medium

Serious

Critical



Users attempting to reset POS



- POS tended to crash 3-4 times per day (more in the afternoons)
- Gloves needed removal for swiping and complex interaction gestures
- People did not know how to restart the POS app

Recommendations

- ✓ Investigate and de-bug stability issues
- ✓ Implement metrics to capture frequency of crashes
- ✓ Tips for how to reset app

Replace a shipper unit

Low

Medium

Serious

Critical



- First time users struggled to understand how to replace a shipper unit

Recommendations

- ✓ Make steps intuitive for replacing units
- ✓ Provide clear information to guide users to understand functions without having reference a manual or written notes.

First-time users struggled to understand what the labels meant and the functions assigned to actions would do

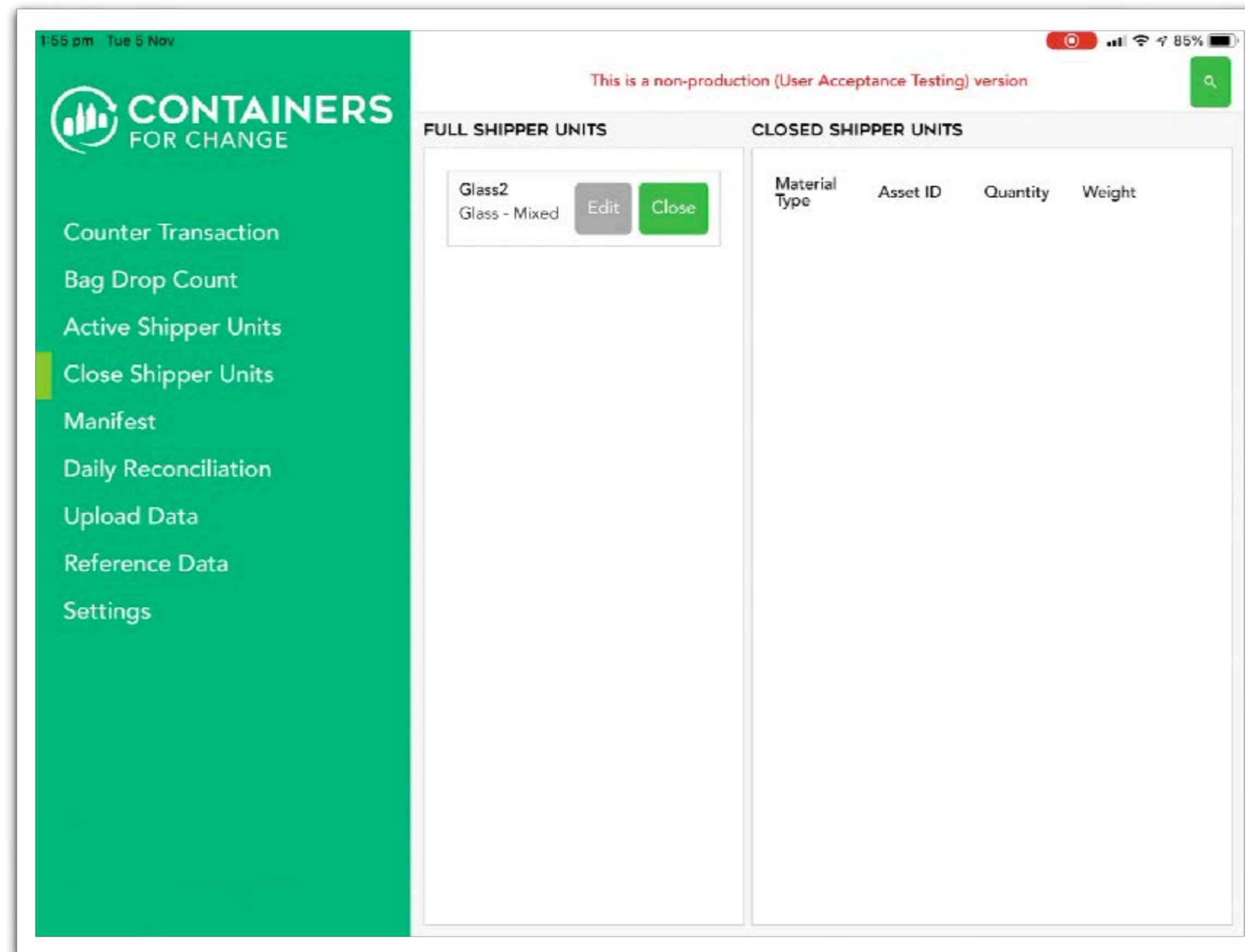
Close a shipper unit

Low

Medium

Serious

Critical



- First time users struggled to understand how to close a shipper unit

Recommendations

- ✓ Make steps intuitive for replacing units
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First-time users struggled to understand what the labels meant

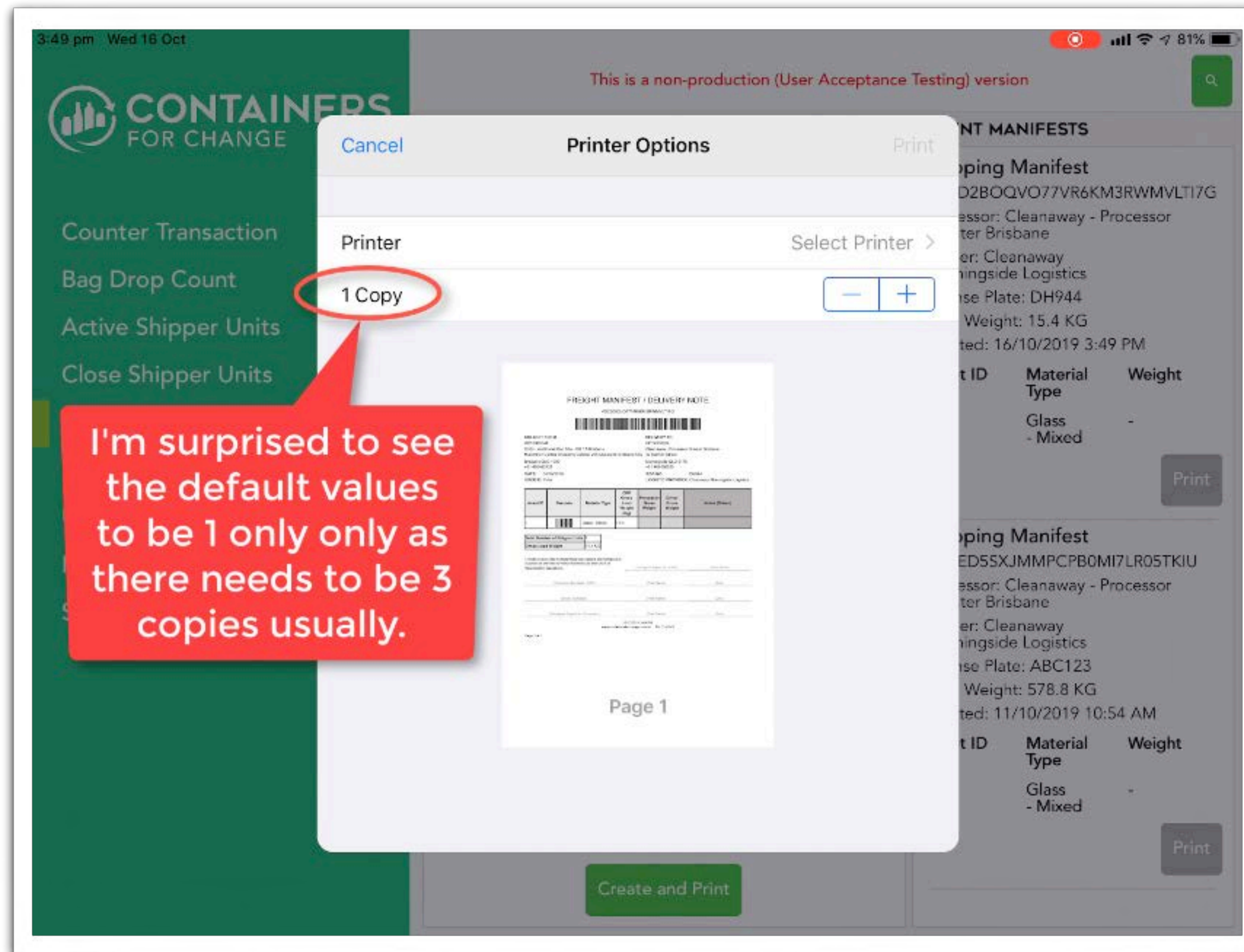
Transport manifest

Low

Medium

Serious

Critical



- Users have to print 3 x copies

Recommendations

- ✓ Make 3x copies the default value
- ✓ Allow user feedback to report bugs and errors

PI printing a Transport Manifest

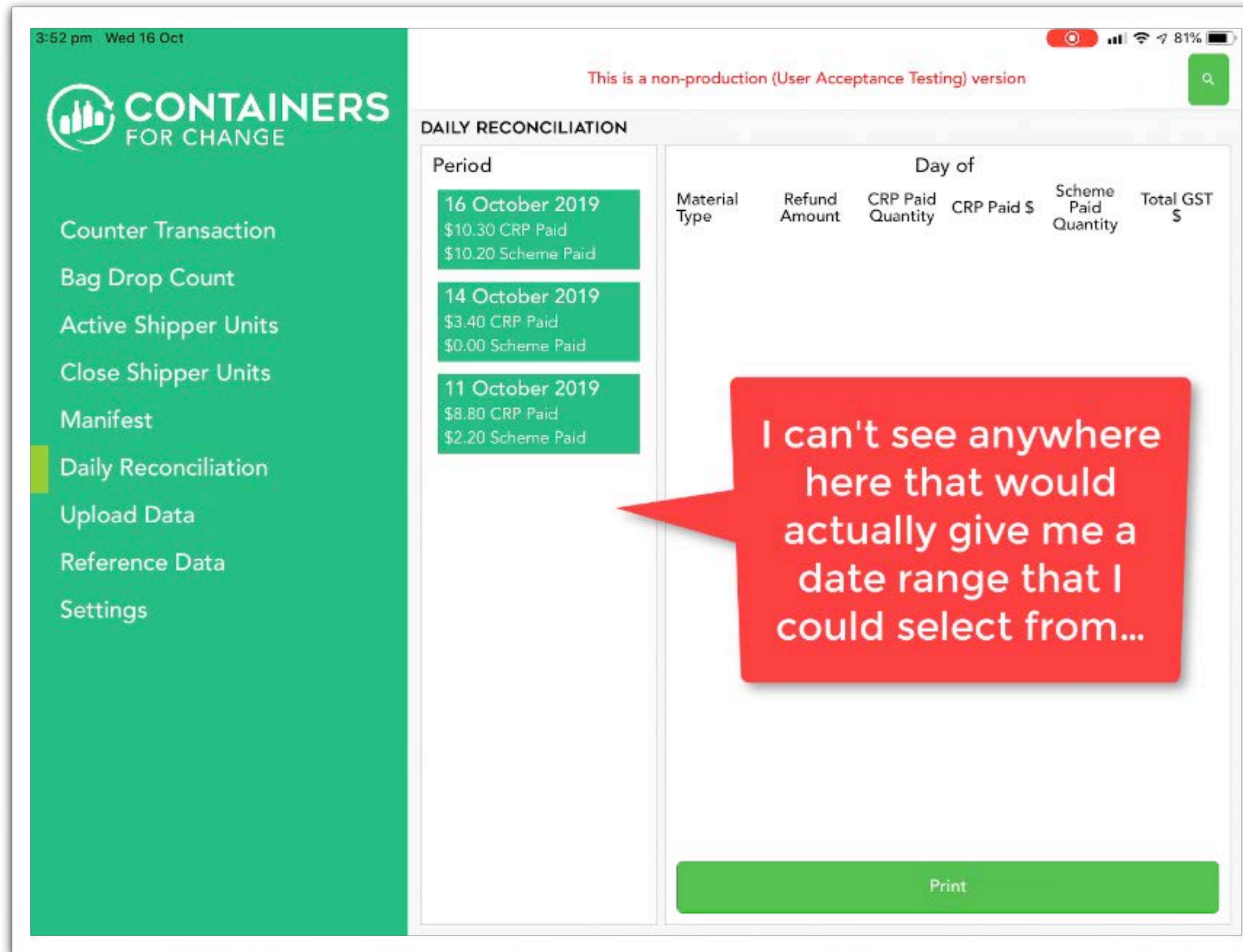
Daily Reconciliation

Low

Medium

Serious

Critical



- No controls to see records over a month old

Recommendations

- ✓ Explore user needs for this

PI cannot find any way to see records from last month

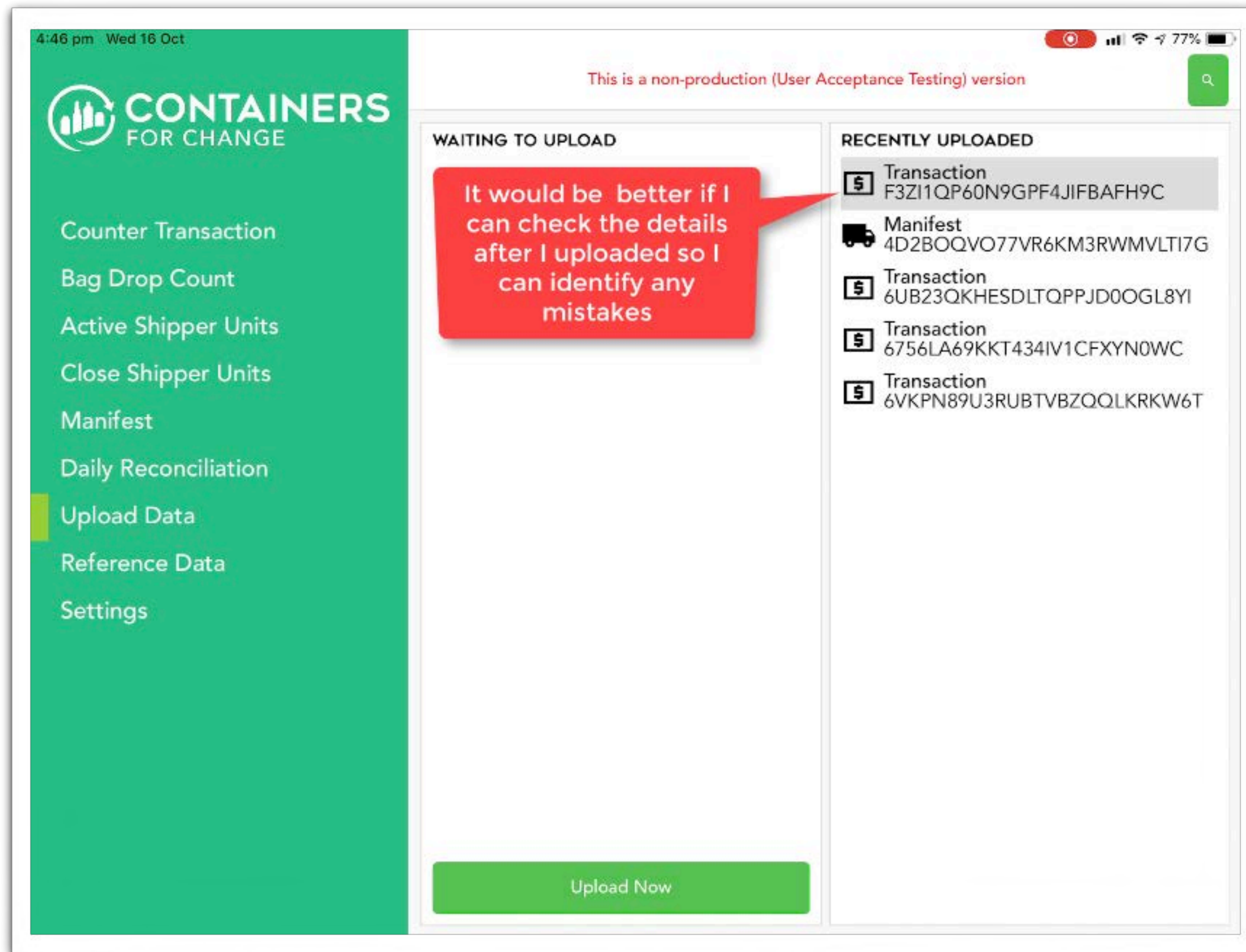
Data upload

Low

Medium

Serious

Critical



- Some users like to access details of data uploaded, eg Material type, quantity and amount

Recommendations

- ✓ Explore user needs for this

P2 would like to see details of uploaded data

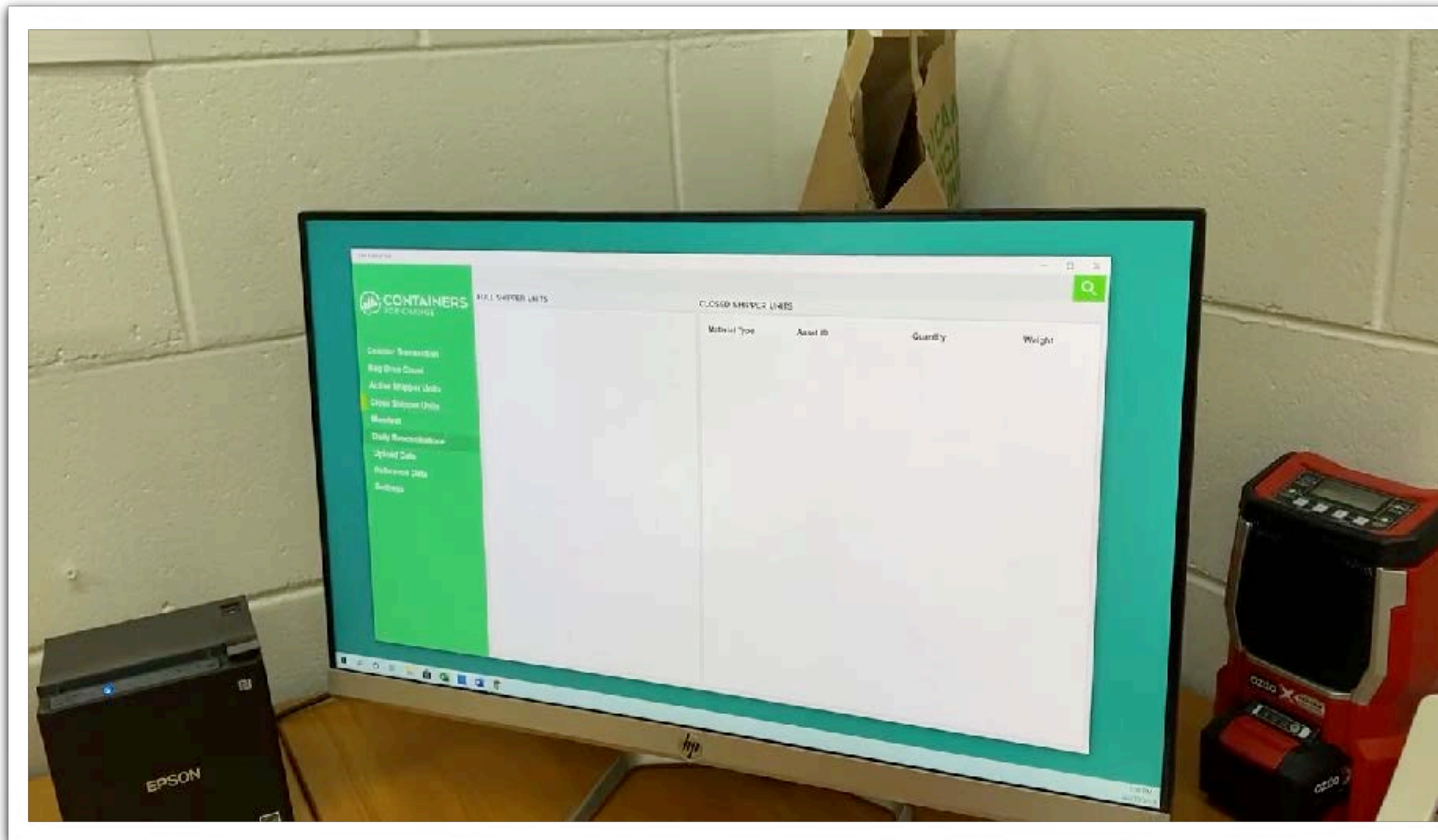
Data re-appearance

Low

Medium

Serious

Critical



User demonstrates how closed shipping data keeps re-appearing throughout the next few days

- Data that was deleted, kept reappearing in the few days following.

Recommendations

- ✓ Investigate and de-bug
- ✓ Allow user feedback to report bugs and errors
- ✓ Implement Reset Coordination Services function in the event that there is a data corruption to purge data.

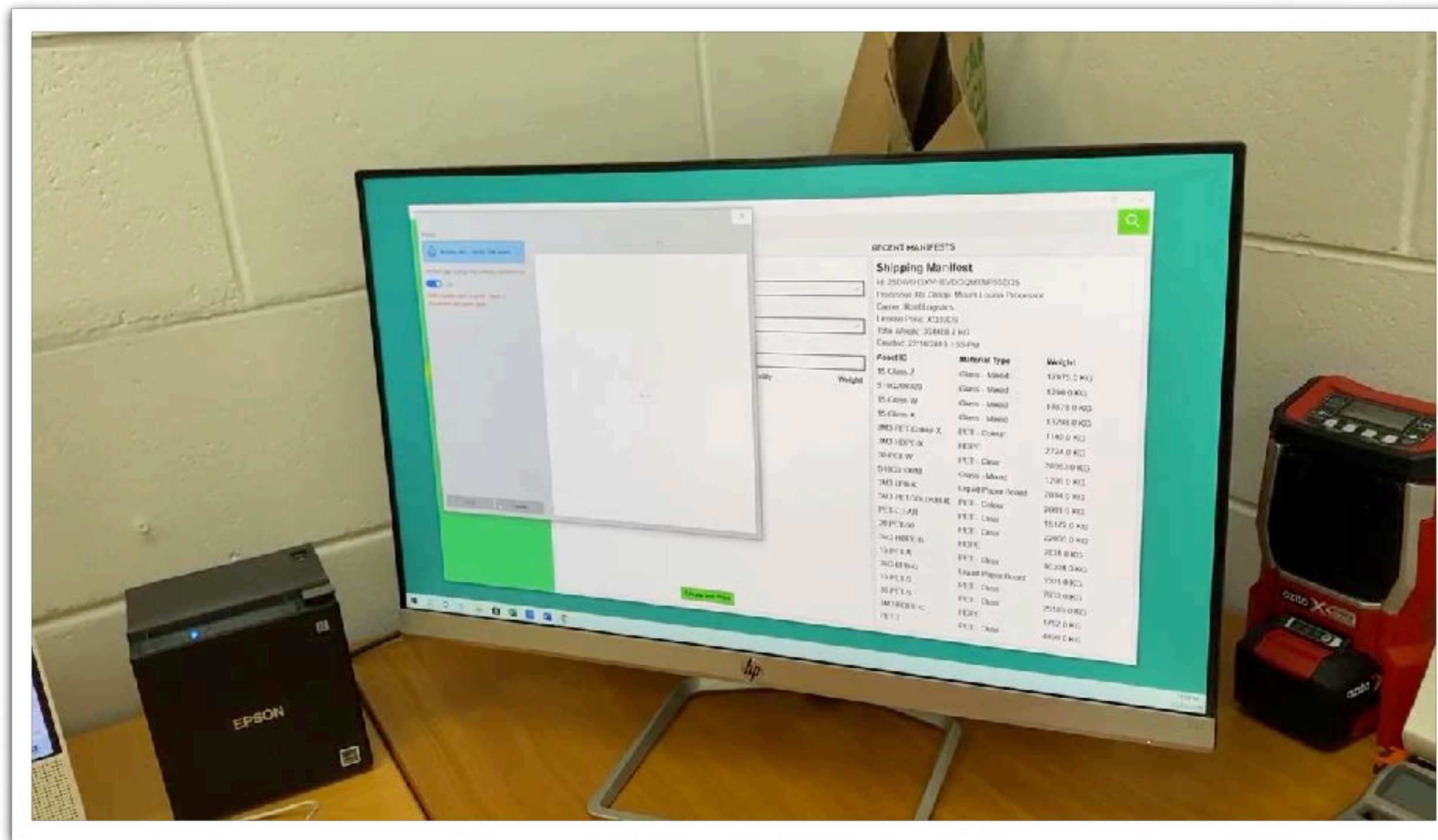
Manifest printing

Low

Medium

Serious

Critical



Demonstration of the Manifest printing bug

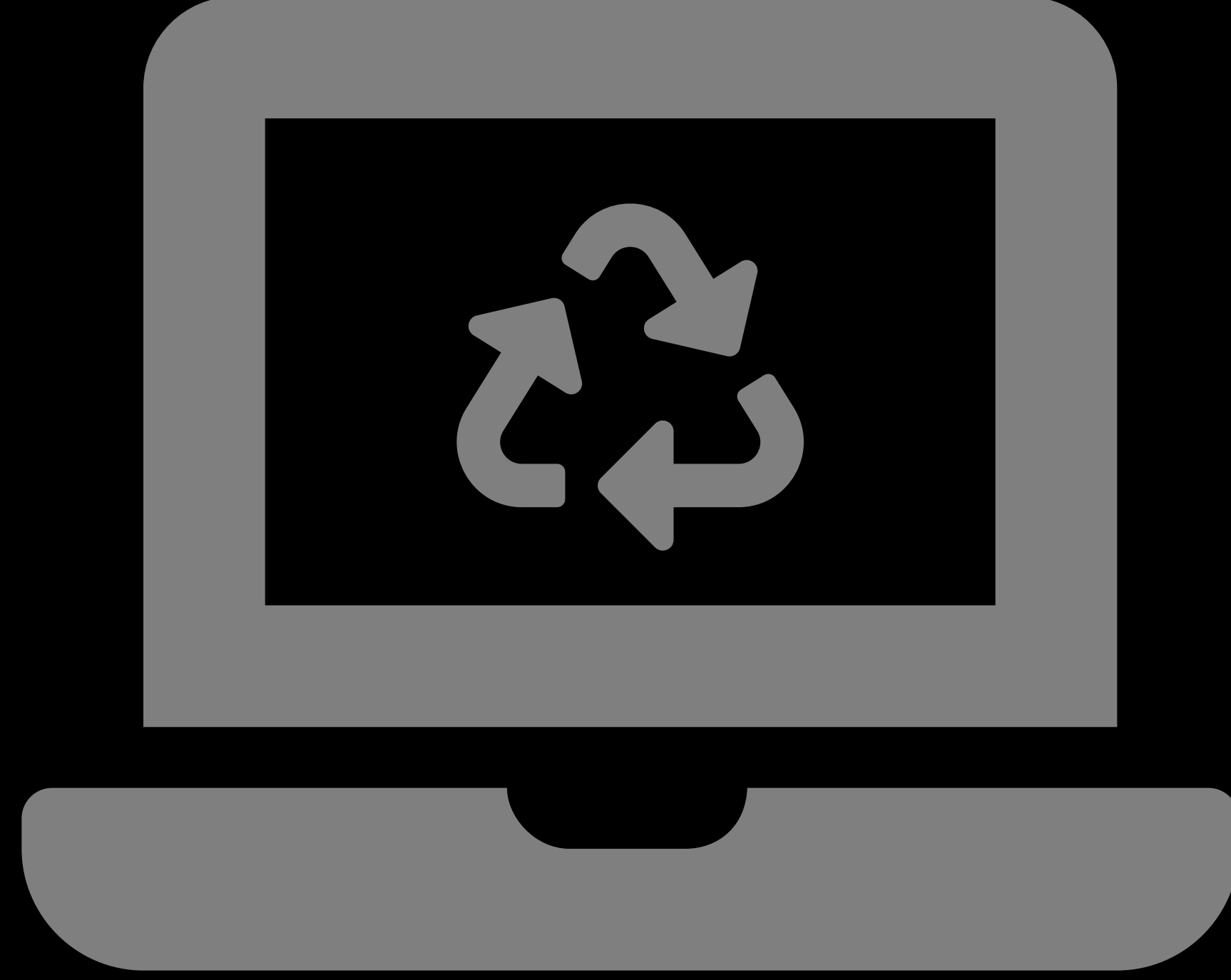
- Primary “Create and print” function fails
- Workaround is to reprint using the Recent Manifest print button

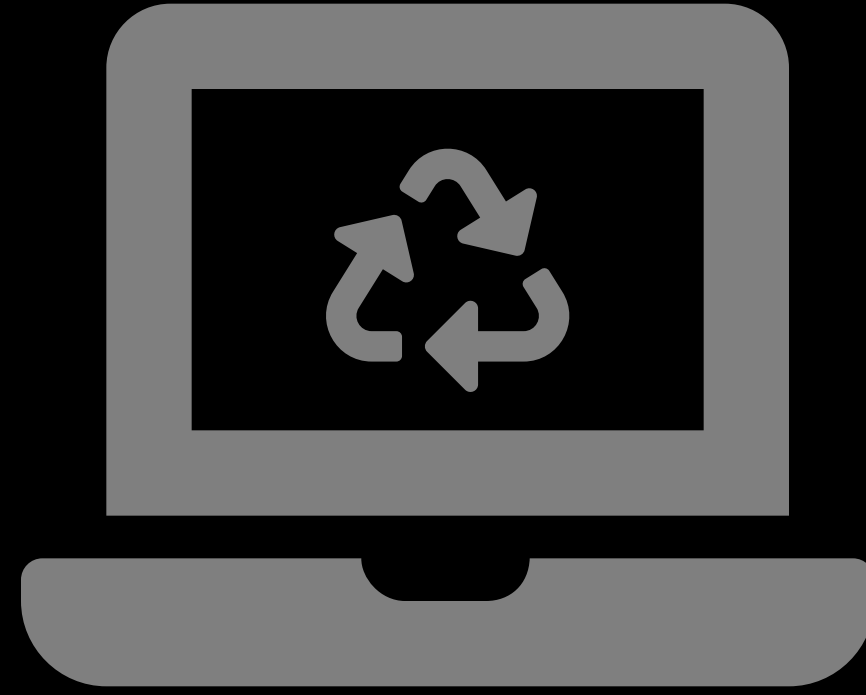
Recommendations

- ✓ Investigate and de-bug
- ✓ Allow user feedback to report bugs and errors



CRP Portal



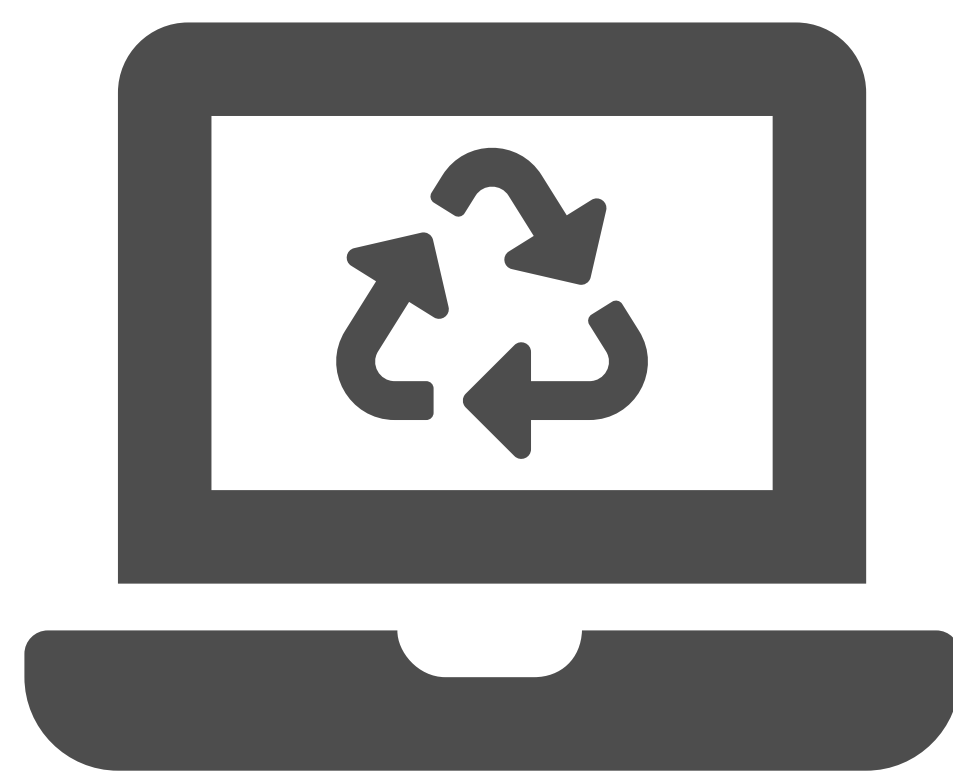


CRP Portal Task completion

Completion rates are the fundamental usability metric:

A binary measure of pass and fail (coded as 1 or 0) provides a simple metric of success. If users cannot complete a task, not much else matters with respect to usability or utility.

CRP Portal. Task completion score

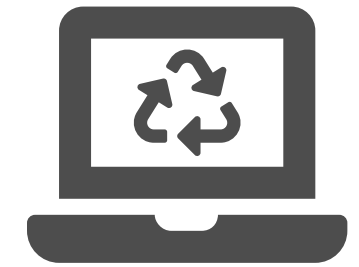


53%

78% is the average from a database of almost 1200 software and website tasks across several products and domains.



CRP Portal tasks



1. Submit claim

25% (1 of 3 participants succeeded)



2. Check claims

67% (2 of 3 participants succeeded)



3. Update stock

50% (1 of 3 participants succeeded)



4. Update POS

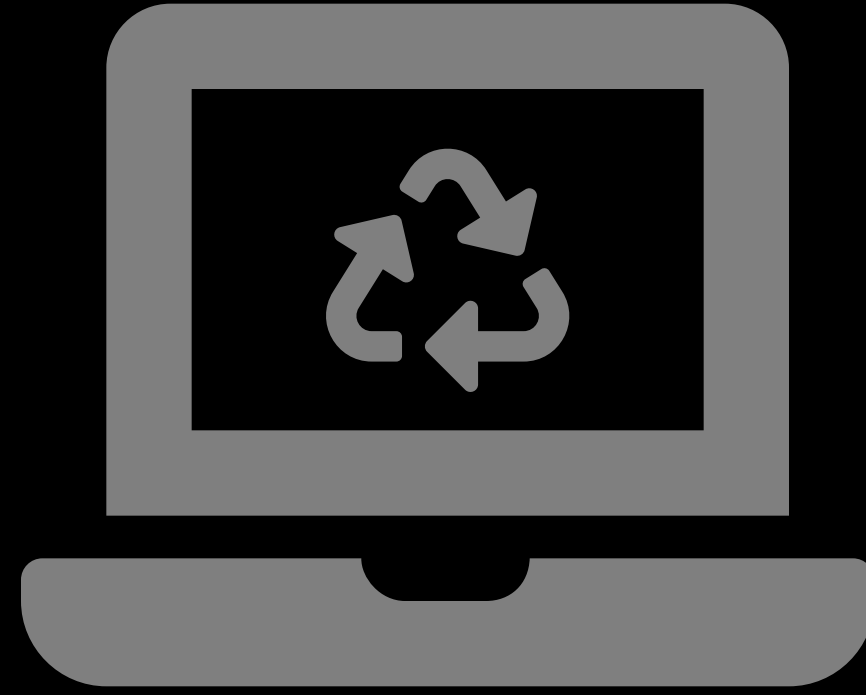
25% (1 of 3 participants succeeded)



5. Add employee

100% (3 of 3 participants succeeded)

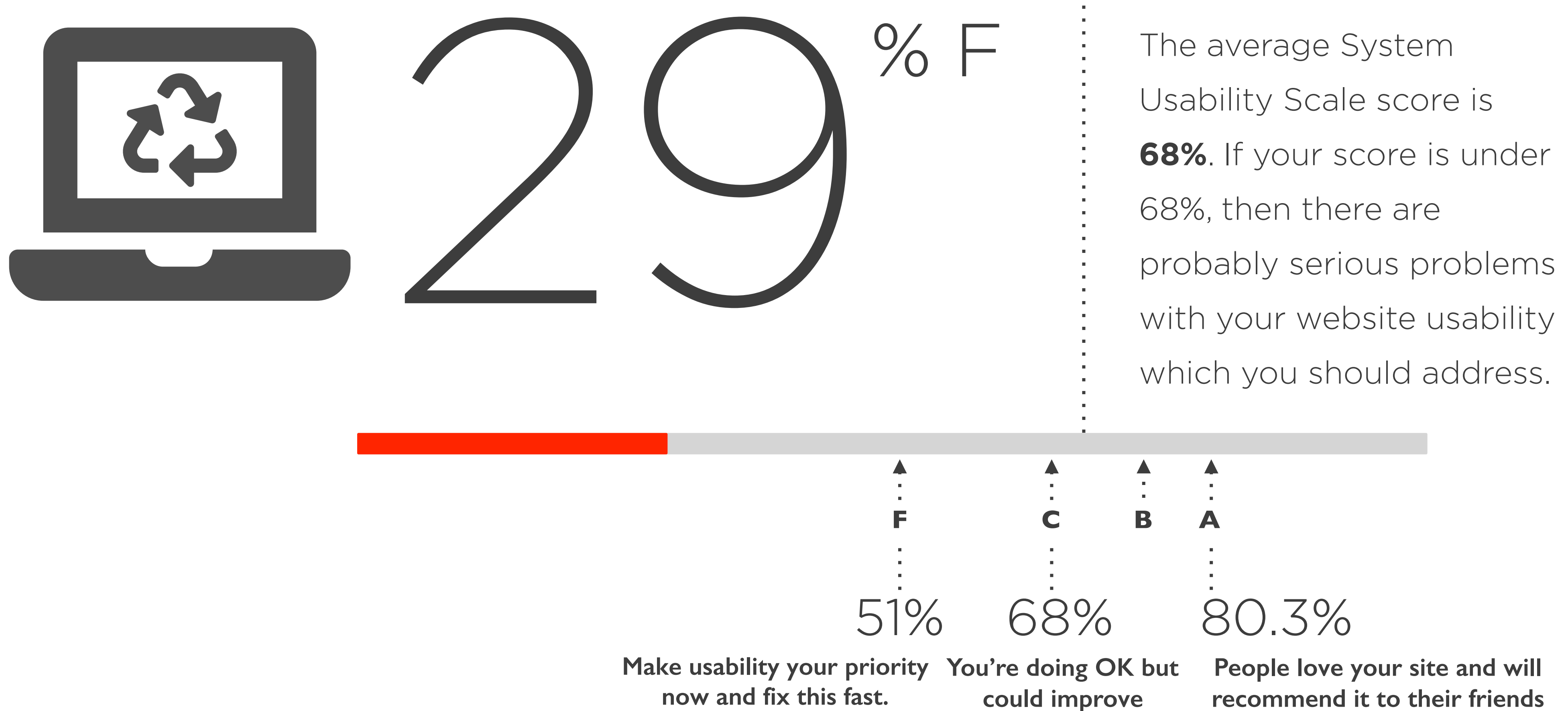




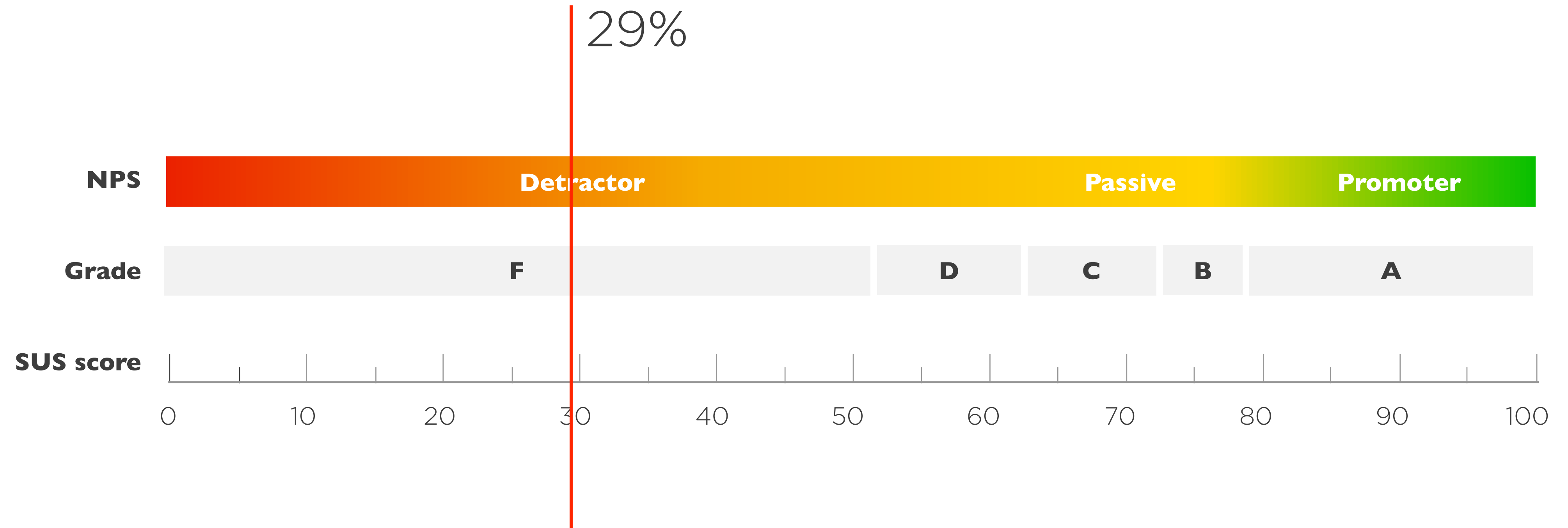
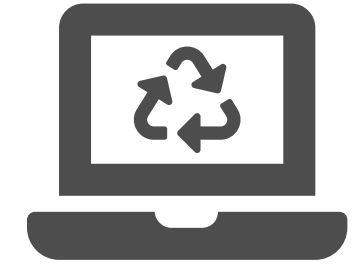
CRP Portal Ease of use

The SUS is an ease-of-use score. It has been tried and tested since 1986 and has proven itself to be a dependable method of evaluating the usability of systems which is internationally recognised.

CRP Portal. Ease of use

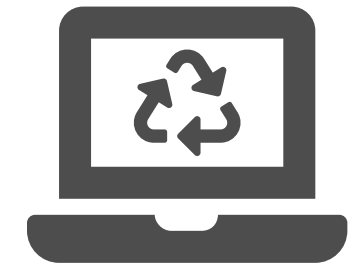


CRP Portal SUS interpretations



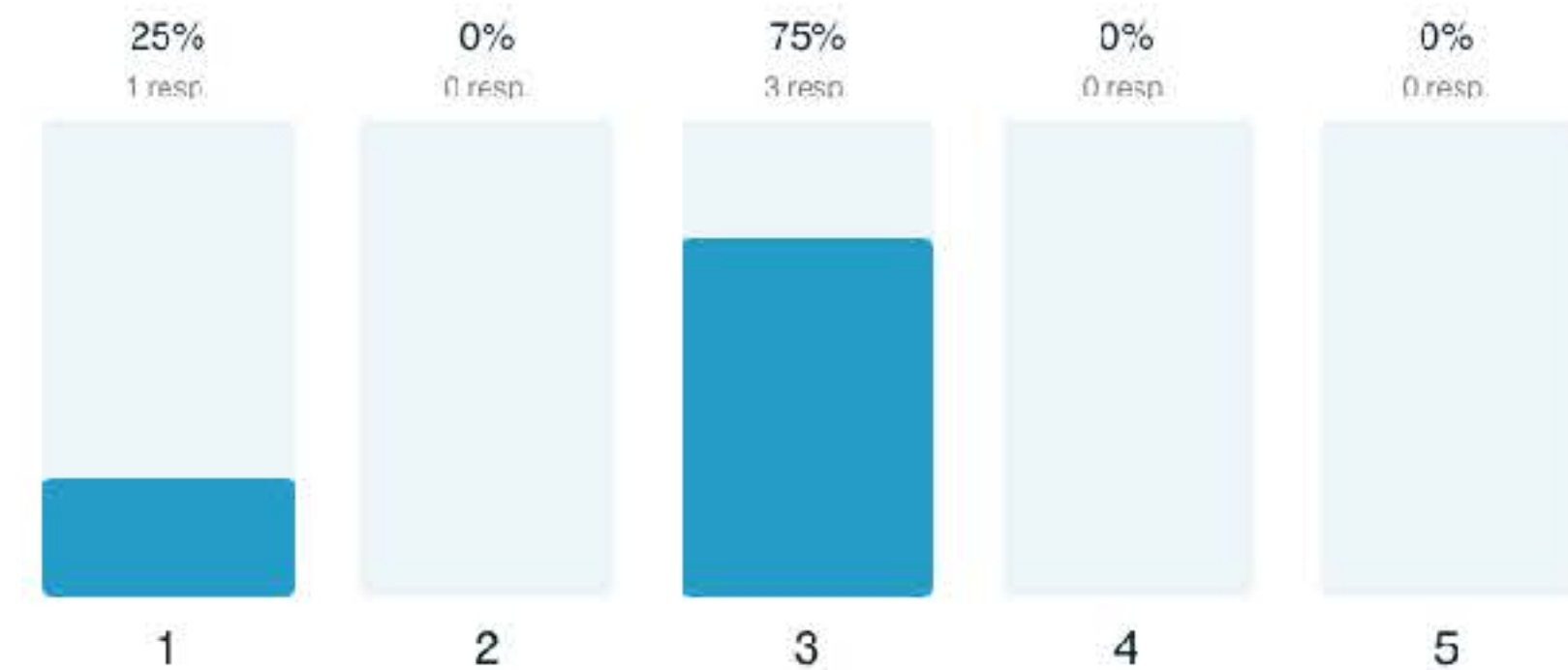
<https://measuringu.com/interpret-sus-score/>

CRP Portal Net Promoter Score

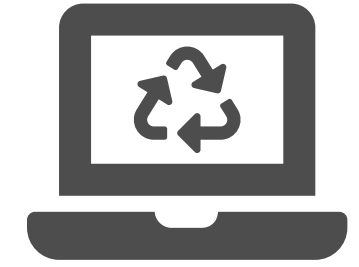






2.5 / 5

How would you rate this website?
(1 = Terrible, 5 = Excellent)



CRP Portal - Why they rated it so...



P1		I found the system very confusing to navigate. I was under-confident in inputting the data. It seems like a very simple process, but this tool feels unnecessarily complicated.
P3		training requires work sheets or access to online tutorials
P4		SYSTEM SLOW AT TIMES AND CRASHES FREQUENTLY
P5		Very complex, little guidance and help points available. Difficult to navigate and understand the terminology

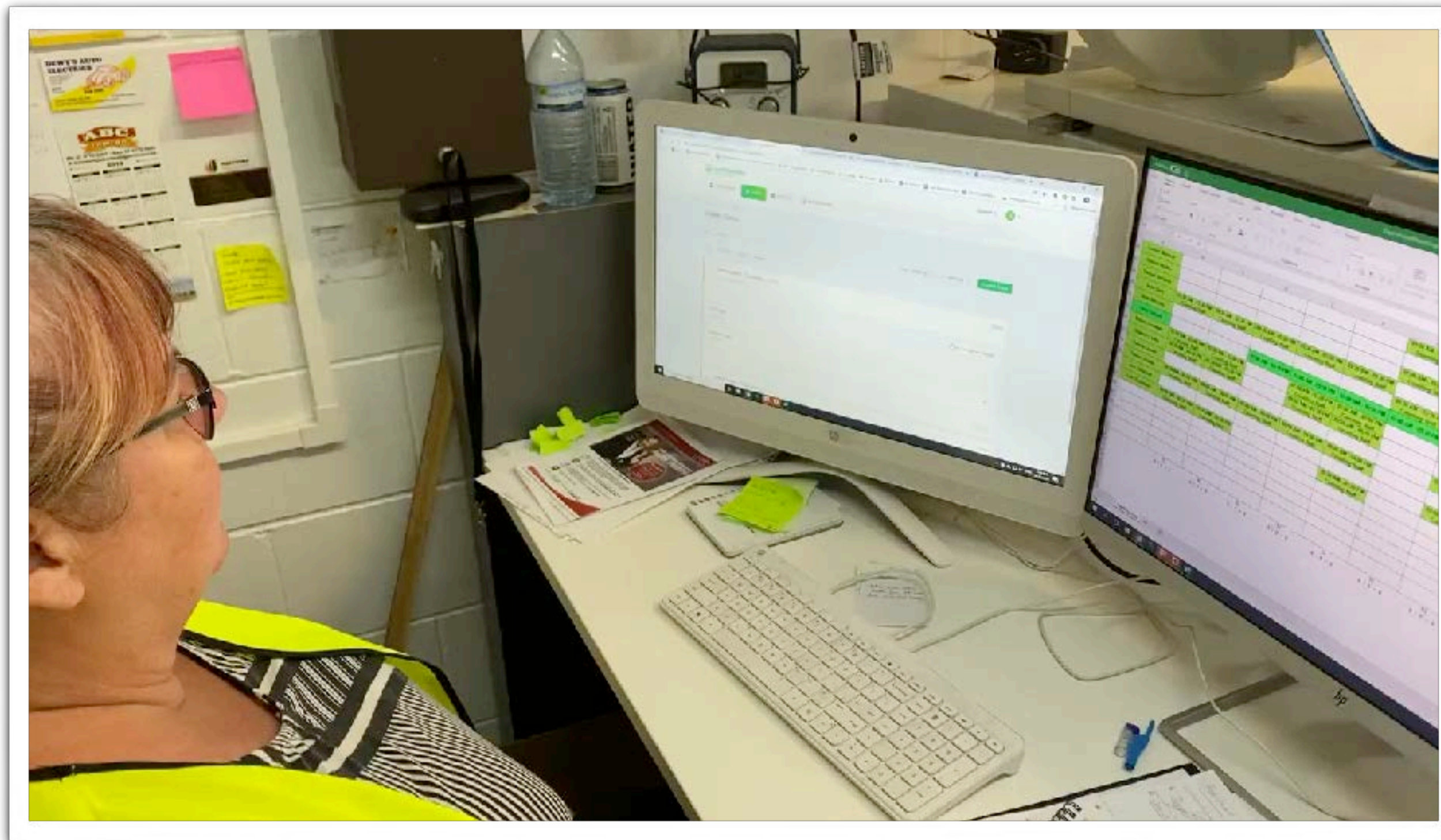
Employee ID code

Low

Medium

Serious

Critical



Frustration at the frequency of login prompts

- Same PIN needs to be entered multiple times intermittently to access the system

Recommendations

- ✓ Investigate and de-bug
- ✓ Allow user to control frequency of PIN prompt
- ✓ Explore alternative and more accessible methods to identify employees
- ✓ Allow user feedback to report bugs and errors

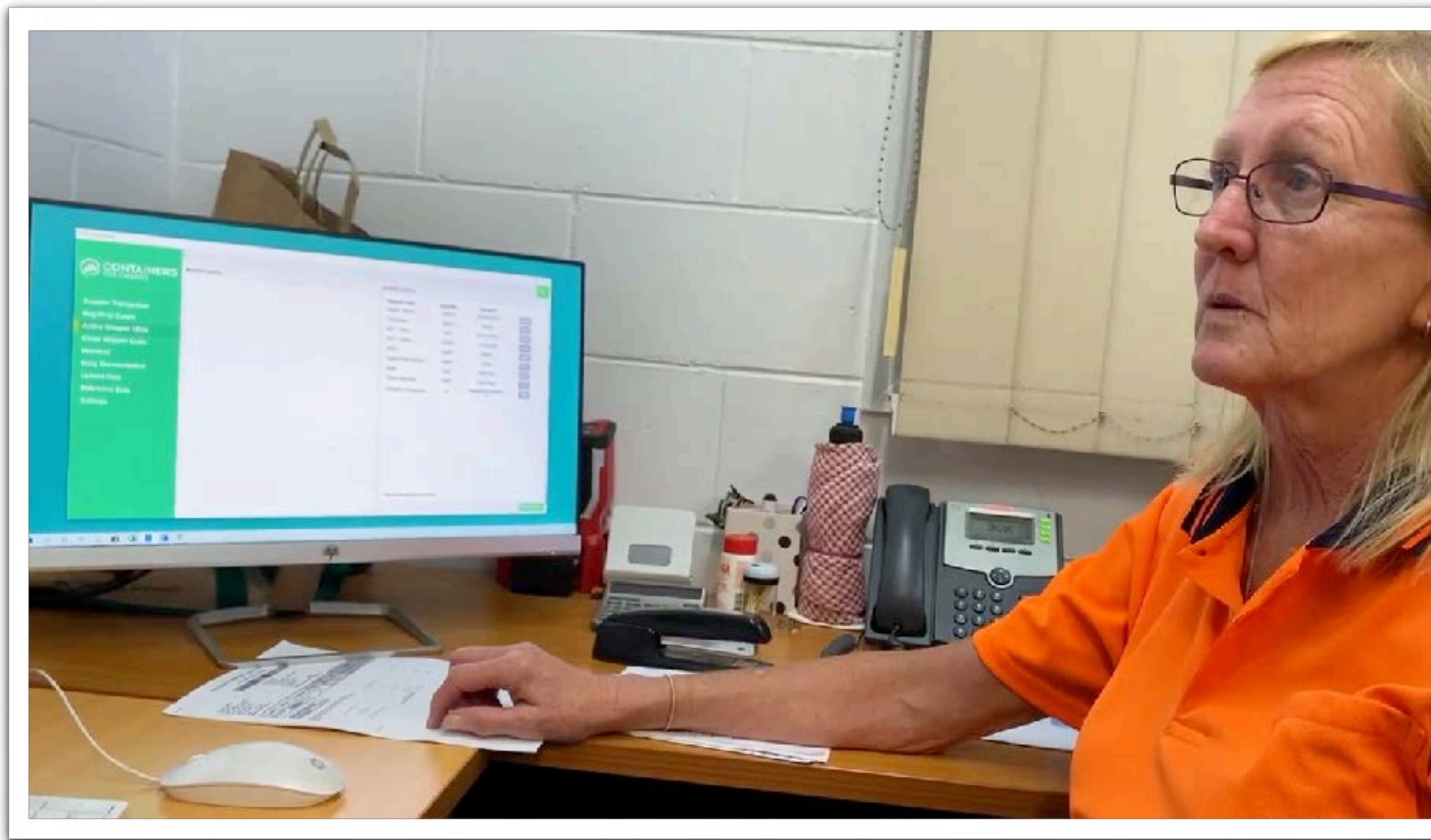
Learnability

Low

Medium

Serious

Critical



User describes the challenges with internal training

- Learning the CRP Portal functions is not easy for new starters

Recommendations

- ✓ Implement into the portal tutorials, support documentation, tooltips and walk-throughs and support channels.

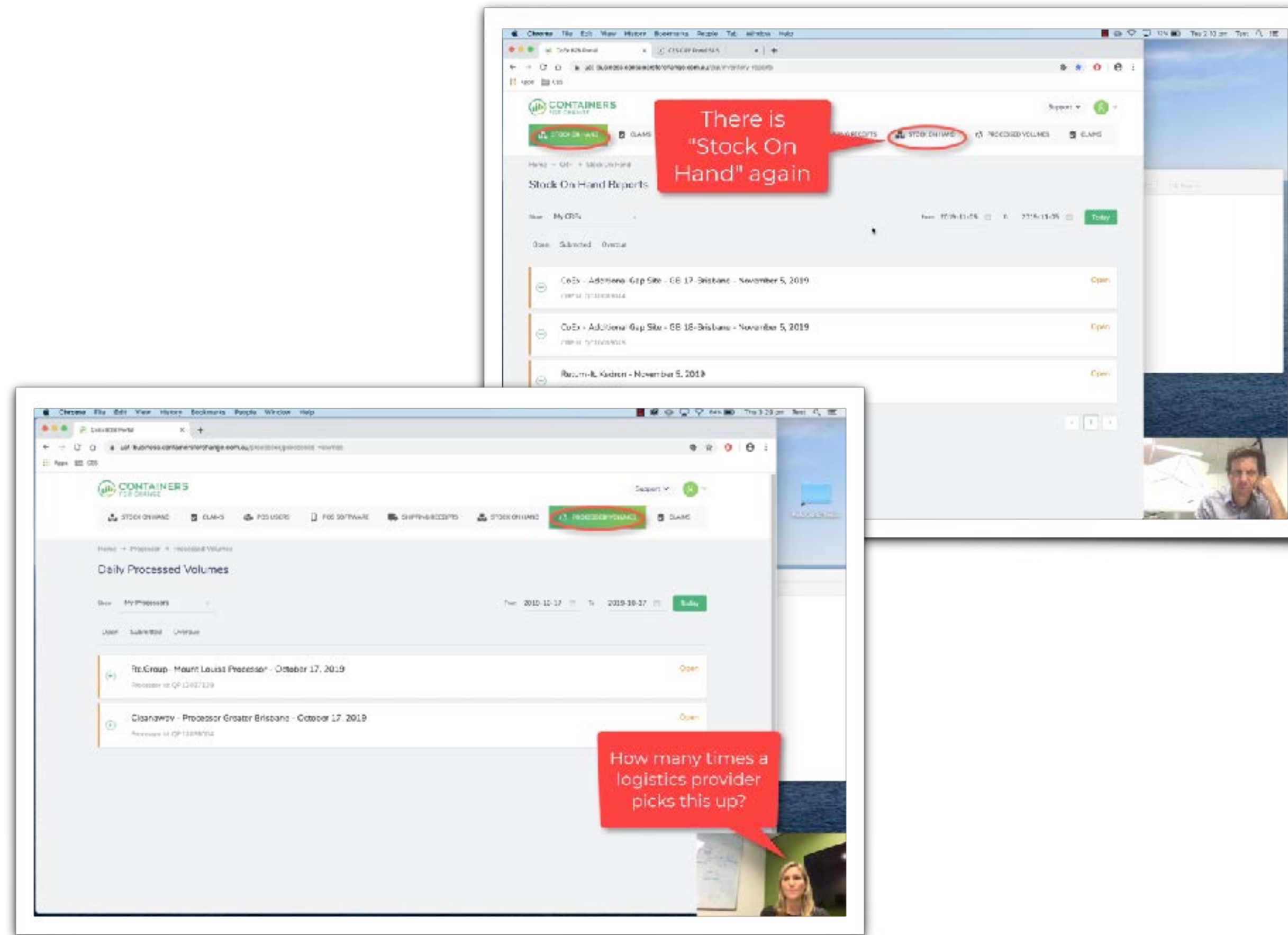
Navigation

Low

Medium

Serious

Critical



- Some labels are ambiguous to users
- Users get confused with duplicate navigation items

Recommendations

- ✓ Re-label navigation items so that they will be understood by first-time users
- ✓ Reconsider the use of different icons with labels which helps differentiate similar areas
- ✓ Make primary navigation stick to the top when scrolling

First time users were confused why there some navigation items were duplicated

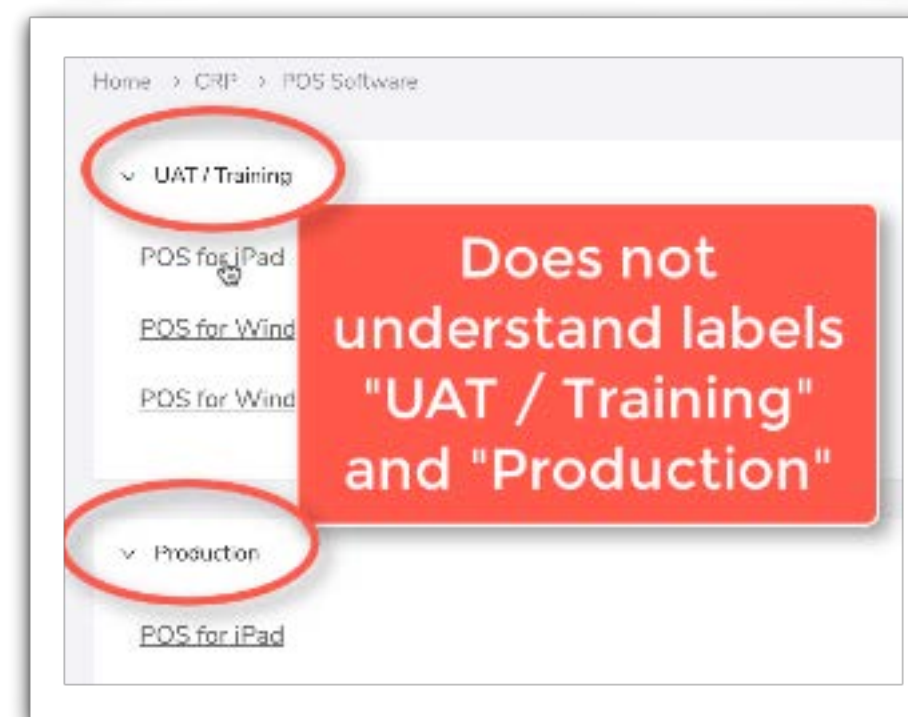
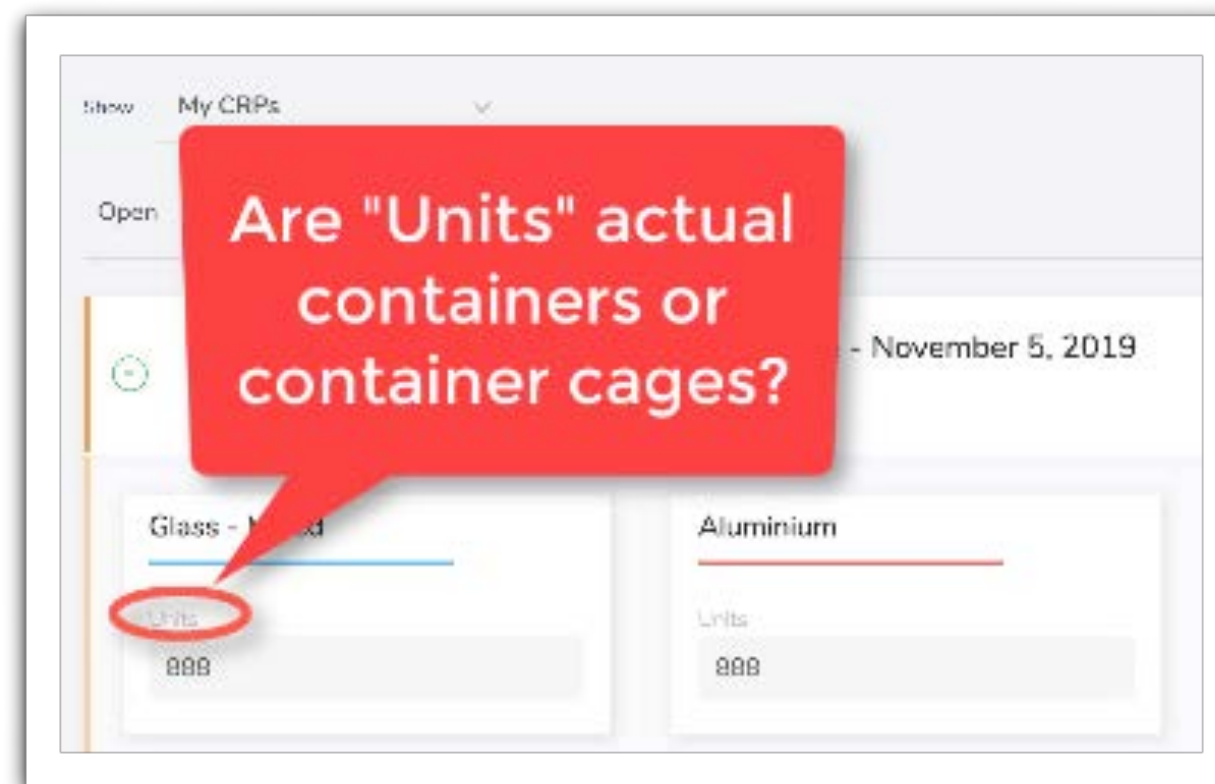
Interface labels

Low

Medium

Serious

Critical



- Labels are ambiguous to first time users

Recommendations

- ✓ Re-label navigation items so that they will be understood by first-time users
- ✓ Consider the use of icons with labels which enhances comprehension

First time users were not sure what the meaning a majority of labels meant

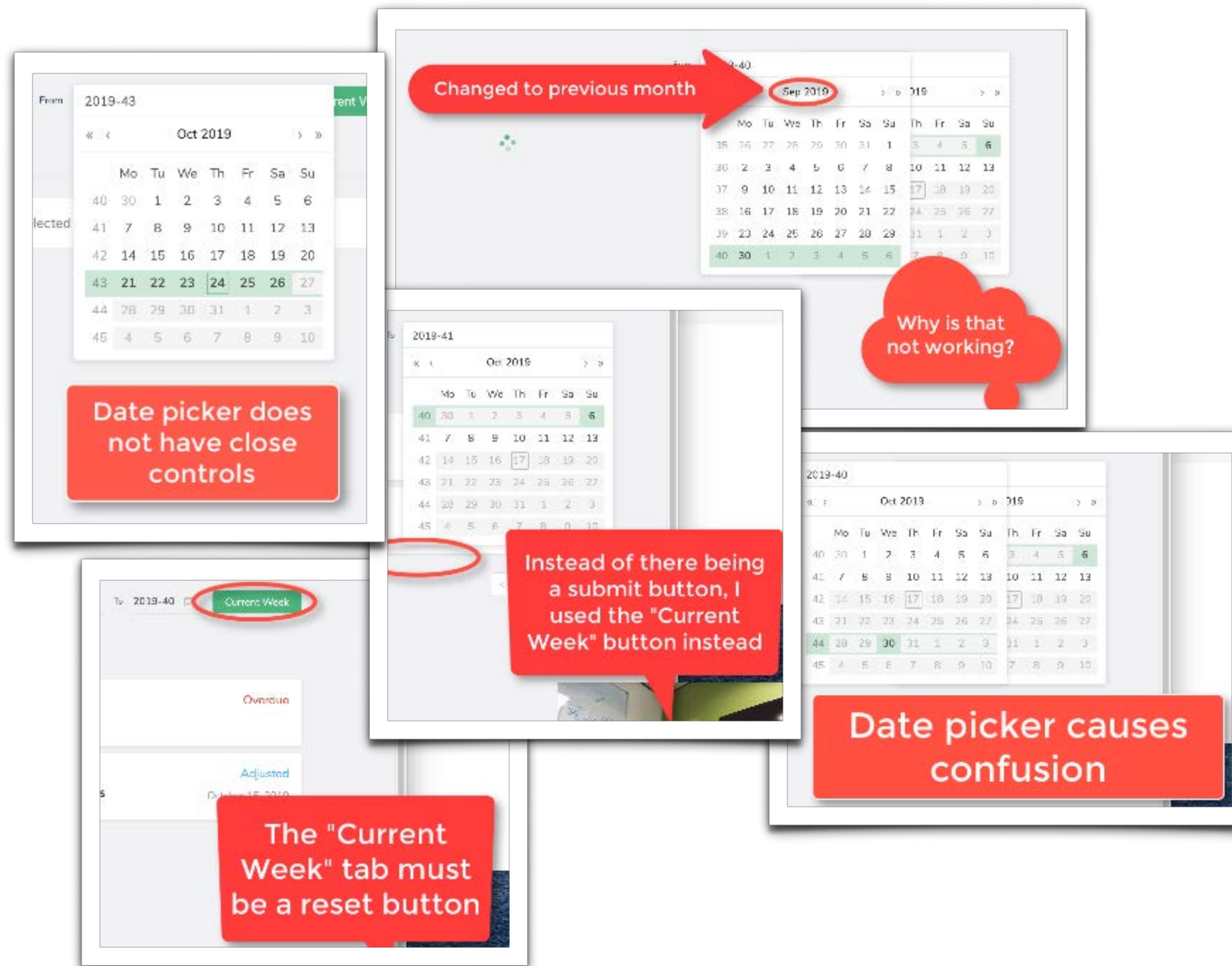
Date picker

Low

Medium

Serious

Critical

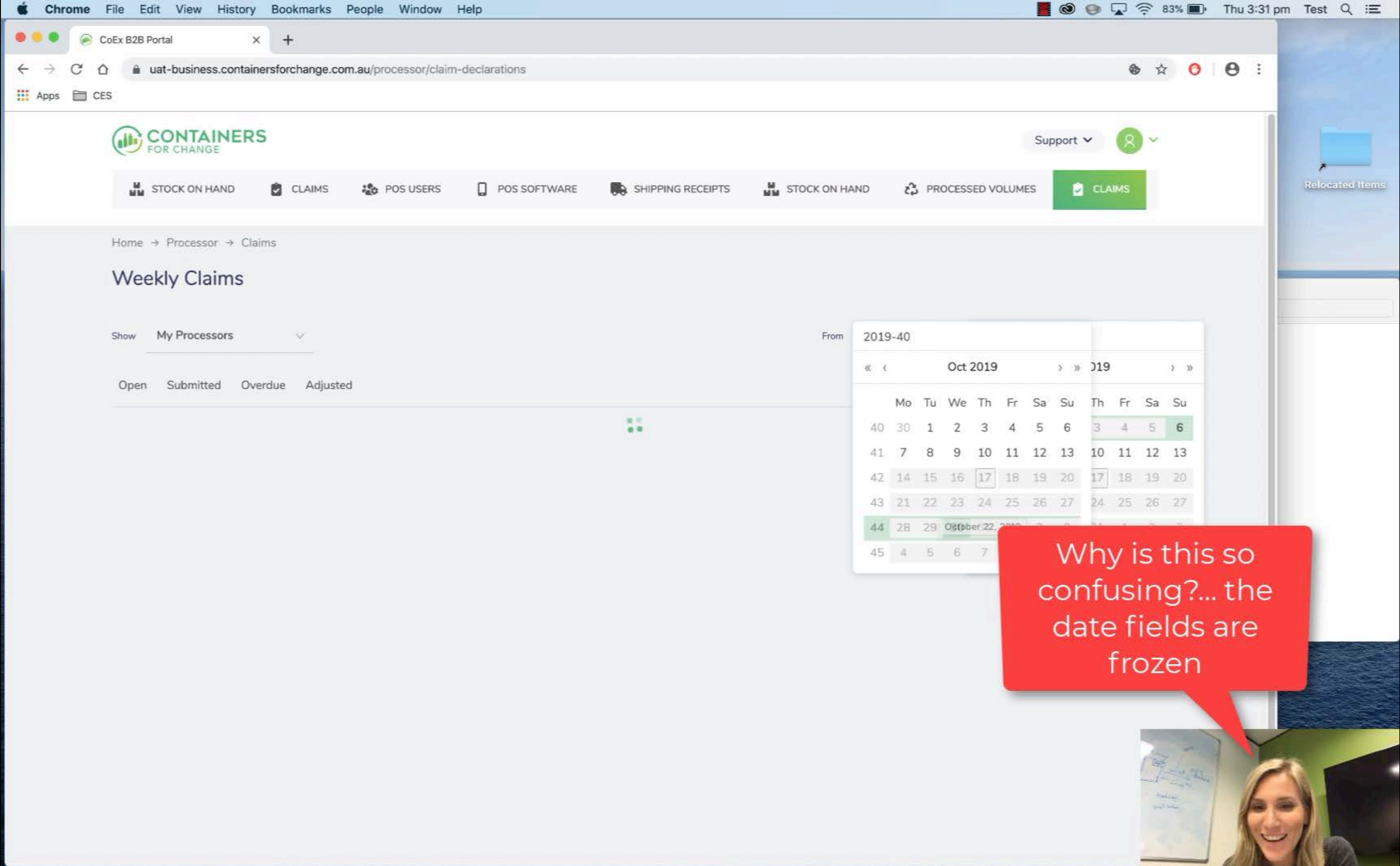


- Intermittently failed to respond or reset to previous month
- Users confused the button for a tab
- Labelling was needed for week number indicator
- Overlapping of modal windows caused confusion

Recommendations

- ✓ Investigate, debug and optimise performance
- ✓ Redesign with clear labels and actions in user interface elements
- ✓ Implement progress indicators for slow performance periods

Calendar is so difficult to operate that it causes severe cognitive load



Why is this so confusing?... the date fields are frozen



Chrome File Edit View History Bookmarks People Tab Window Help

CoEx B2B Portal x CES CRP Portal SUS x +

uat-business.containersforchange.com.au/crp/claim-declarations

Apps CES

CONTAINERS FOR CHANGE Support

STOCK ON HAND CLAIMS POS USERS POS SOFTWARE SHIPPING RECEIPTS STOCK ON HAND

PROCESSED VOLUMES CLAIMS

Home → CRP → Claims

Weekly Claims

Show My CRPs

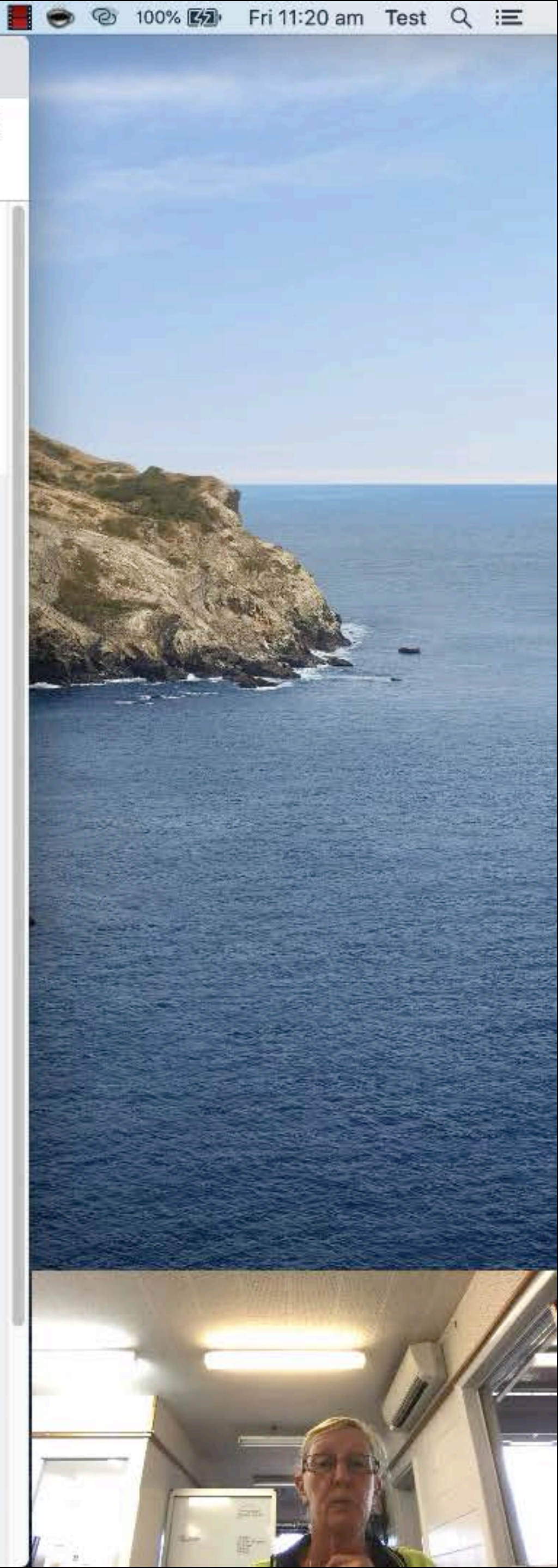
From 2019-43 To 2019-43 Current Week

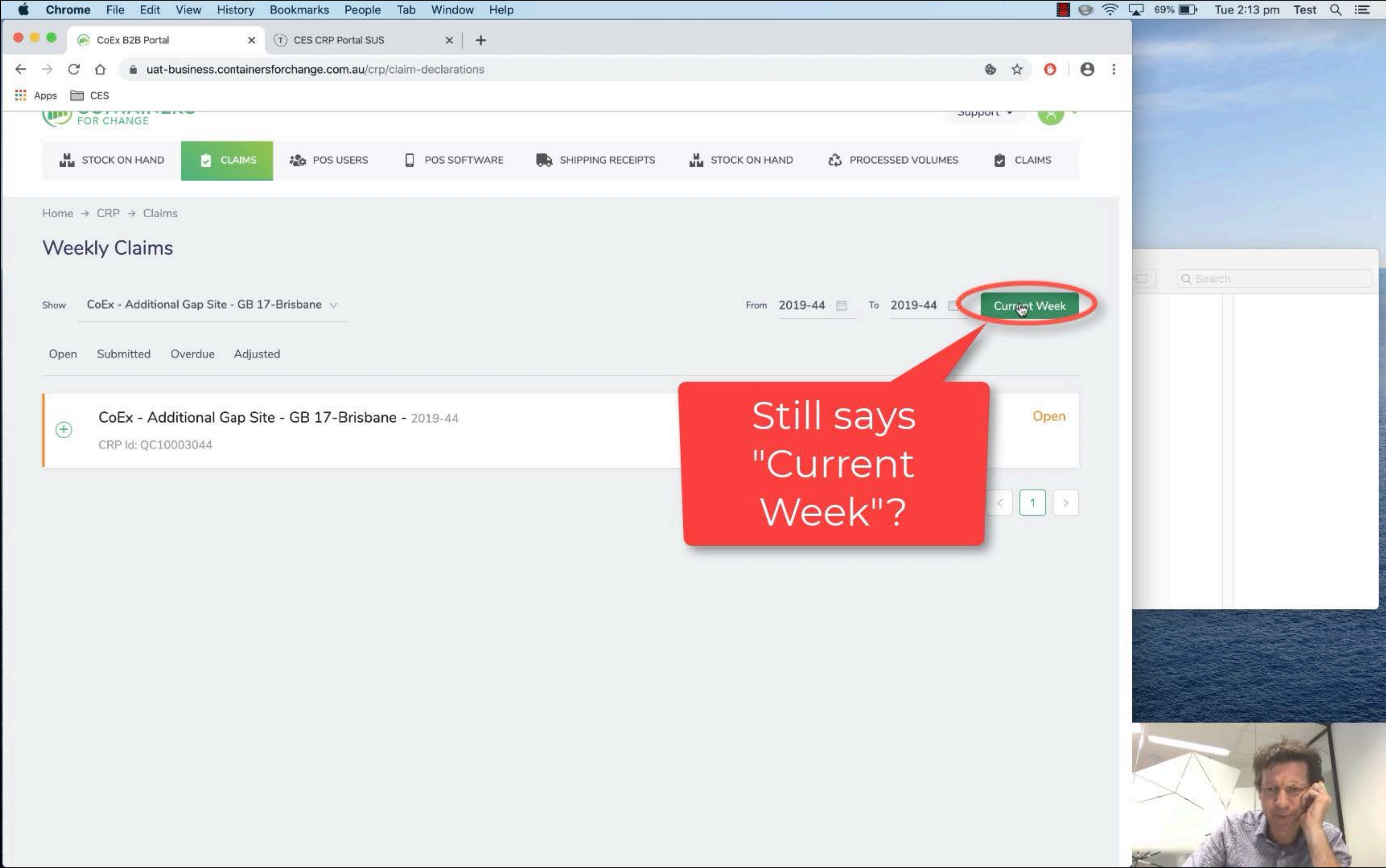
Open Submitted Overdue Adjusted

- CoEx - Additional Gap Site - GB 17-Brisbane - 2019-43
CRP Id: QC10003044 Open
- CoEx - Additional Gap Site - GB 18-Brisbane - 2019-43
CRP Id: QC10003045 Open
- Return-It, Kedron - 2019-43
CRP Id: QC12027001 Open

< 1 >

Date picker not responding to action





Still says "Current Week"?

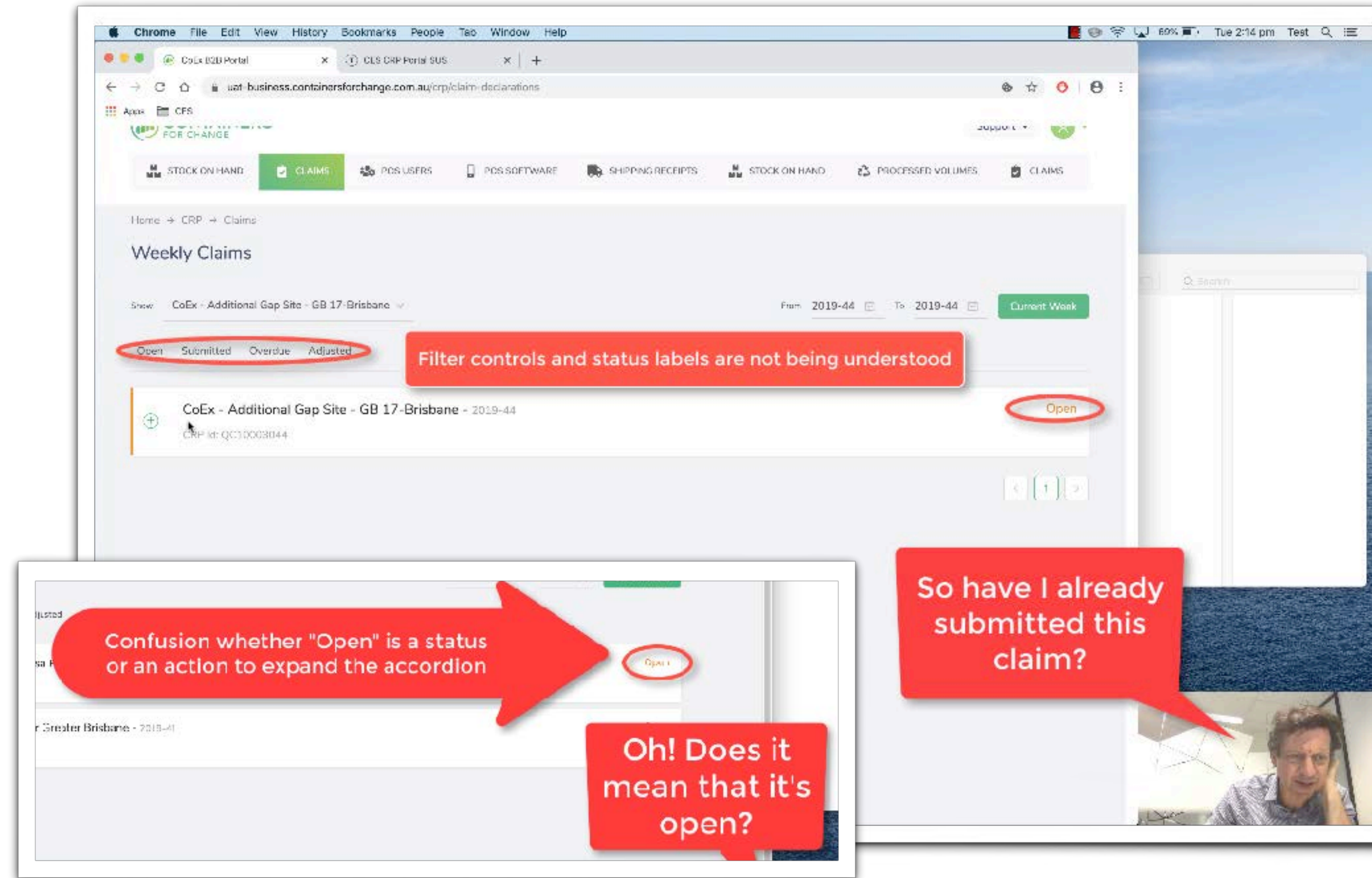
Intuitive filters and labels

Low

Medium

Serious

Critical



- Users did not easily perceive and understand the filters and associated status of each claim container

Recommendations

- ✓ Redesign filters and accordion with clear labelling

Users struggled to understand the way that the filters worked

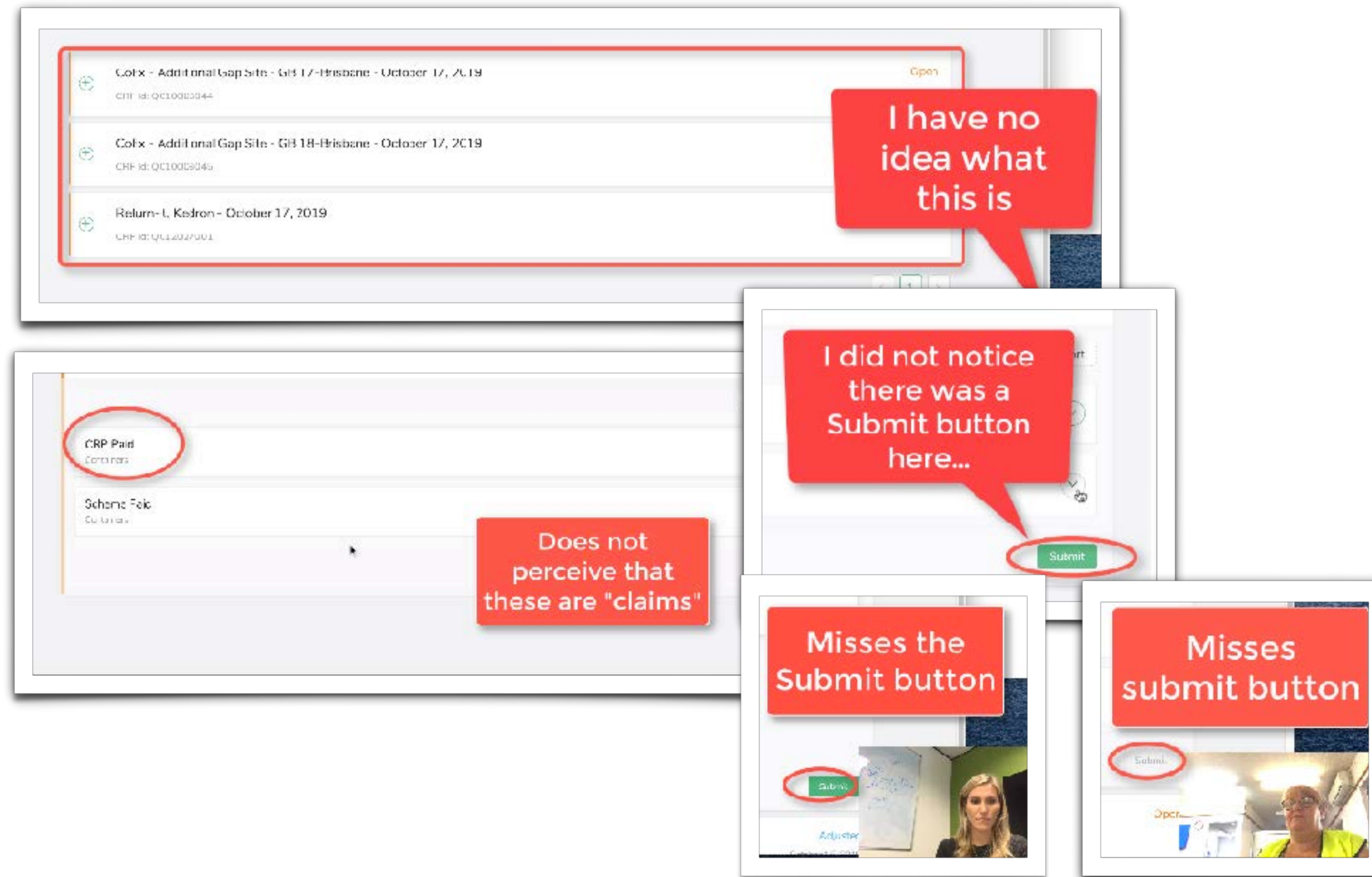
Claims

Low

Medium

Serious

Critical

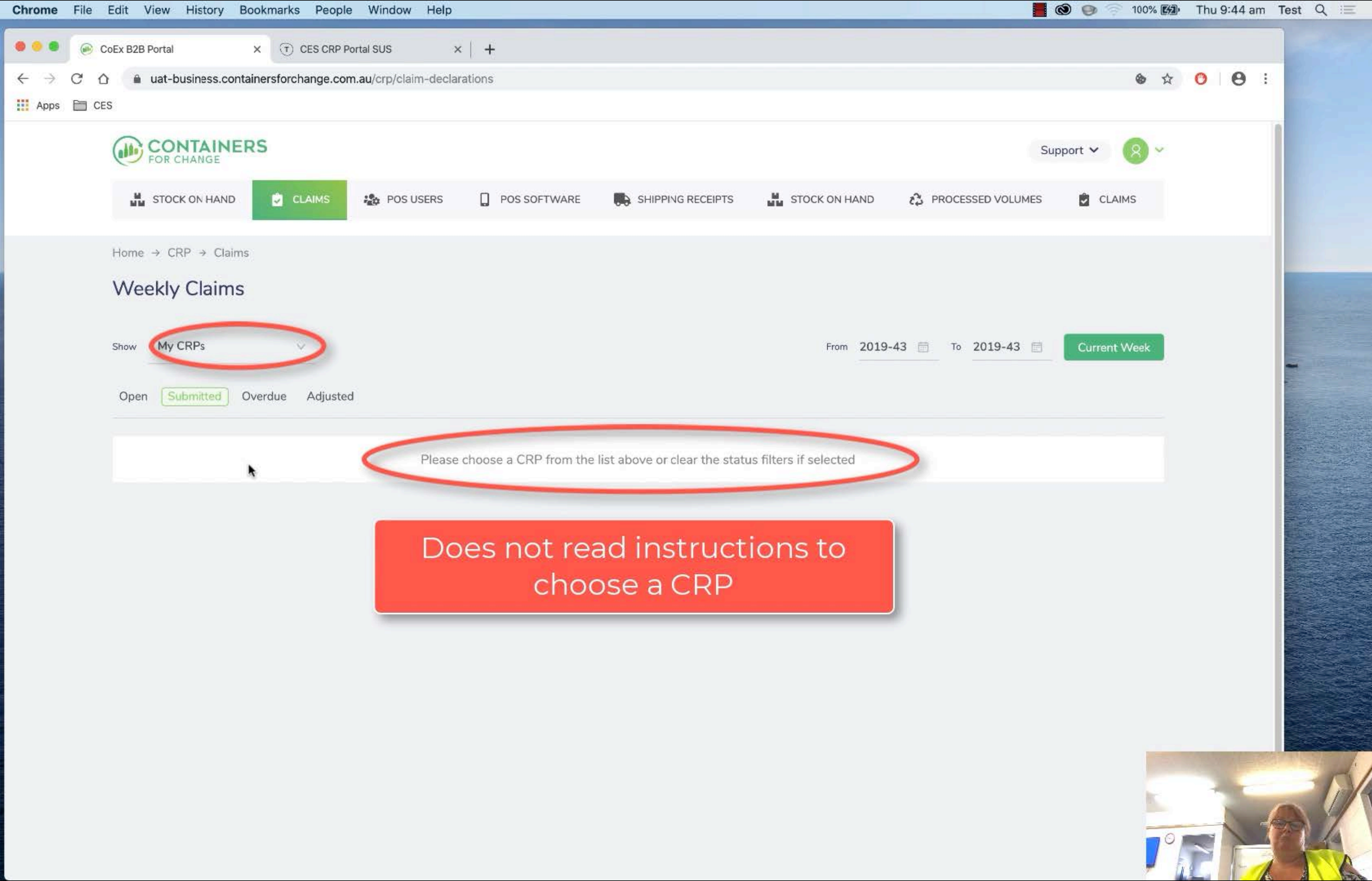


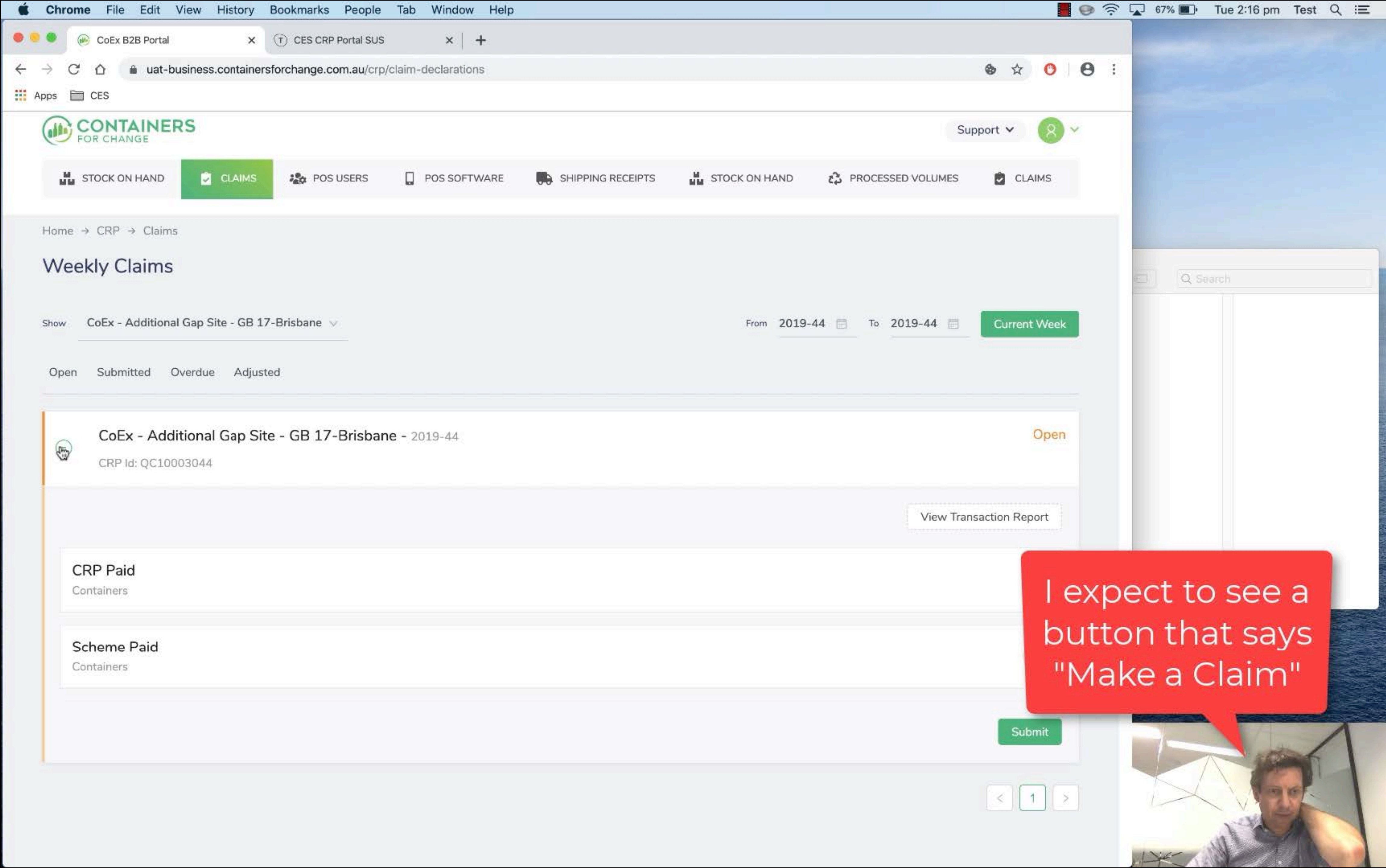
- “Choose CRP” step was not perceived
- Accordions were difficult to understand and operate
- Submit button was not perceived
- Its not clear when users can submit a claim

Recommendations

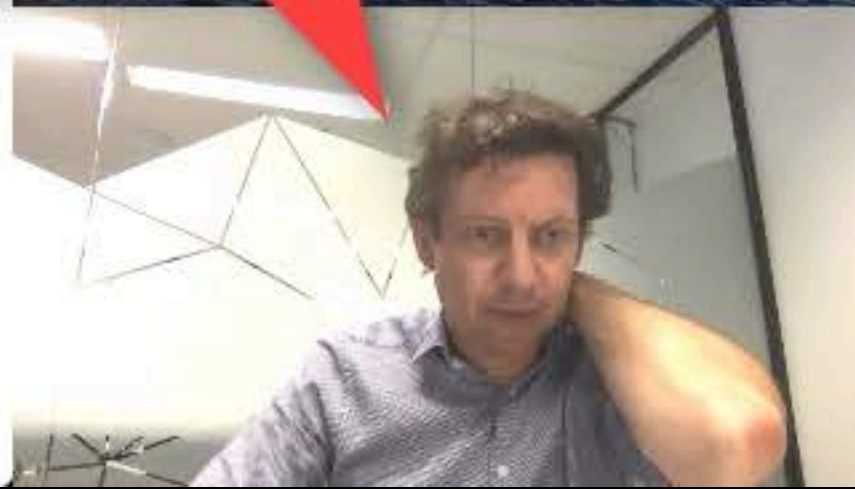
- ✓ Present default screen with selected CRP
- ✓ Redesign accordion content with clear labelling
- ✓ Relocate and re-label button to “Submit Claim”

Claims were difficult for users to understand





I expect to see a button that says "Make a Claim"



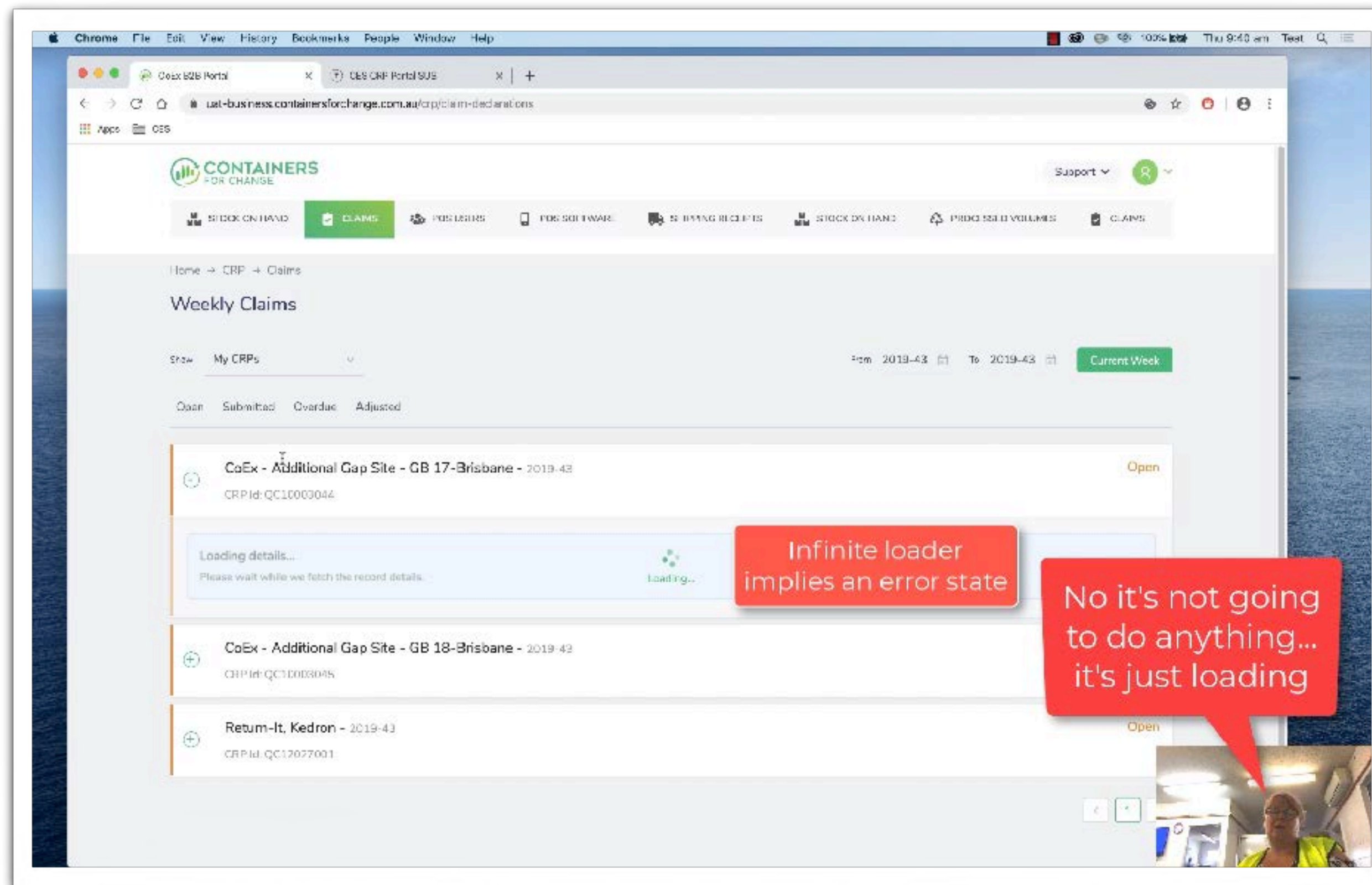
Performance

Low

Medium

Serious

Critical



- Some data pulling took a long time to process

Recommendations

- Implement progressive feedback on lengthy system processes

Users thought that the system had crashed or failed when there were delays or infinite loaders

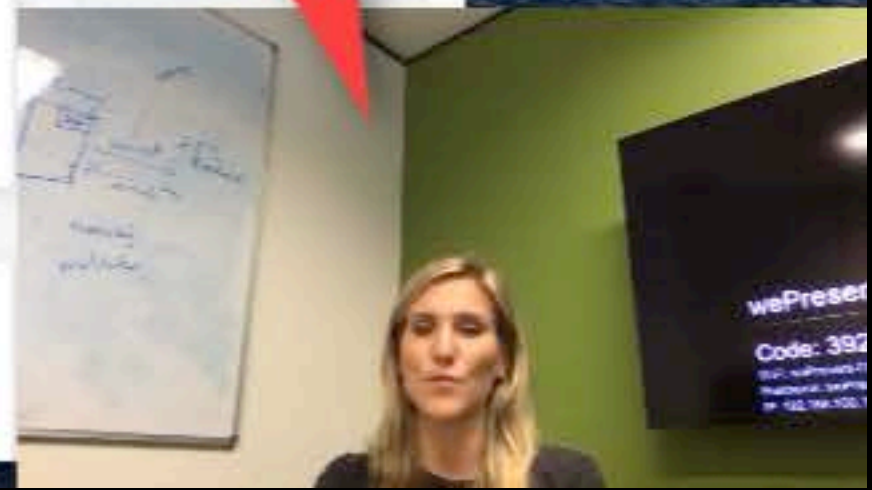
The screenshot shows a web browser window with the following elements:

- Browser Header:** Chrome browser, address bar: `uat-business.containersforchange.com.au/processor/claim-declarations`. Menu items: File, Edit, View, History, Bookmarks, People, Window, Help.
- Page Header:** CoEx B2B Portal, navigation icons (back, forward, refresh, home), and a 'CES' folder icon.
- Main Content Area:** A grid of input boxes for material weights. Each box has a title and a 'Kgs' value.

Material	Weight (Kgs)
(Unlabeled)	0.00
HDPE	0.00
Liquid Paper Board	0.00
Steel	0.00
Other Materials	0.00
Ineligible Containers	0.00
- Summary Row:** Cleanaway - Processor Greater Brisbane - 2019-40. Processor Id: QP12038004. TOTAL WEIGHT: 495.00 Kgs. A 'Submit' button is visible above this row.
- Bottom Section:** A second grid of input boxes.

Material	Weight (Kgs)
Glass - Mixed	15.00
Aluminium	25.00
PET - Clear	35.00
PET - Colour	45.00
HDPE	(value obscured)
Liquid Paper Board	(value obscured)
Steel	(value obscured)
Other Materials	(value obscured)

I was confused as to whether this was an error or if I should keep waiting



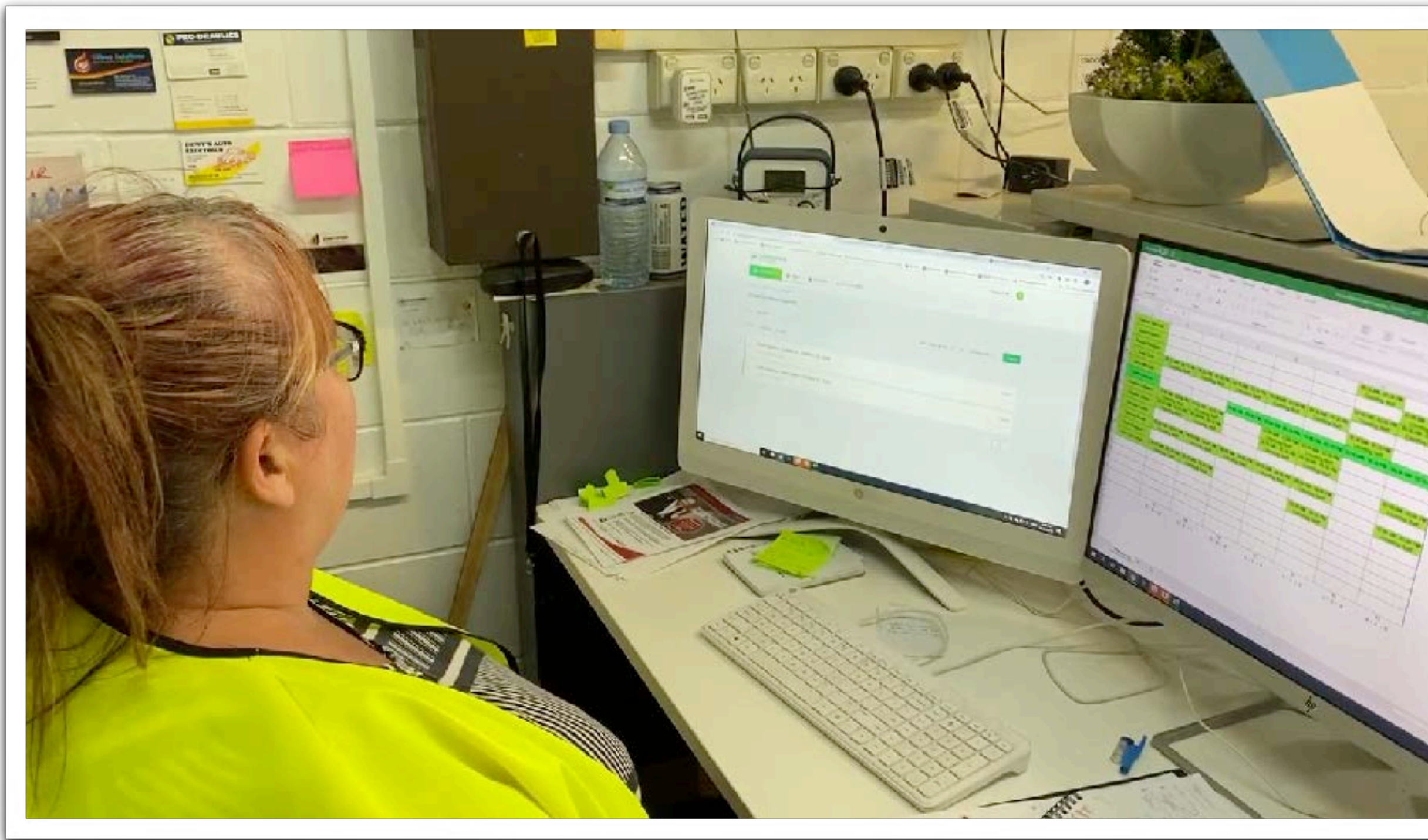
Claims inconsistency

Low

Medium

Serious

Critical



Frustration at inconsistency of data display depending upon the day of the week

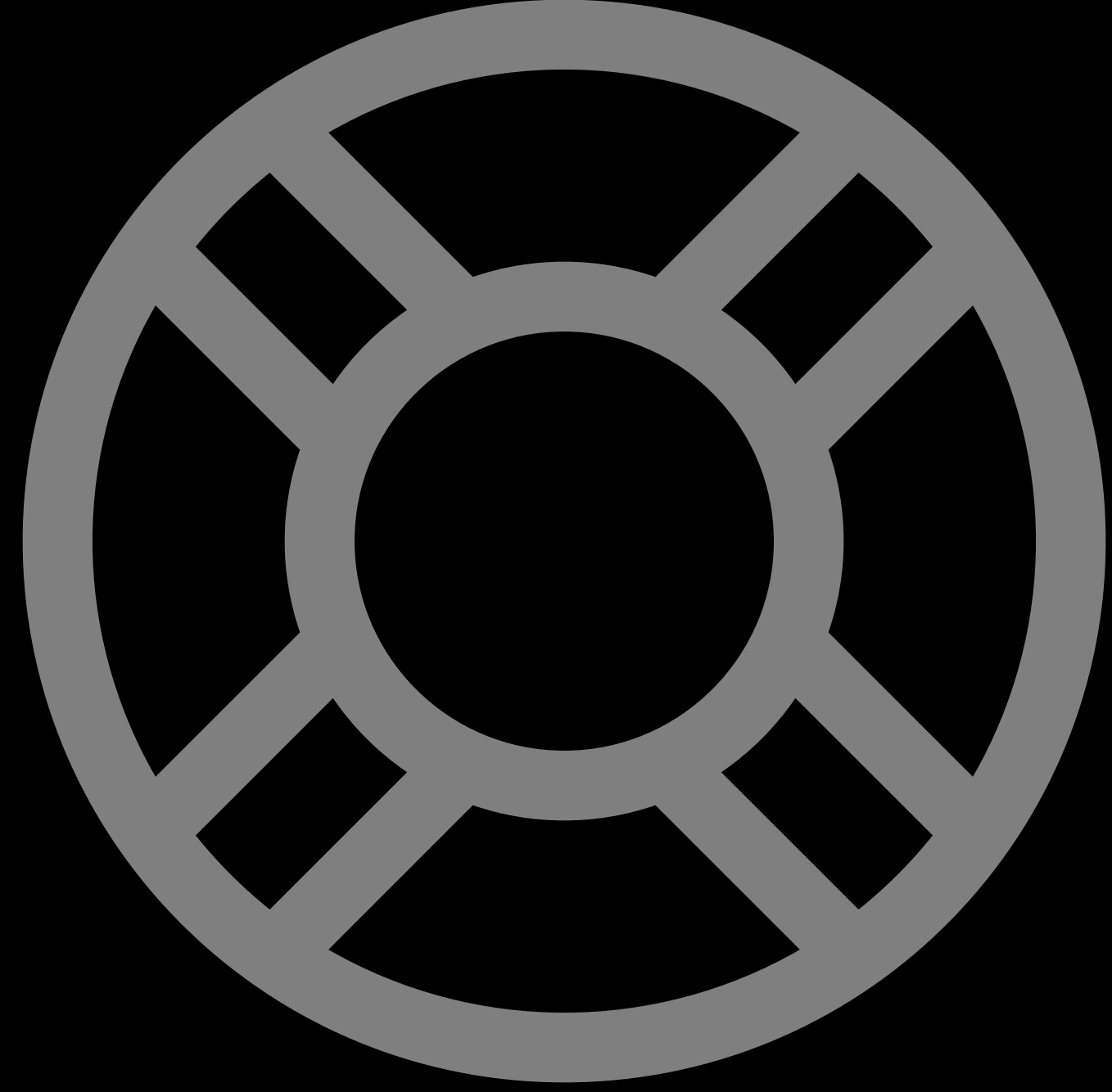
- Claims does not display data consistently on Sundays
- User must set date fields as a workaround

Recommendations

- ✓ Investigate and de-bug
- ✓ Allow user feedback to report bugs and errors



Support



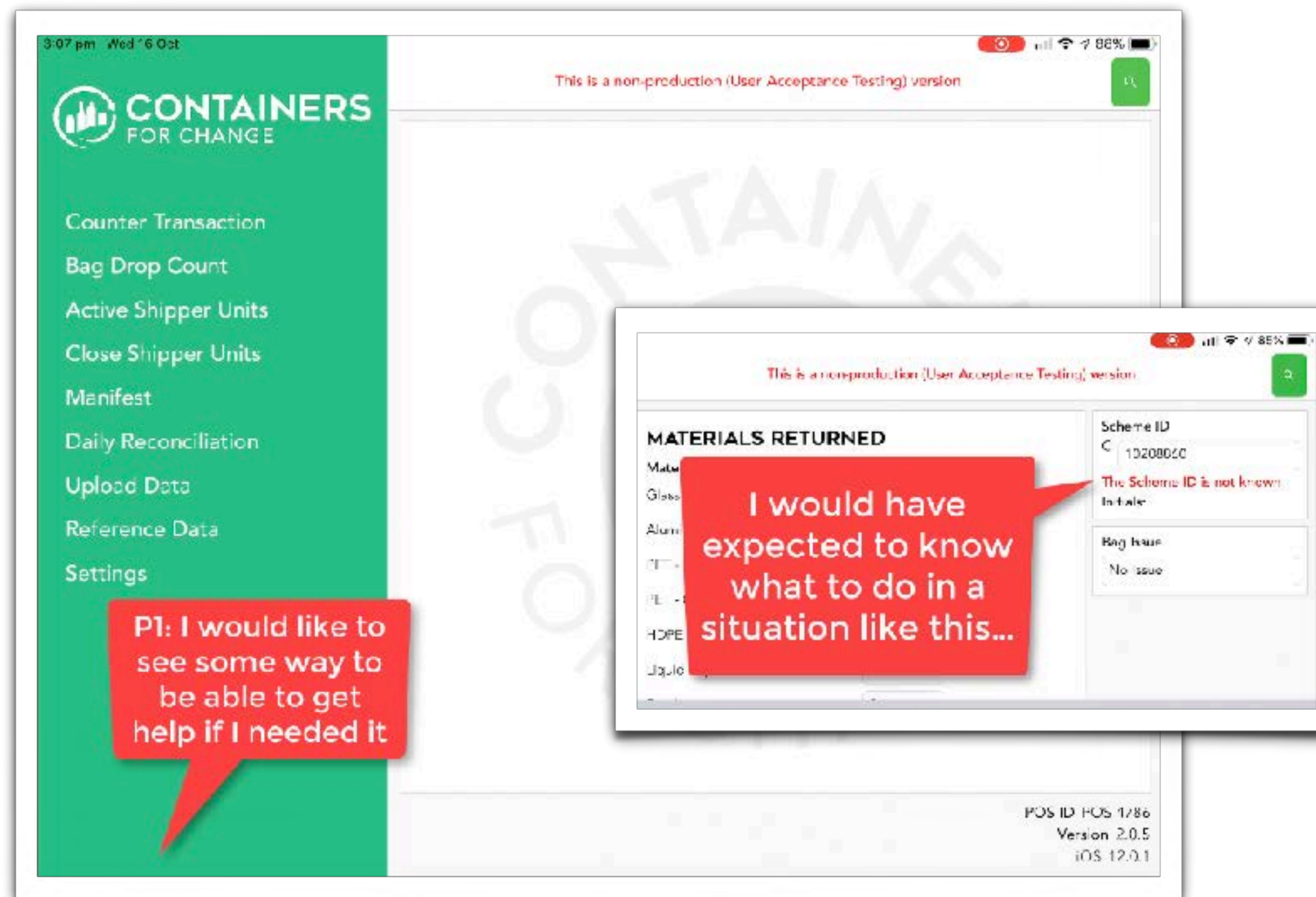
Support in POS

Low

Medium

Serious

Critical



Users would like to see a way to get support in the POS

- There is a lack of support channels visible in the POS
- This would be useful for first timers or when technical issues arise

Recommendations

- ✓ Implement support channels options in the user interface

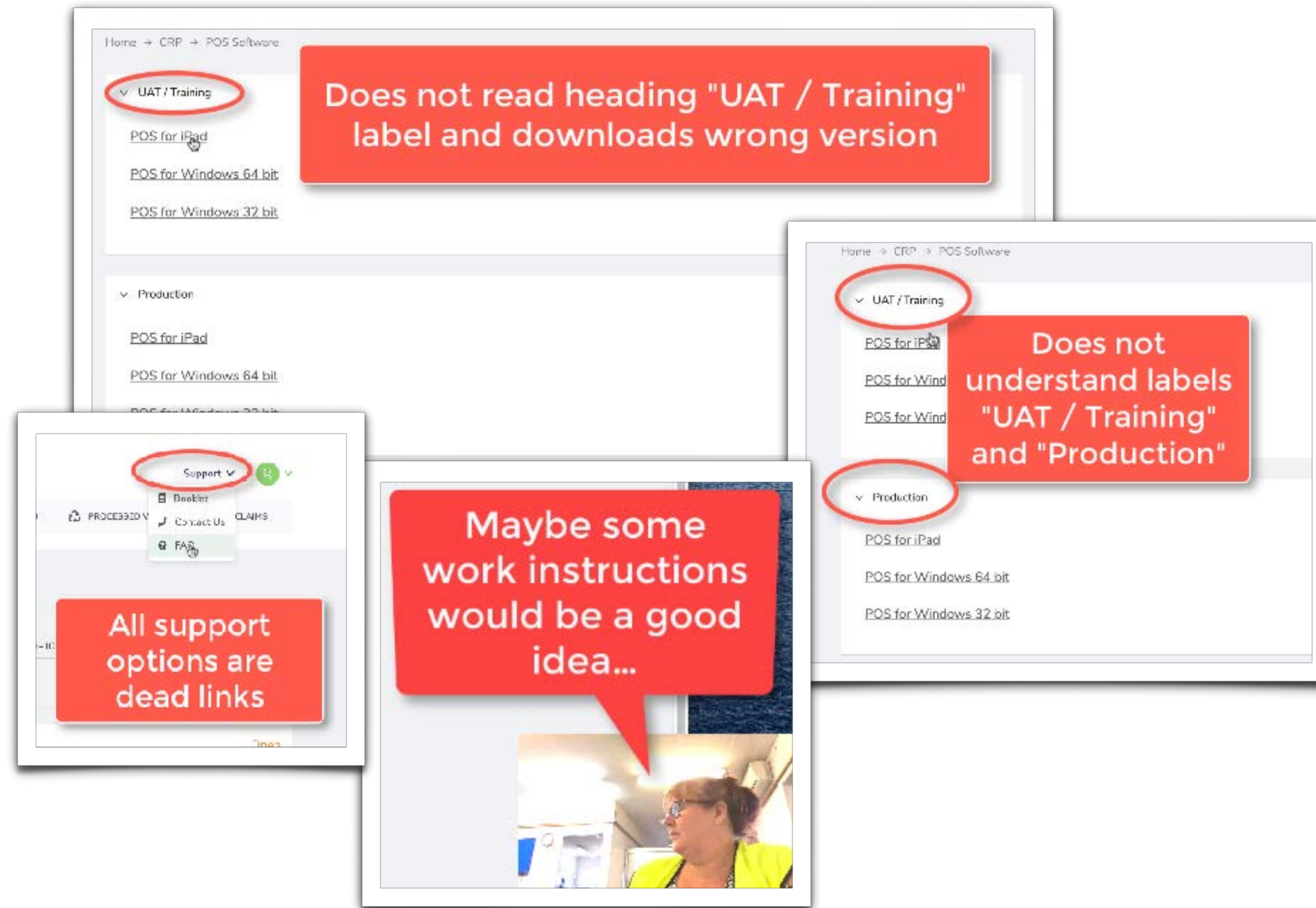
Support in CRP Portal

Low

Medium

Serious

Critical



- Support links were all dead
- Users would turn to colleagues for support or an expert when they struggled

Recommendations

- ✓ Implement support channels options in the user interface

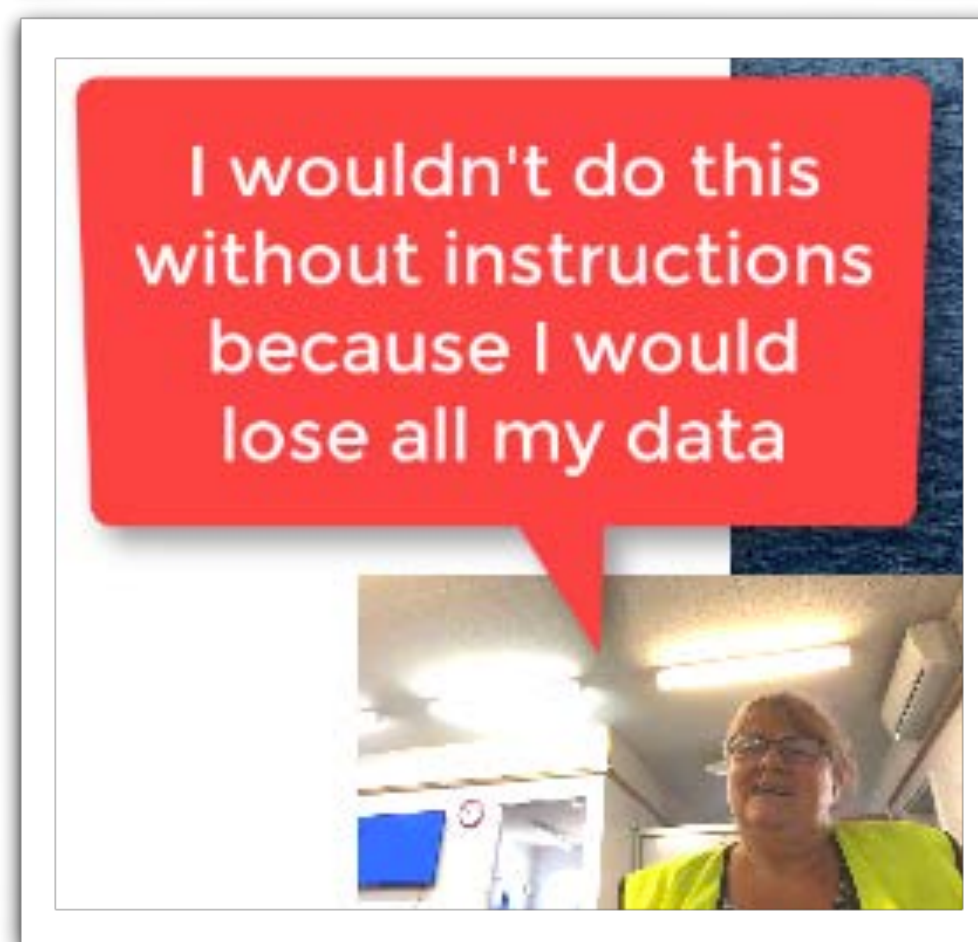
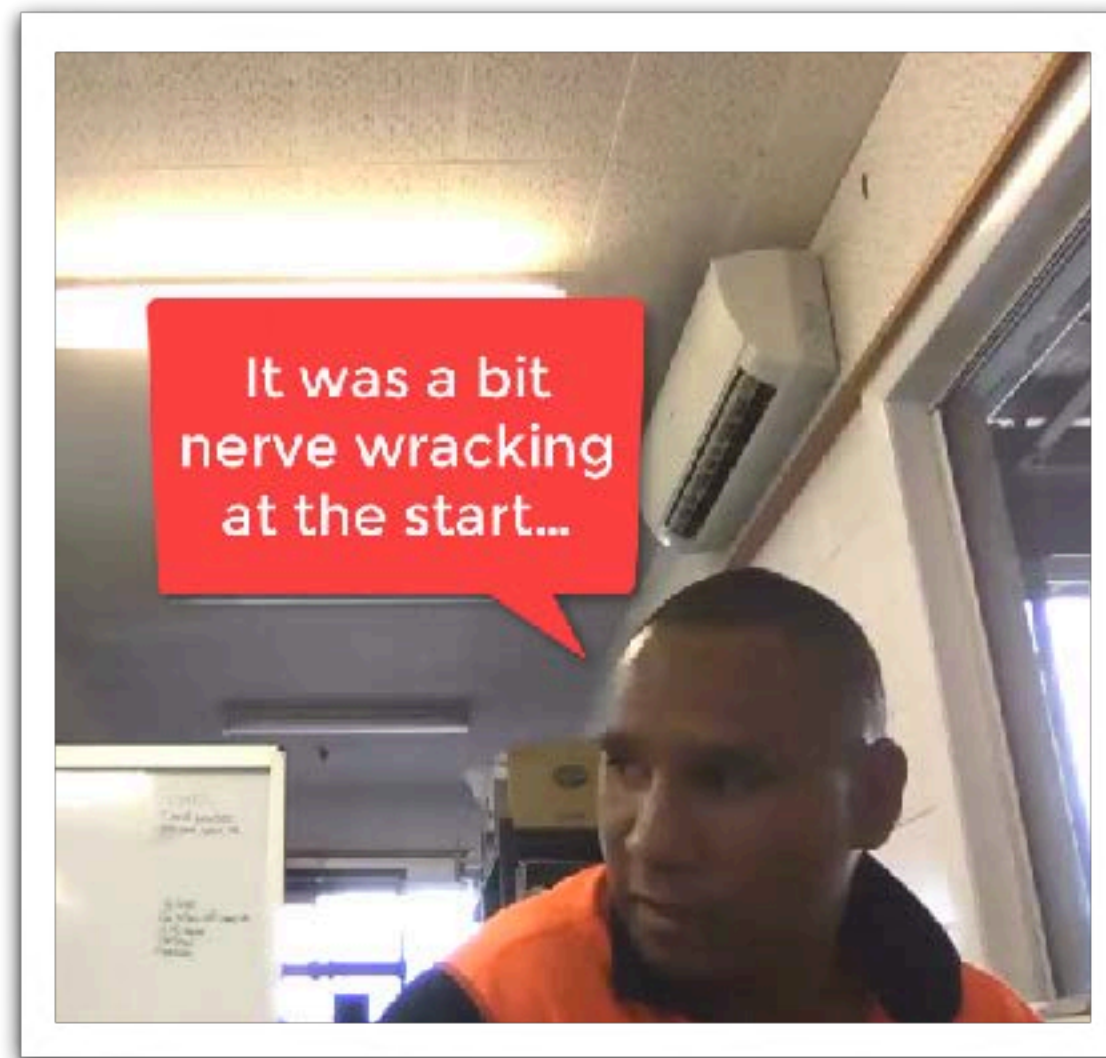
Users need to be presented with intuitive information and supported with step-by-step instructions



POS Accessibility



Users and technology



Some users tended to experience anxiety when dealing with new technology

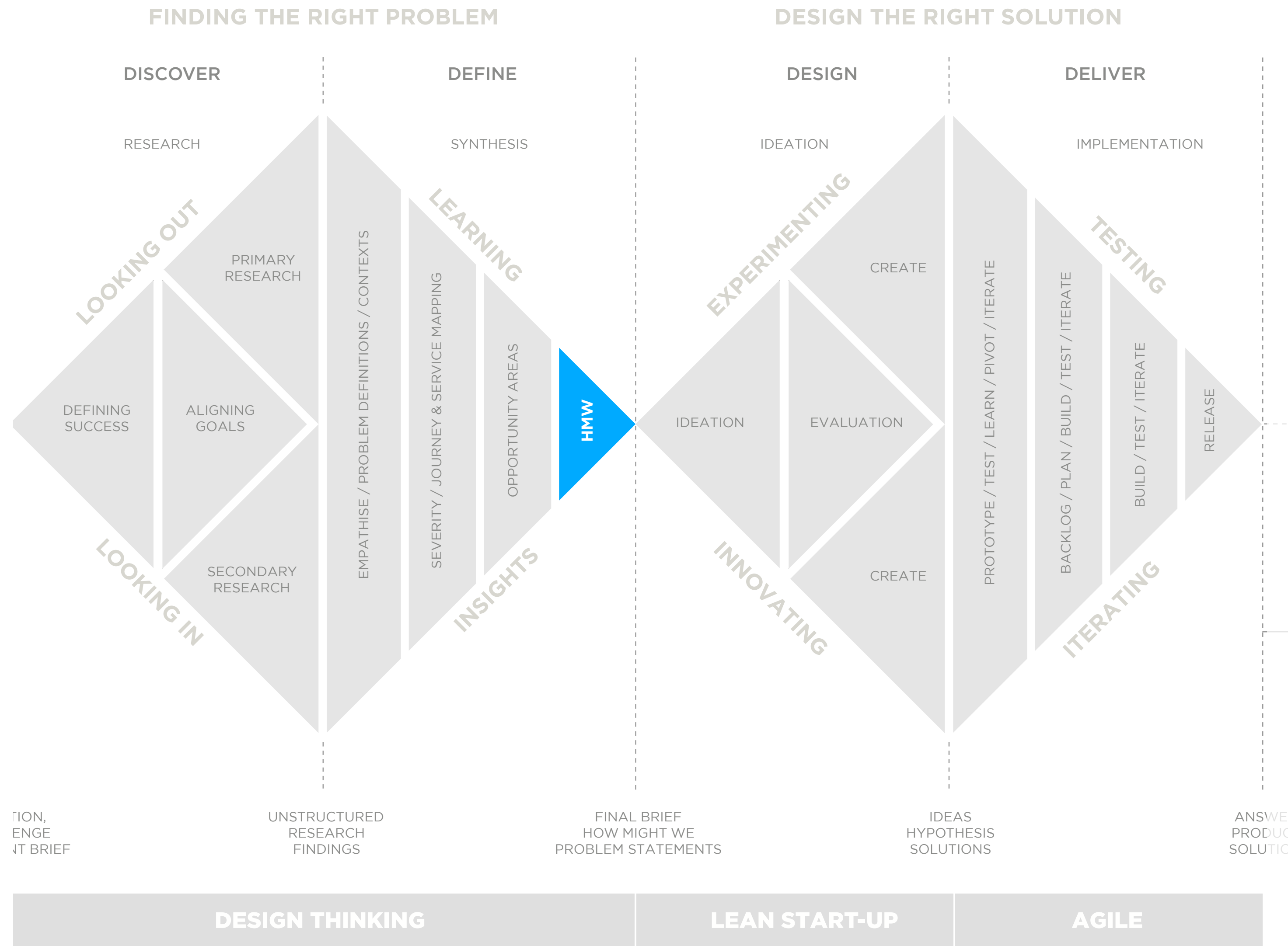
- Some POS users do not have a high technical ability
- All users would like systems to be more user-friendly

Recommendations

- ✓ Design inclusive systems to be accessible for people of all technical abilities.

○ Next steps

How might we...?



Activities

1. Prioritisation of problems
2. Problem statement workshops
3. Co-design sessions
4. Prototype & test

POS UX Priorities

● Critical

◆ Serious

✦ Medium

Navigation

- Ensure navigation labels are intuitive
- Explore usage of icons to enhance understanding

Shipper unit flows

- Create user flows for shipper unit procedures
- Redesign UI for intuition in setting up / creating units / closing / replacing units

Container eligibility search

- Redesign larger search field with clear labels
- Redesign search results to include images, material types and details why certain containers are not eligible
- Exploration of barcode recognition technology
- Configure screen layout for iOS keyboard input (Search, Counter transactions, Customer Verification)
- Increase text size

Counter Transaction

- Inclusion of additional help for material types
- Forms disabled states need to be noticeable
- Error states for disabled form states to set-up 'units'
- Form alert to confirm destruction of input on page exit
- ◆ Design flow and UI for contaminated containers

Performance

- Investigate system lags
- Implement progressive feedback UI
- Implement performance analytics
- ✦ Implement user feedback channels

Support

- Implement tutorials, support documentation, tooltips and on-boarding walk-throughs
- Implement user support channels.

CRPO Portal UX Priorities

● Critical

◆ Serious

✦ Medium

Navigation

- Re-label navigation items for intuition
- ◆ Differentiate icons that convey meaning
- ✦ Explore benefits of sticky navigation

User Interface labels

- Audit UI for ambiguous meanings

Date Picker

- Redesign date picker for intuition
- Investigate, debug and optimise performance

Filters and accordions

- Redesign accordions for intuition
- Redesign filters for intuition
- Re-label UI for clarity of function

Performance

- Investigate system lags
- Implement progressive feedback UI
- Implement performance analytics
- ✦ Implement user feedback channels

Employee ID

- ◆ Facilitate user control frequency of Authentication

Support

- Implement tutorials, support documentation, tooltips and on-boarding walk-throughs
- Implement user support channels.

Problem statement workshops

What

What is the issue? What are the boundaries of the problem

Who

Who does the problem affect?
Specific groups, organizations, customers, etc.

When

When does the issue occur?
When does it need to be fixed?

How might we...?

Where

Where is the issue occurring? Only in certain locations, processes, products

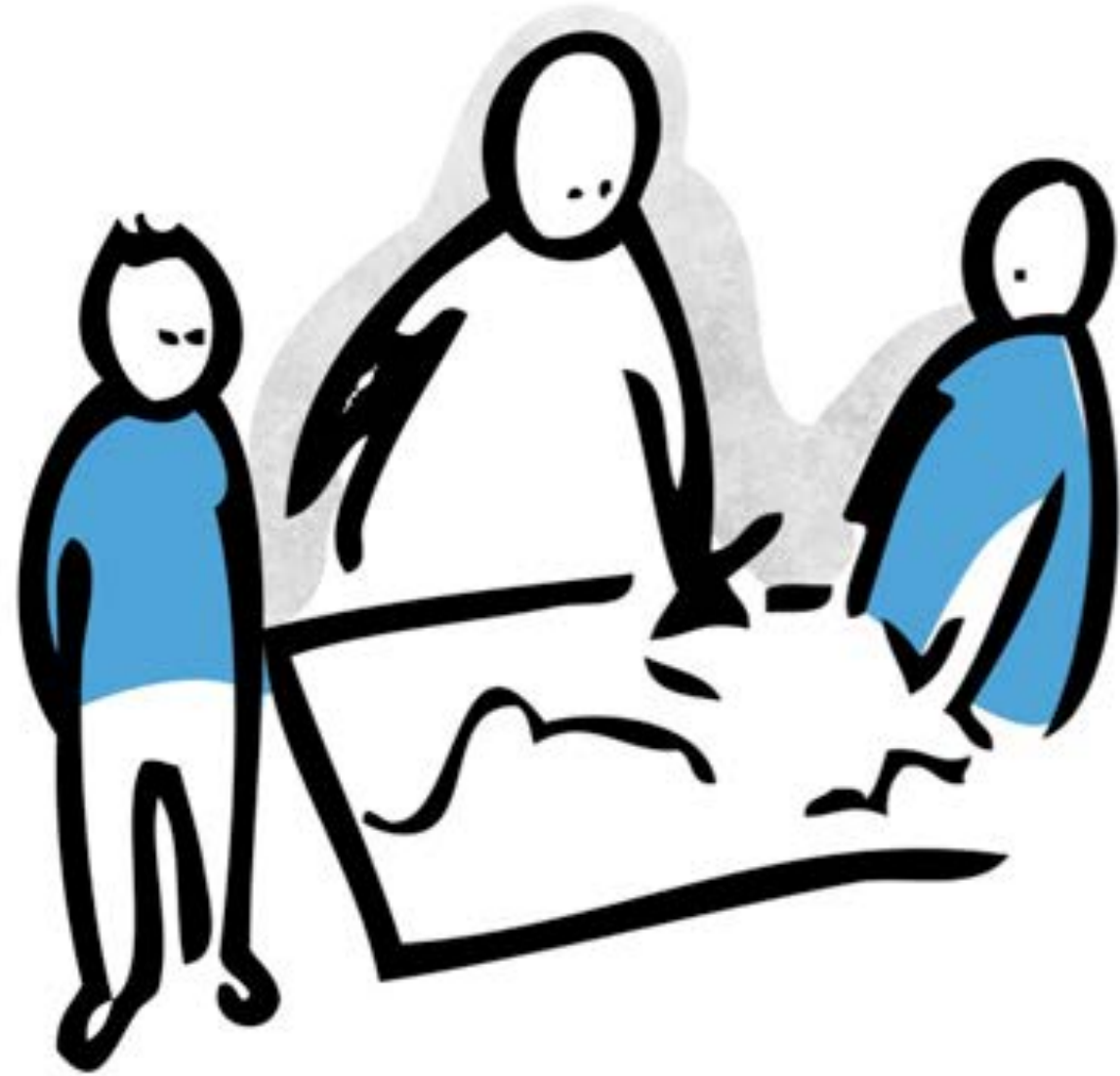
By

What are the actions needed to try to solve the problem?

So that

What are the outcomes desired by people and organisations?

Co-design sessions



We will hold collaborative sketch sessions in a design sprint which will aim to understand the contexts of our users and solve the problems identified together before we go to test them with users.

Prototype and test



To ensure we are solving the problems identified, we will always test with our users when we are getting it right and learn when we need to do better.



Q&A

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