# Indicaa Group

Container shipment application development

# Problems

Indicaa approached us to provide an automated system to track and report their container shipments worldwide. The main issues they are facing in their current operations are:

- No centralized administrative system to track the loading operations.
- Duplication of work
- Time Consuming works
- No real time data availability
- No centralized system to stock loading photos, weight slips etc.
- Not able to track overweight containers.
- No centralized monitoring system to check container loading.
- No automatic system exists to understand the changes made in LR.
- No automatic system exists for generating report from the global operation.
- No generation of Big Data for analysis.
- Multiple versions of the same excel data are circulated for the same containers
- Lack of automated report generation.
- Lack of log sheet

# Operations

## YARD

### INSPECTORS

Feed all container details ( container number, booking number, country of origin , materials etc) in to an excel sheet. Inspectors will take photos of each containers with materials, with out materials, sealed container etc. All these will be emailed to their country manager.

## COUNTRY OFFICE

### COUNTRY MANAGER

Country manager will review the excel sheet and photos received from each inspectors.

He will enter the POD, commission, order number and do the shipping calculation (in multiple currencies) in excel using the formulae.

## HEAD OFFICE

### EMO

HQ receives multiple excel sheets from all the country managers along with the photos of each containers.

Shipping Manager will create necessary reports.

# Proposed solution

YARD

INSPECTORS

A mobile application for Inspectors in the yard to feed the container loading data and images. Mobile app is designed to operate in offline mode and upload the data/images to server once the application comes online with internet connectivity

COUNTRY OFFICE

COUNTRY MANAGER

Web application for country managers to input the data's and verify the uploaded data by the inspectors. All calculations are automated.

HEAD OFFICE

EMO (ADMIN)

Web application for EMO office to generate any kinds of reports. Search by container number, yard, inspector name etc. EMO can view and track country/port wise shipment activities. He can check number of containers in CRS, how many are inspected and verified by the country manager. Monitor the changes made by the country manager in LR.

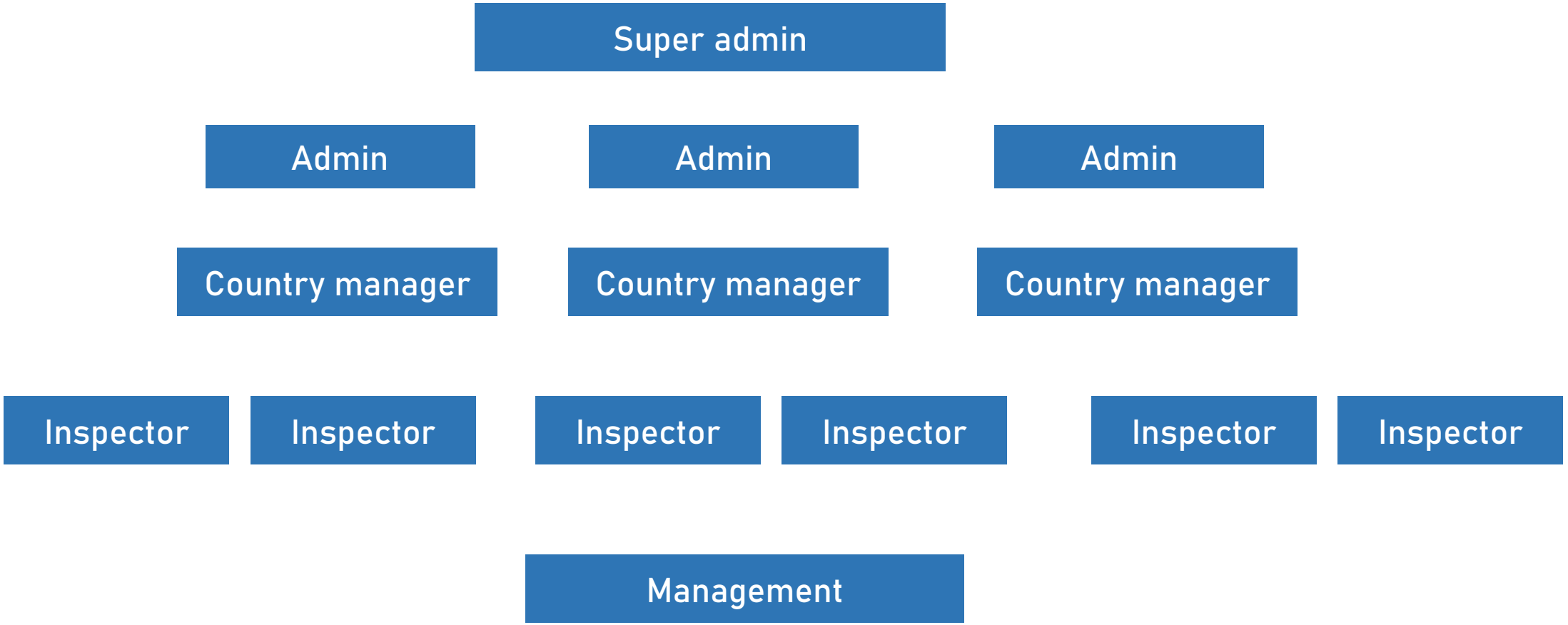
SUPER ADMIN

SUPER ADMIN

Manage the entire operation and have full access to the system.

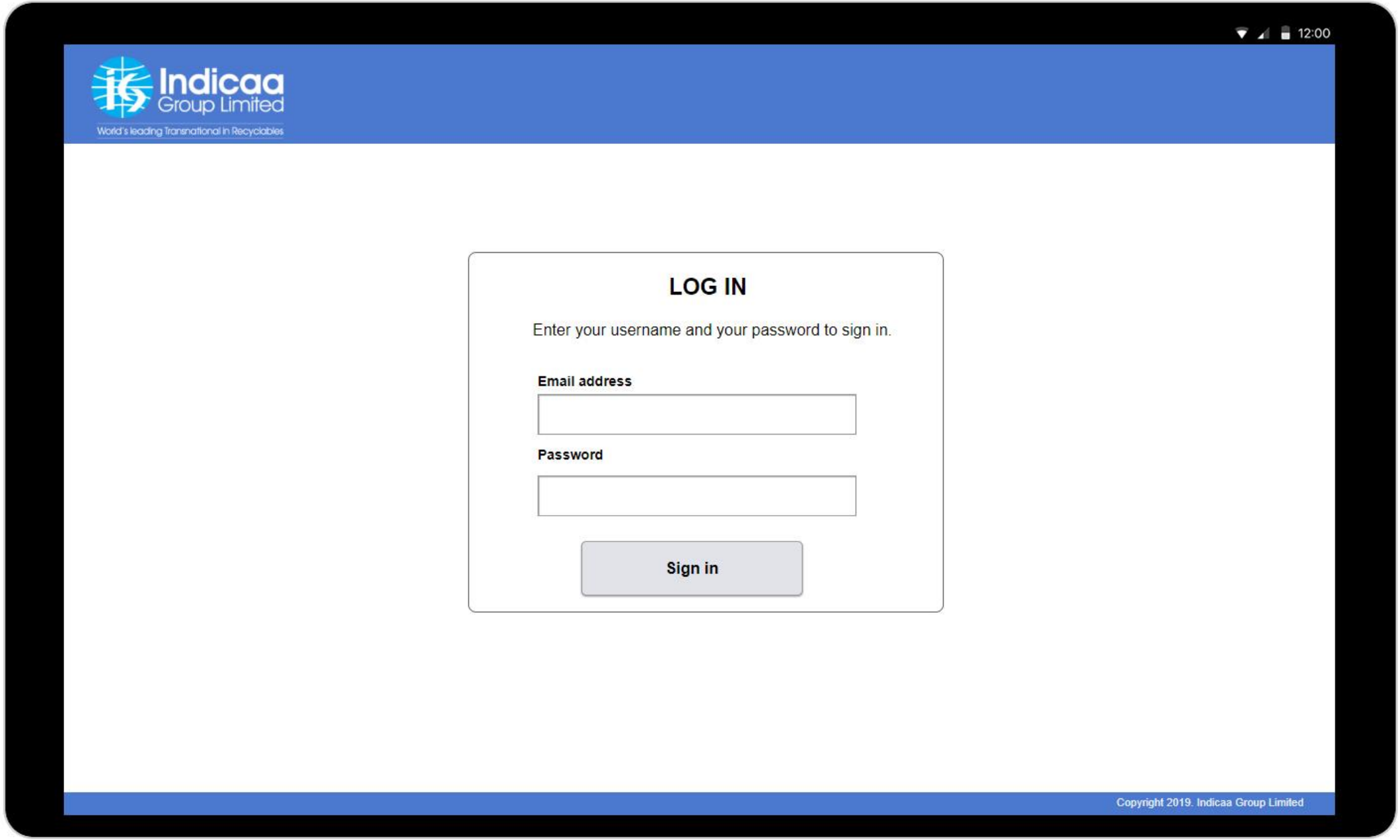
# User levels

# User levels

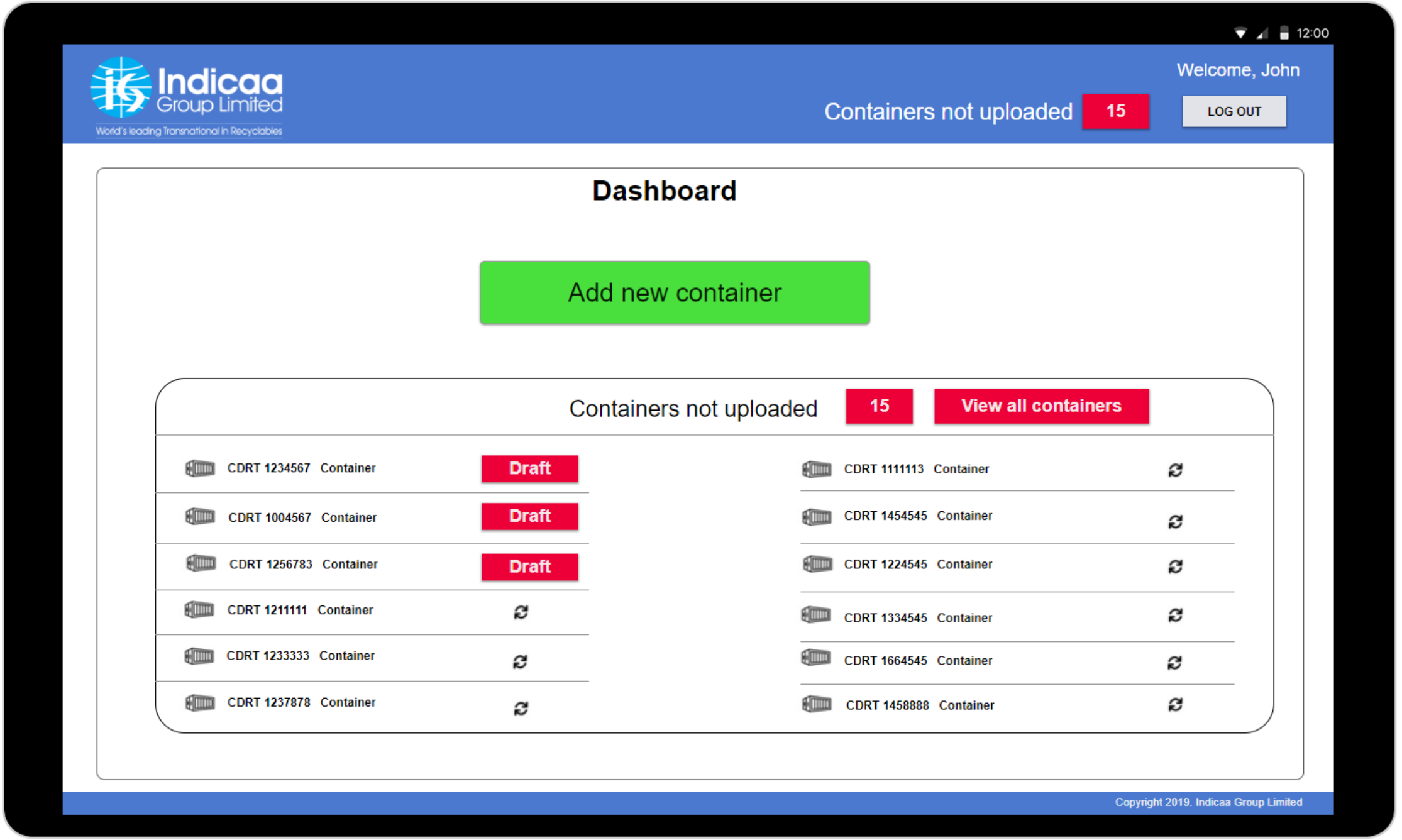

Super admin
Admin
Admin
Admin
Country manager
Country manager
Country manager
Inspector
Inspector
Inspector
Inspector
Inspector
Inspector
Management

# User Journey – Inspector

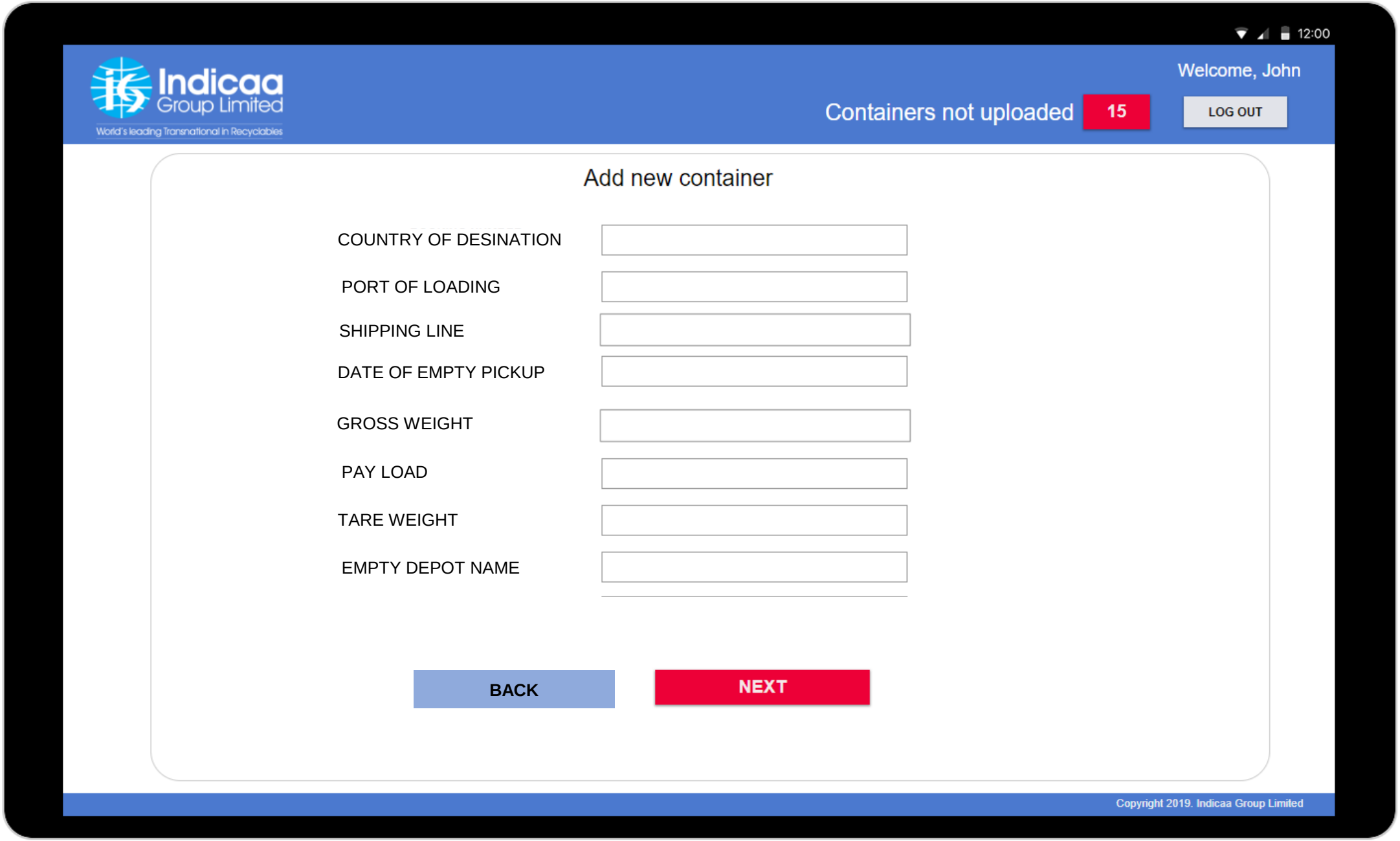
# Mobile Application - Inspector



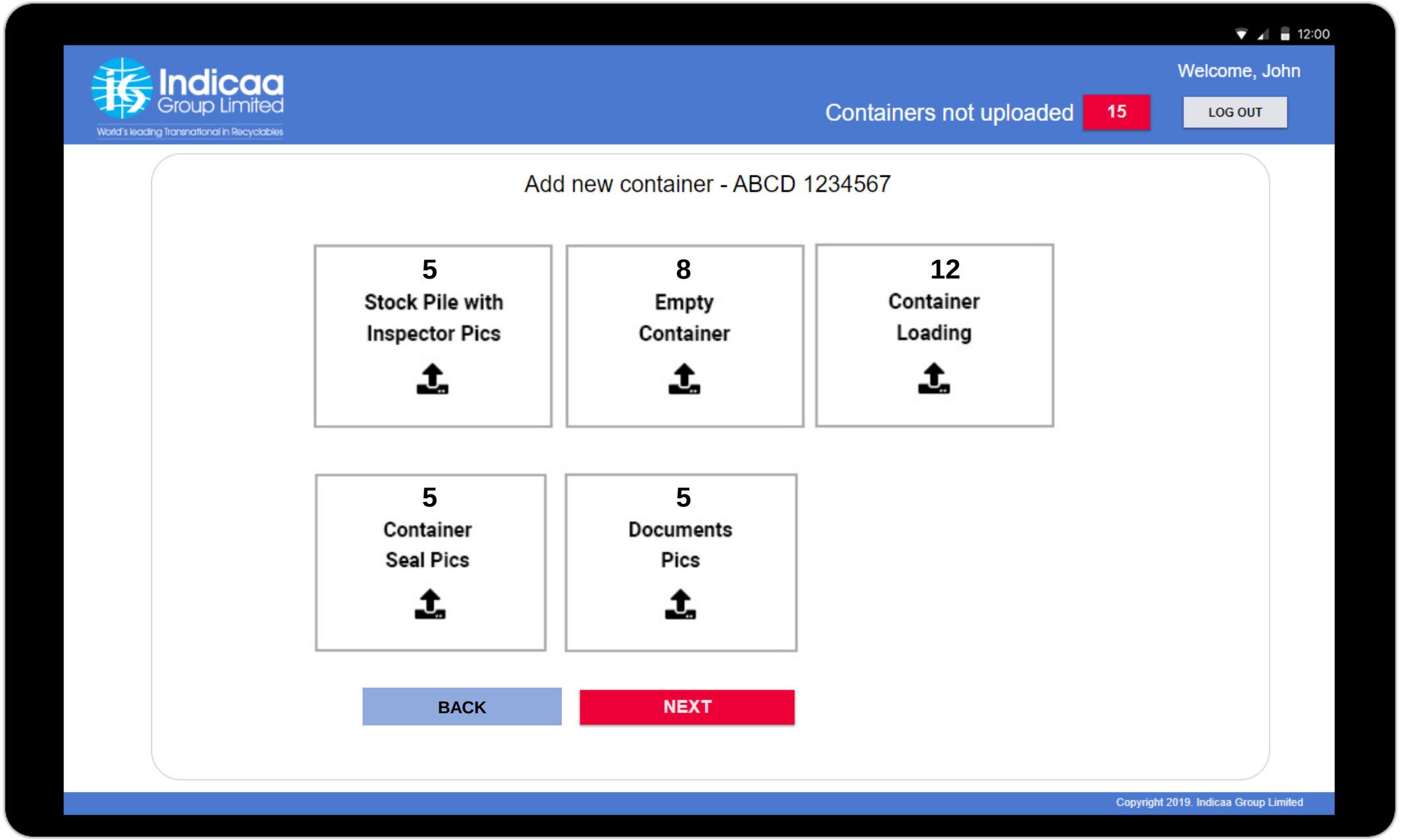
# Mobile Application - Inspector



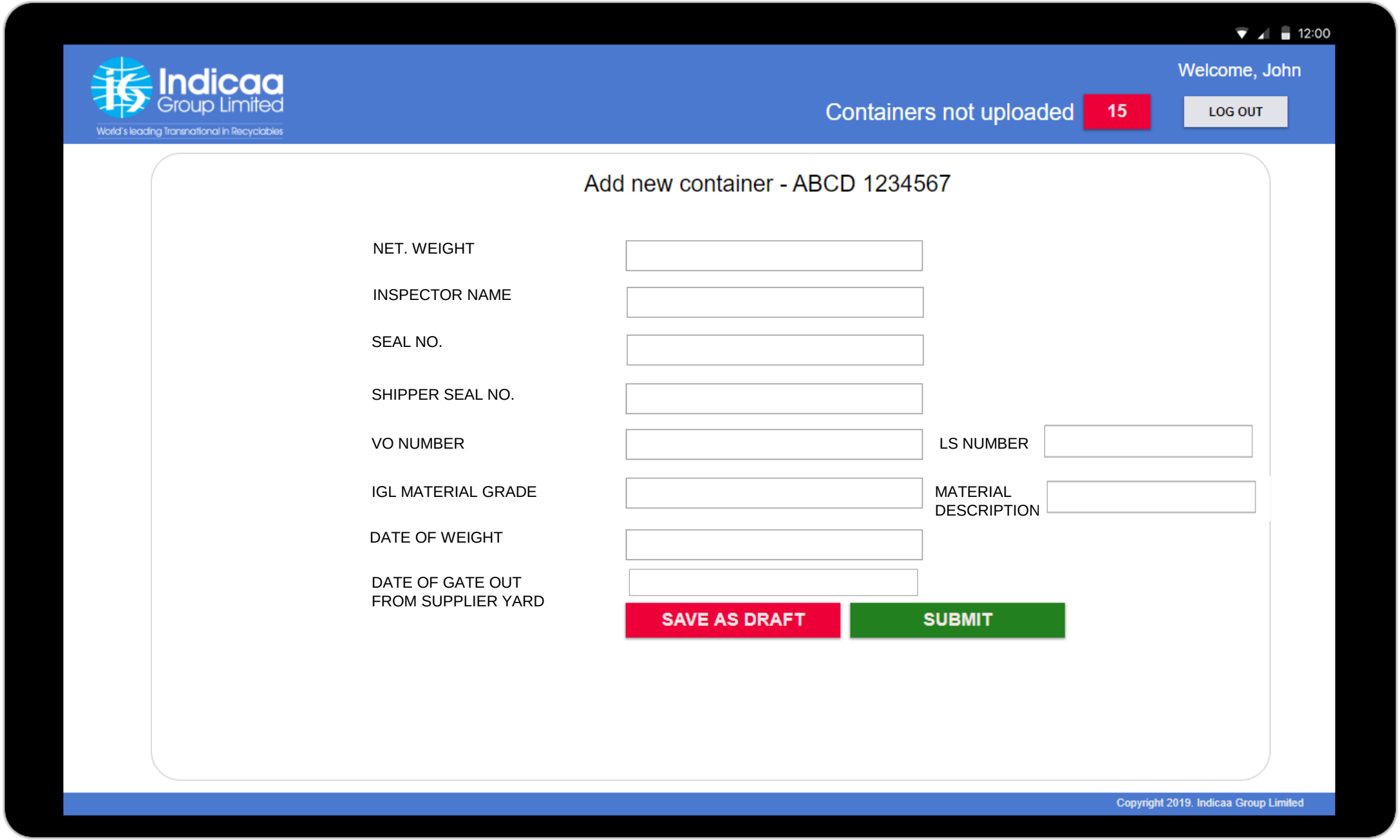
# Mobile Application - Inspector



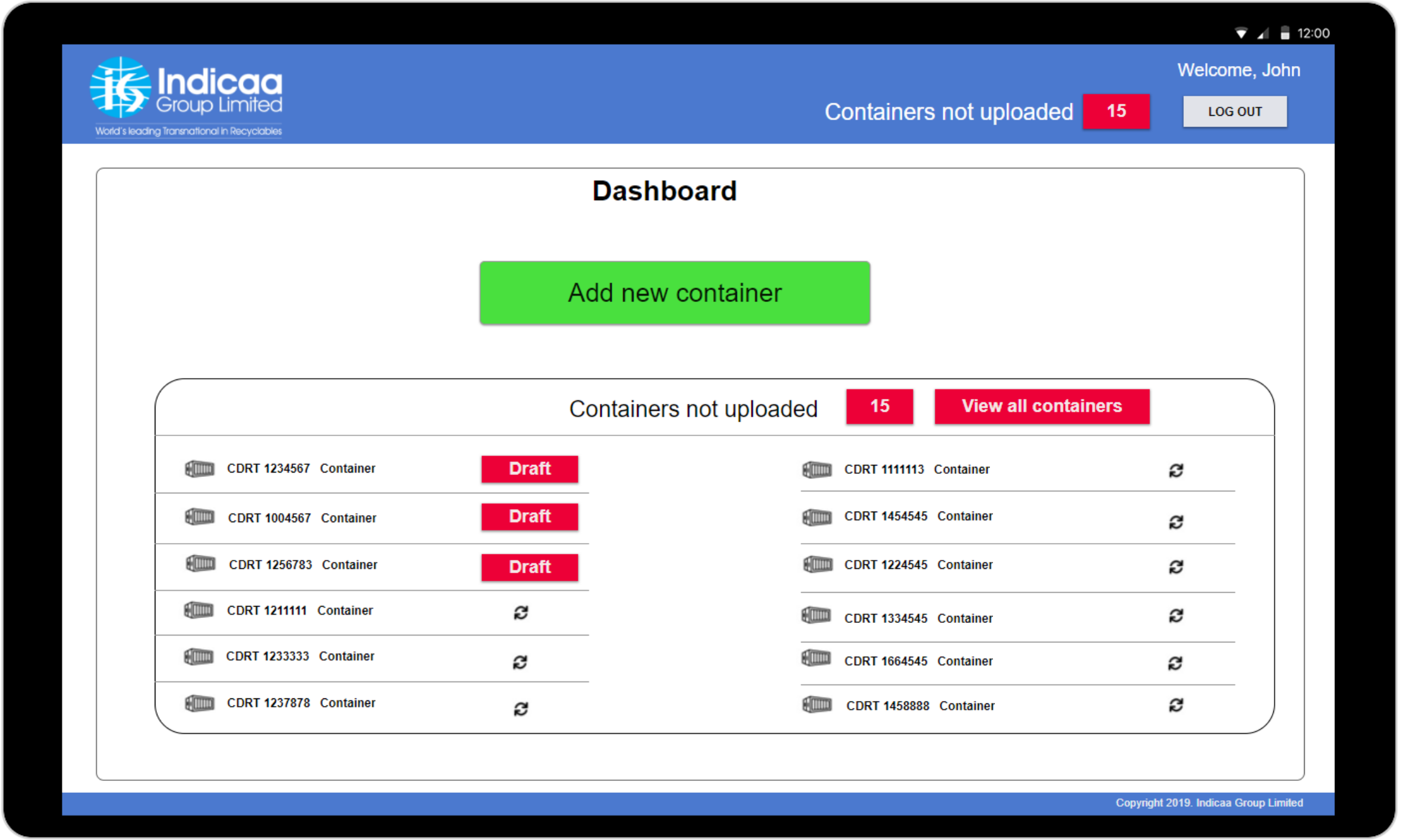
# Mobile Application - Inspector



# Mobile Application - Inspector

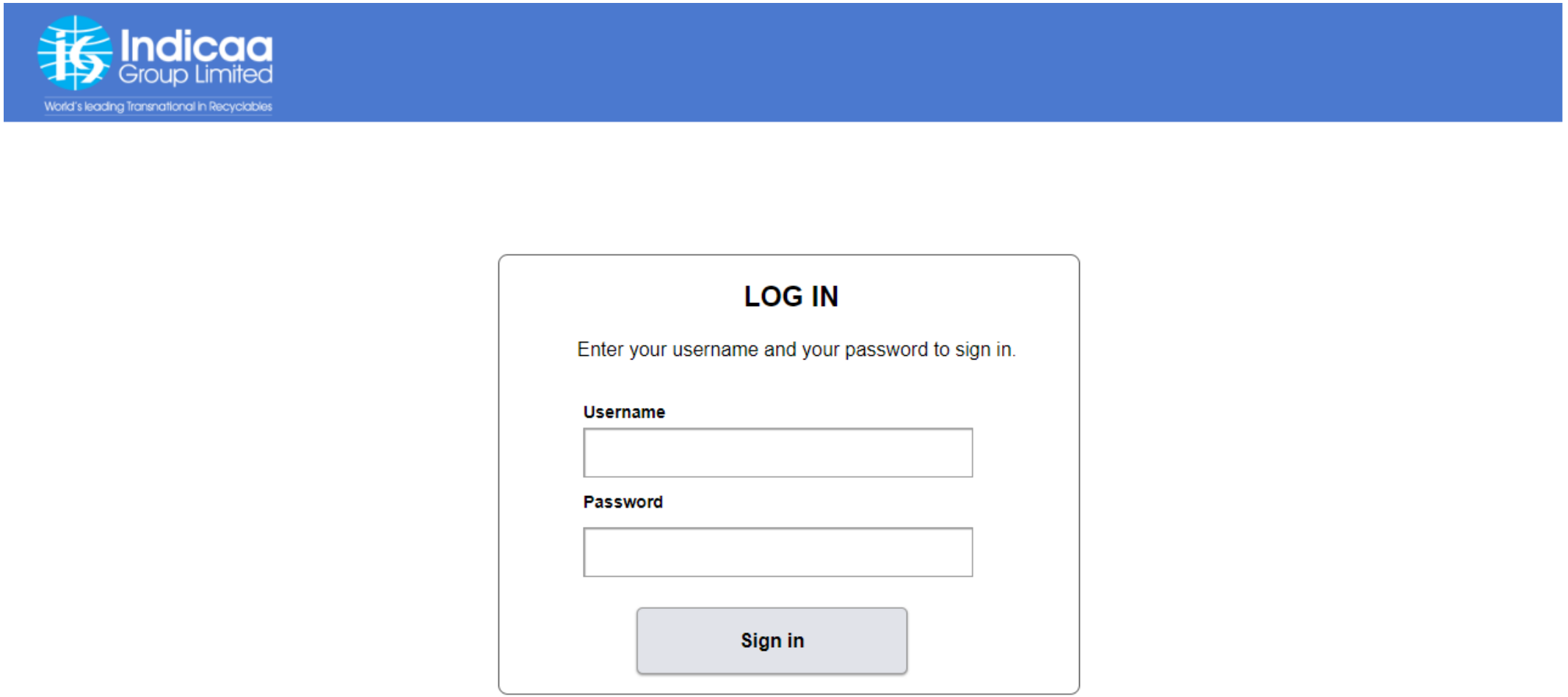


# Mobile Application - Inspector

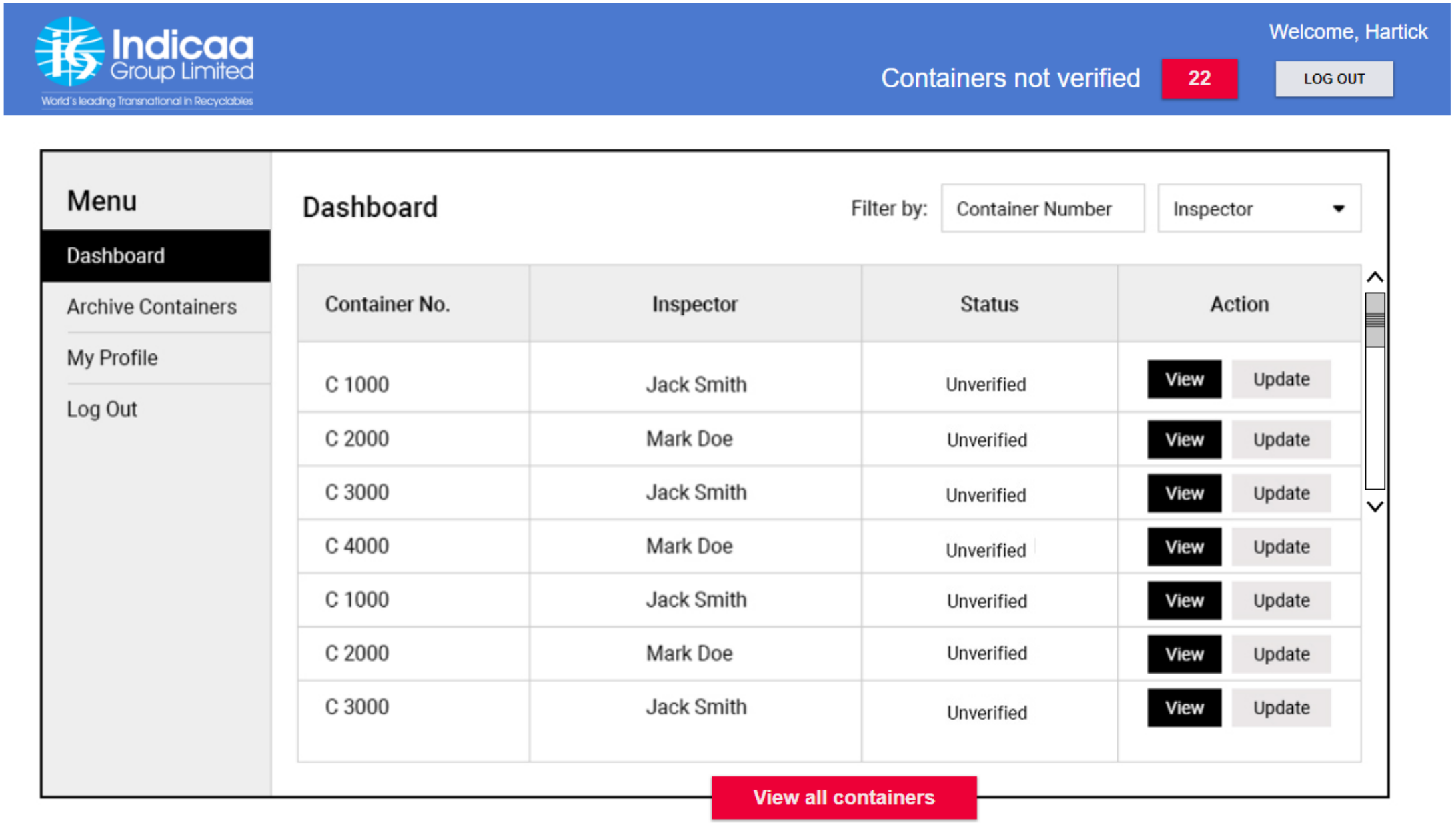


# User Journey – Country Manager

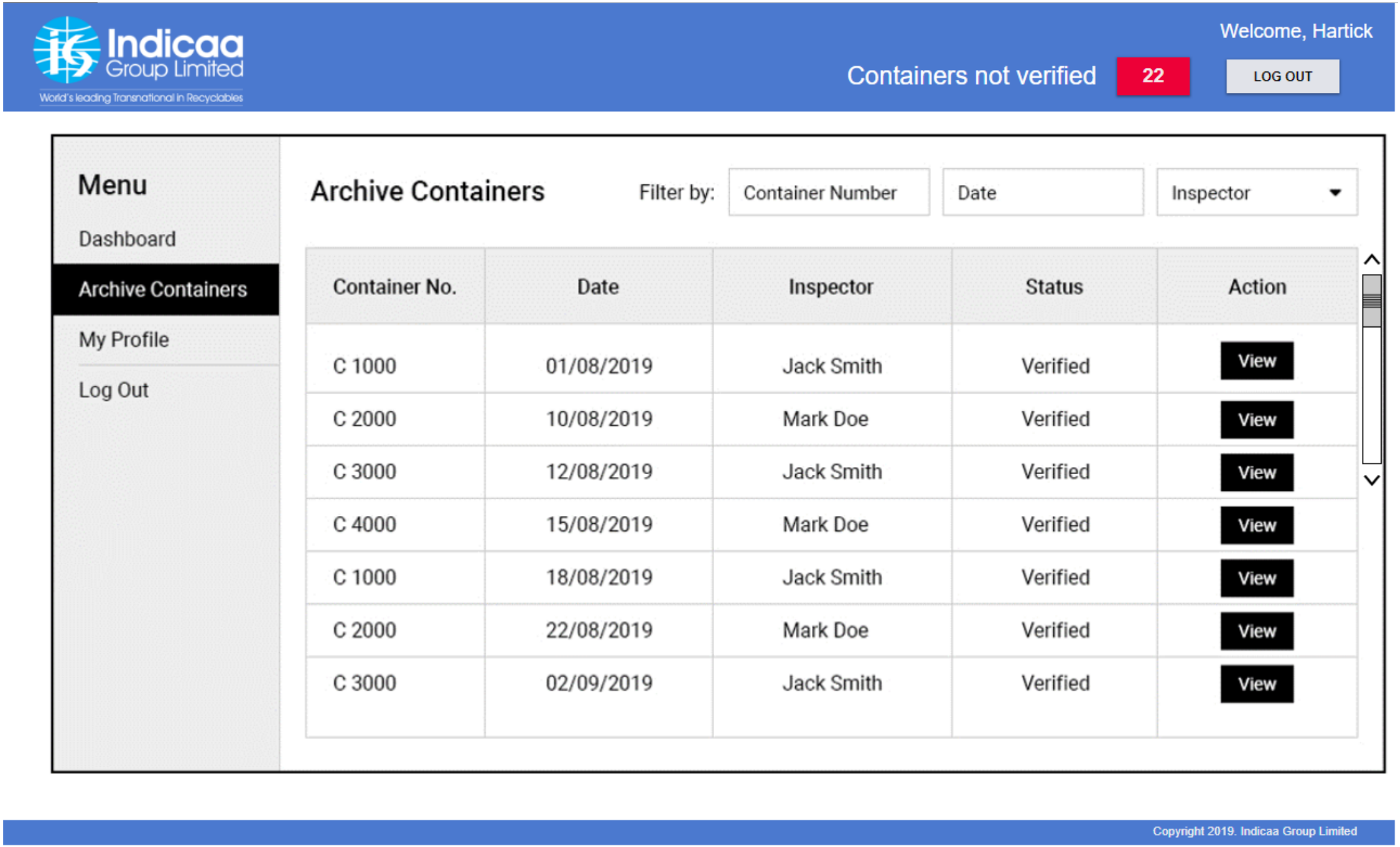
# Country Manager



# Country Manager



# Country Manager



# Country Manager

Indicaa Group Limited
World's leading Transnational in Recyclables

Welcome, Hartick

Containers not verified 22

LOG OUT

**Menu**

- Dashboard
- Archive Containers
- My Profile
- Log Out

## Verify Container #C1000

| | INSPECTOR | CORRECT INFORMATION |
|---|---|---|
| Country : | Australia | |
| Container No. : | #C1000 | |
| Gross Weight : | 11,300kg | |
| Tare Weight : | 1,300kg | |
| Supplier Name : | oxfam | |
| Place of Loading : | Batemans Bay | |
| Booking No. : | C0185672 | |
| Shipping Line : | Taroona | |
| Pod : | Putka | |
| Seal No : | 01234567 | |
| Item Code : | CD123456 | |
| Description : | Domestic services | |
| Net Weight : | 2,300 kg | |
| VO Number : | 1205846 | |
| LS Number : | 3245846 | |

| | PER TON | PER TEU |
|---|---|---|
| COMMISOIN TO AGENT PER TEU /(US$) COMMISSION TO AGENT | | |
| EXTRA ORDINARY EXPENSE | | |
| NAME OF FORWARDING AGENT/ TRUCKING COMPANY | | |
| ORDER NUMBER | | |
| POD / FINAL DESTINATION | | |
| PURCHASE RATE | | |
| NAME OF TURN IN DEPOT NAME | | |
| DATE OF TURN IN | | |

VERIFY

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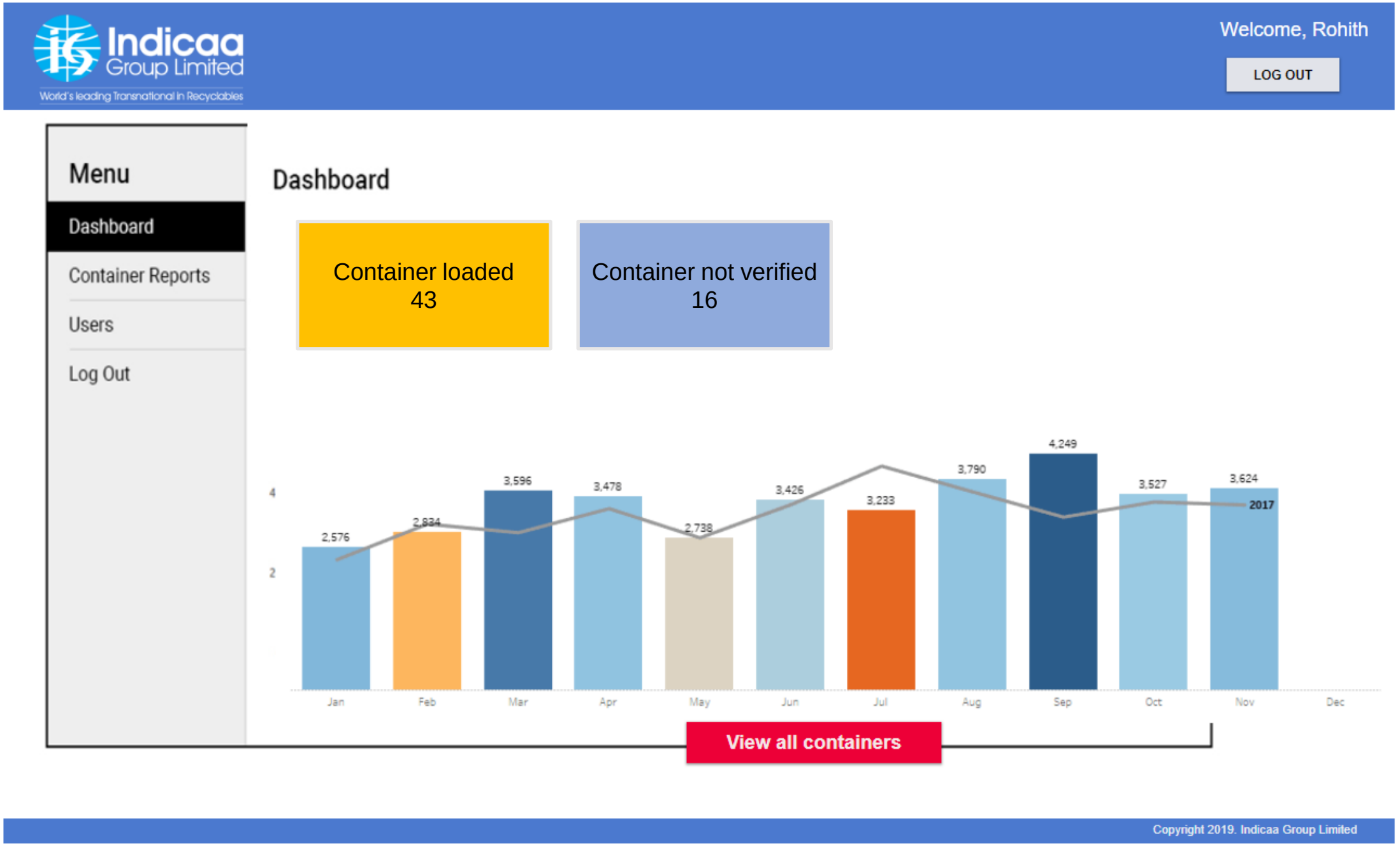
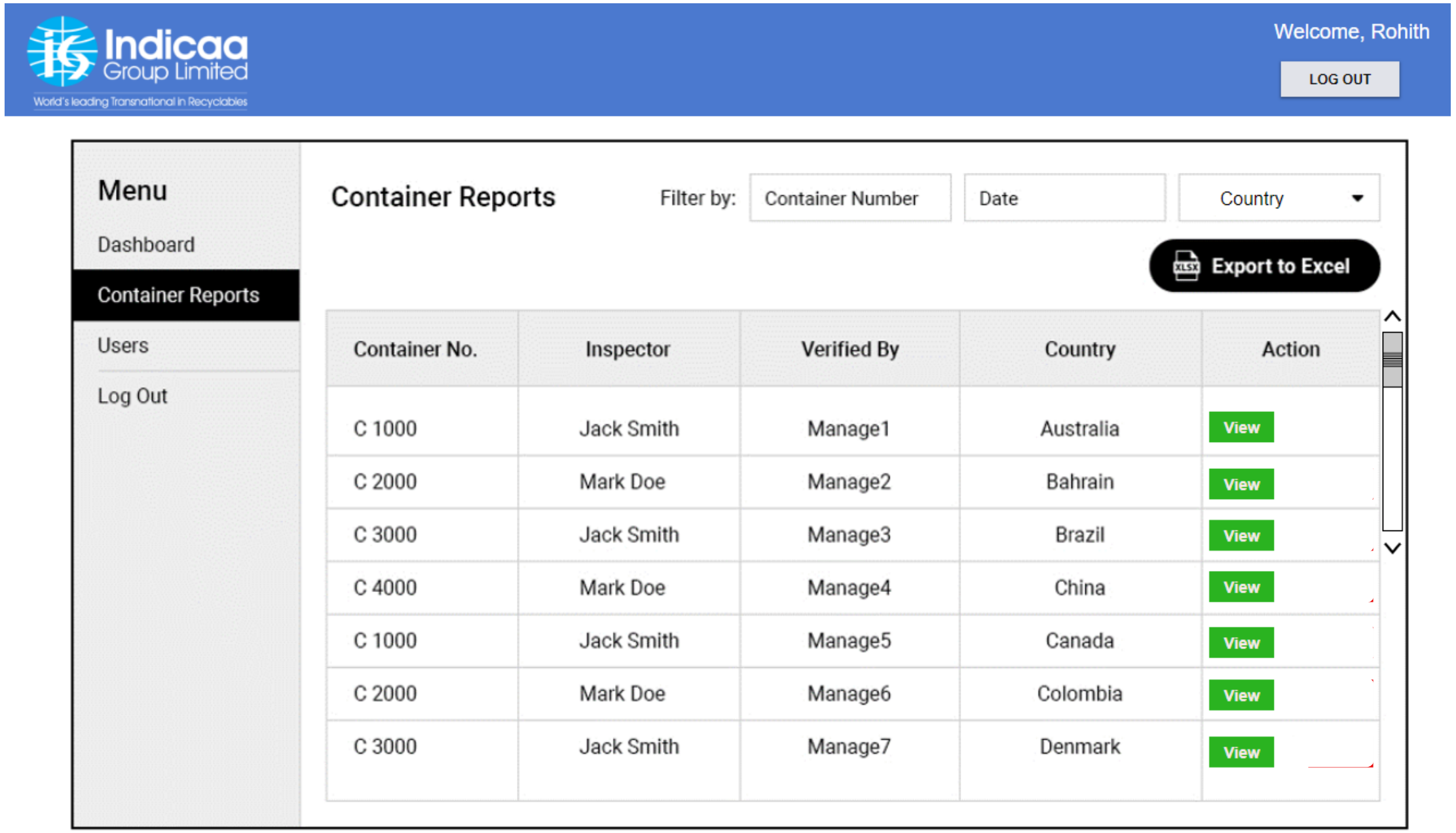
# User Journey – Admin

# Admin

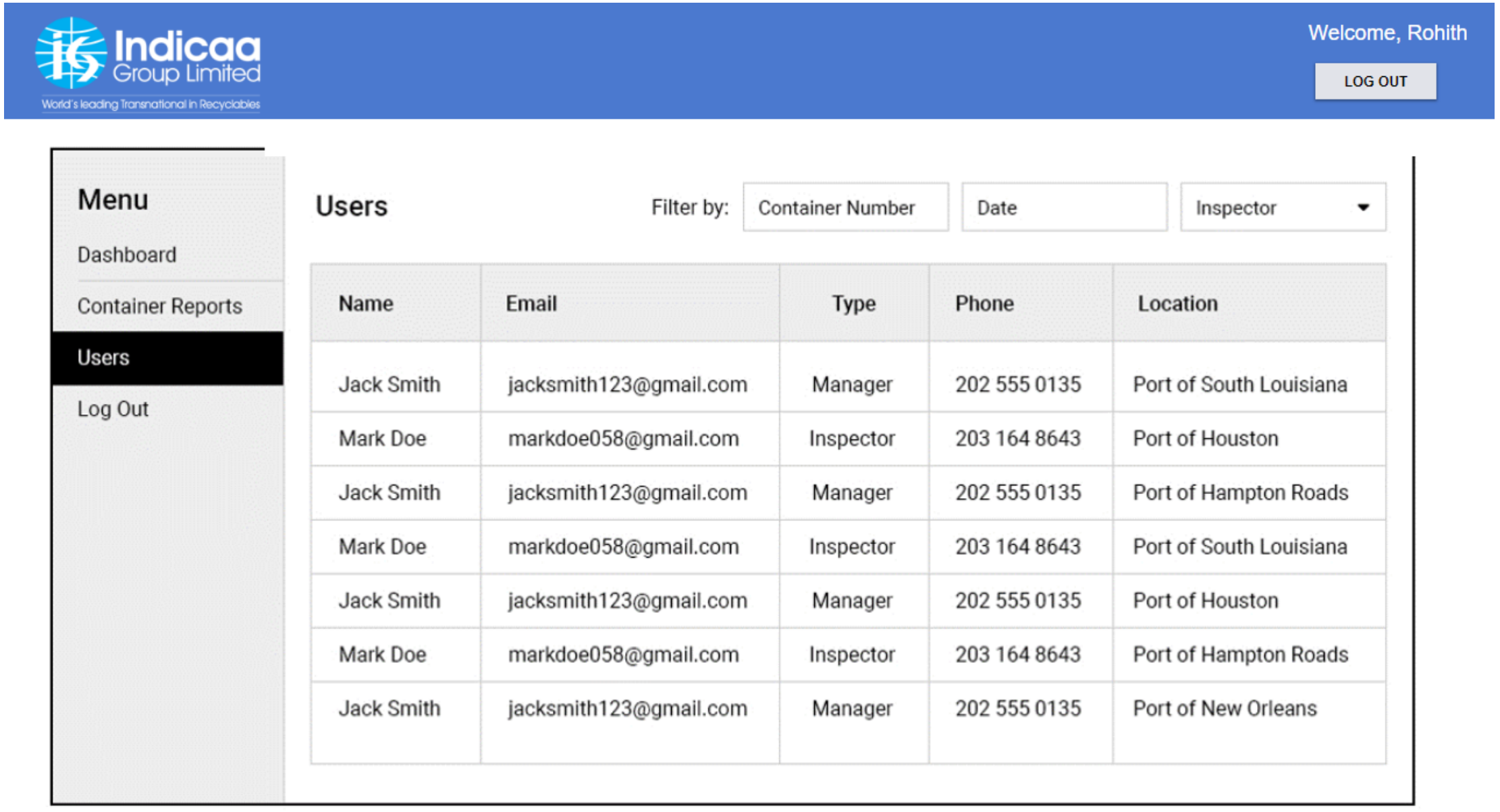

Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Rohith
LOG OUT
Menu
Dashboard
Container Reports
Users
Log Out
Dashboard
Container loaded
43
Container not verified
16
4
2
2,576
2,834
3,596
3,478
2,738
3,426
3,233
3,790
4,249
3,527
3,624
2017
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
View all containers
Copyright 2019. Indicaa Group Limited

# Admin




Copyright 2019. Indicaa Group Limited

# Admin


Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Rohith
LOG OUT
Menu
Dashboard
Container Reports
Users
Log Out
Users
Filter by:
Container Number
Date
Inspector
Name
Email
Type
Phone
Location
Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of South Louisiana
Mark Doe
markdoe058@gmail.com
Inspector
203 164 8643
Port of Houston
Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of Hampton Roads
Mark Doe
markdoe058@gmail.com
Inspector
203 164 8643
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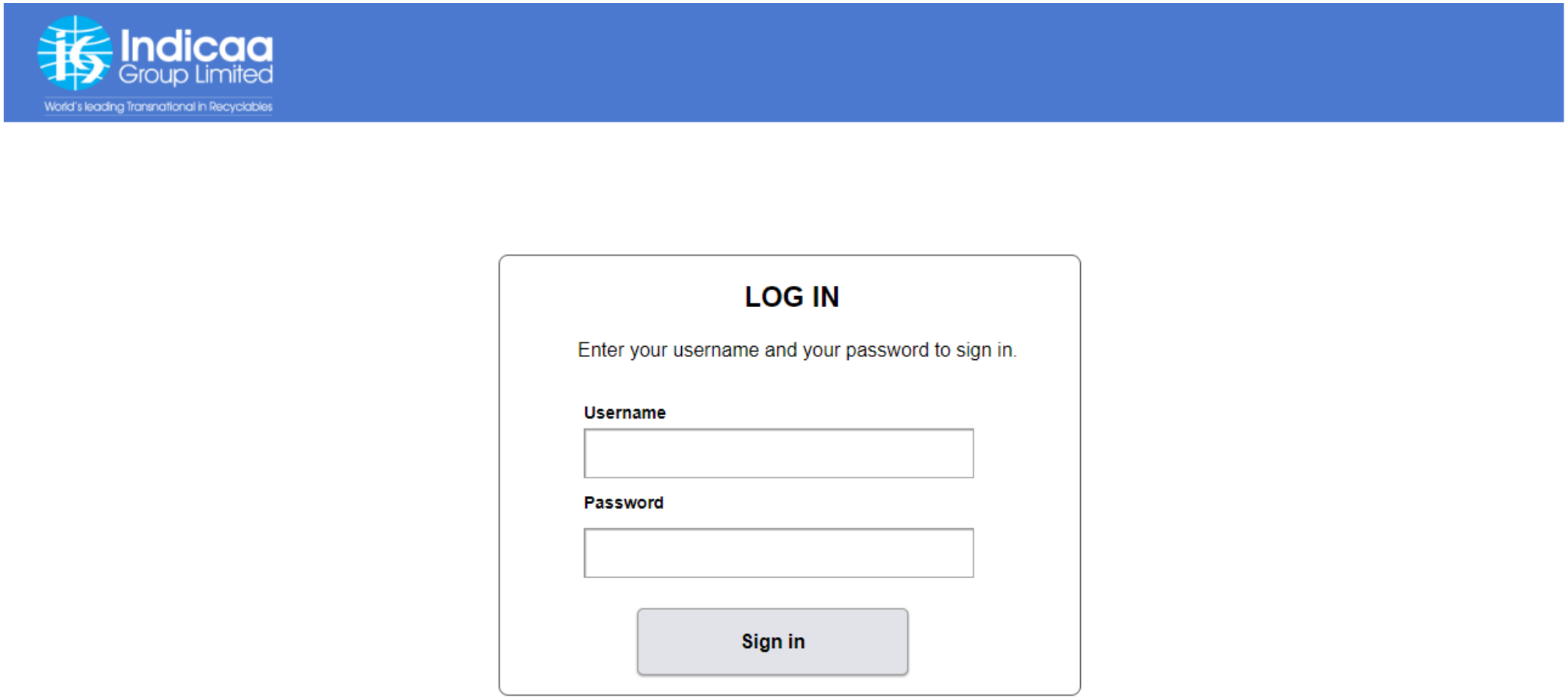
202 555 0135
Port of Houston
Mark Doe
markdoe058@gmail.com
Inspector
203 164 8643
Port of Hampton Roads
Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of New Orleans
Copyright 2019. Indicaa Group Limited

# User Journey – Super Admin

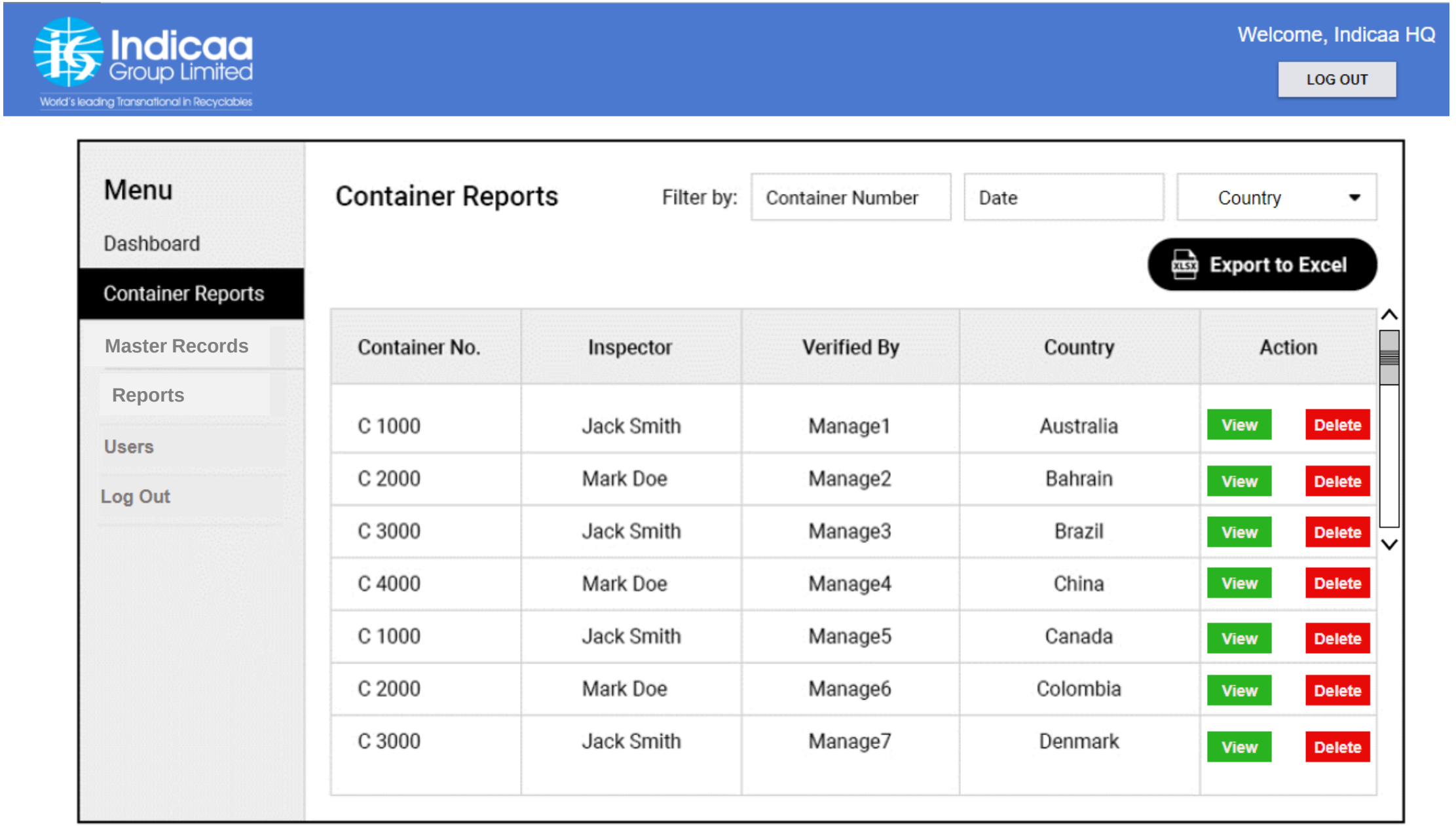
# Super admin


Indicaa
Group Limited
World's leading Transnational in Recyclables
LOG IN
Enter your username and your password to sign in.
Username
Password
Sign in
Copyright 2019. Indicaa Group Limited

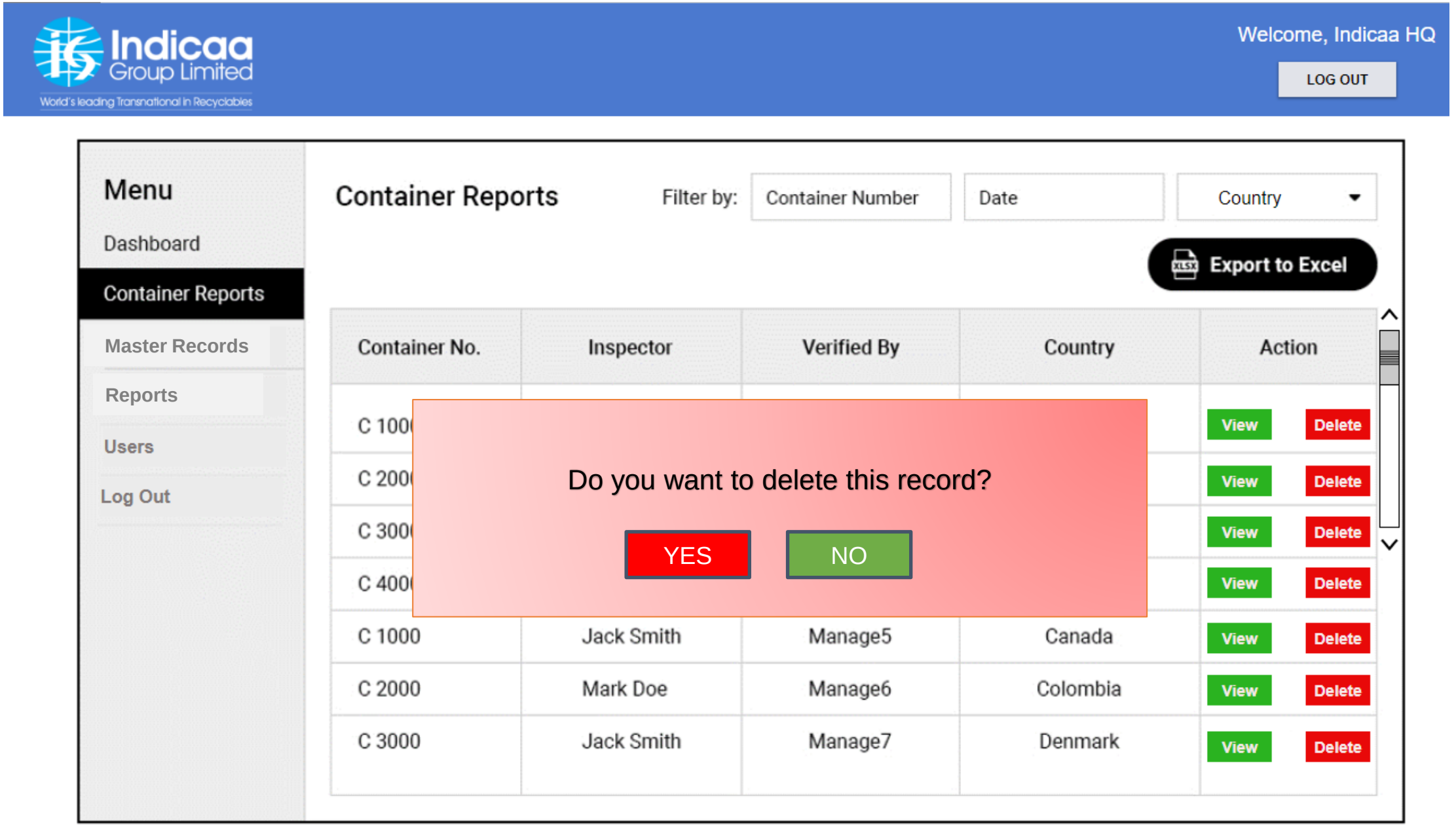
# Super admin

Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Indicaa HQ
LOG OUT
Menu
Dashboard
Container Reports
Master Records
Reports
Users
Log Out
Dashboard
Filter by:
Country
Containers by country of orgin
2,576
2,834
3,596
3,478
2,738
3,426
3,233
3,790
4,249
3,527
3,624
2017
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
View all containers
Copyright 2019. Indicaa Group Limited

# Super admin


Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Indicaa HQ
LOG OUT
Menu
Dashboard
Container Reports
Master Records
Reports
Users
Log Out
Container Reports
Filter by:
Container Number
Date
Country
Export to Excel
Container No.
Inspector
Verified By
Country
Action
C 1000
Jack Smith
Manage1
Australia
View
Delete
C 2000
Mark Doe
Manage2
Bahrain
View
Delete
C 3000
Jack Smith
Manage3
Brazil
View
Delete
C 4000
Mark Doe
Manage4
China
View
Delete
C 1000
Jack Smith
Manage5
Canada
View
Delete
C 2000
Mark Doe
Manage6
Colombia
View
Delete
C 3000
Jack Smith
Manage7
Denmark
View
Delete
Copyright 2019. Indicaa Group Limited

# Super admin


Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Indicaa HQ
LOG OUT
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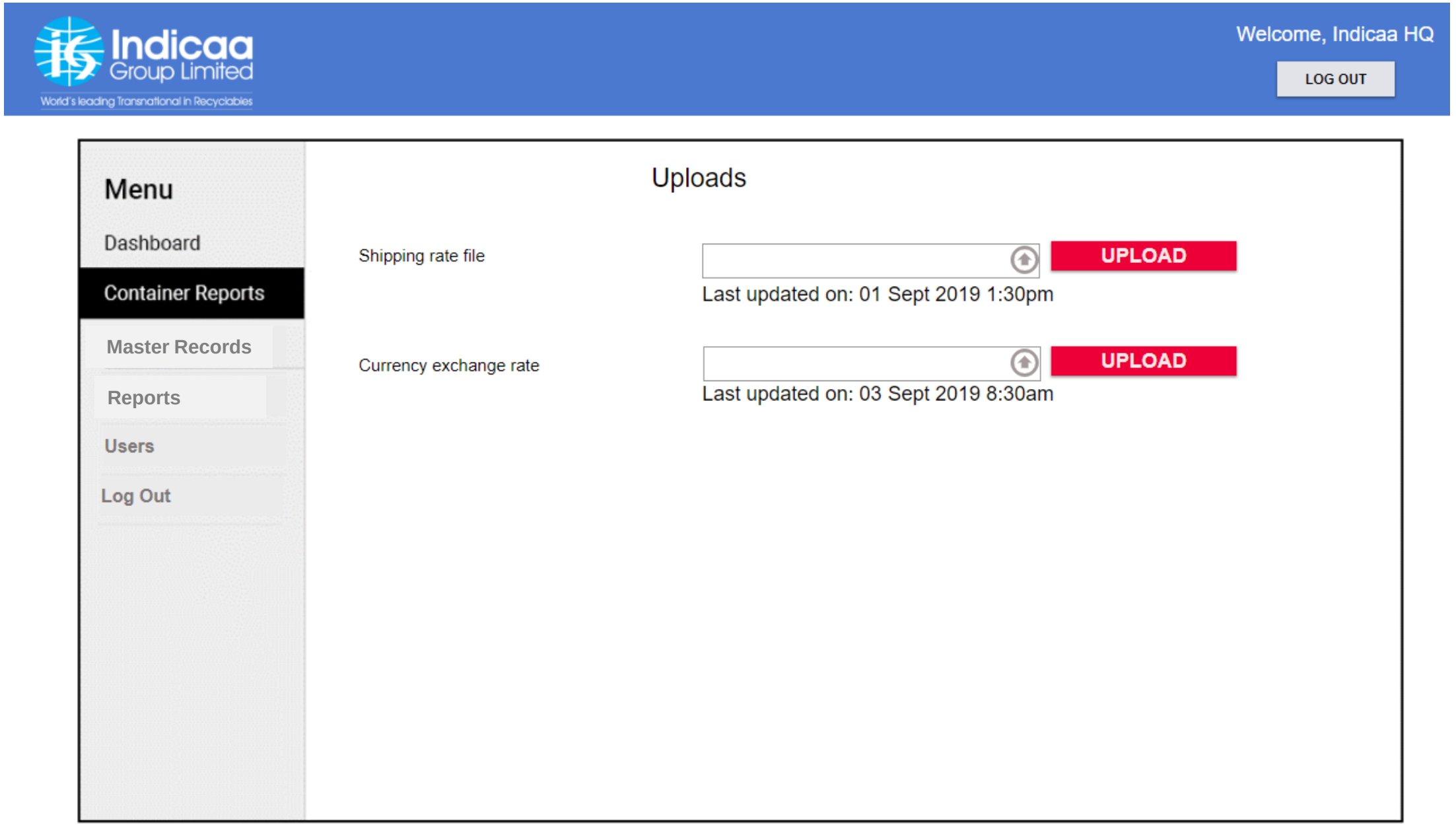
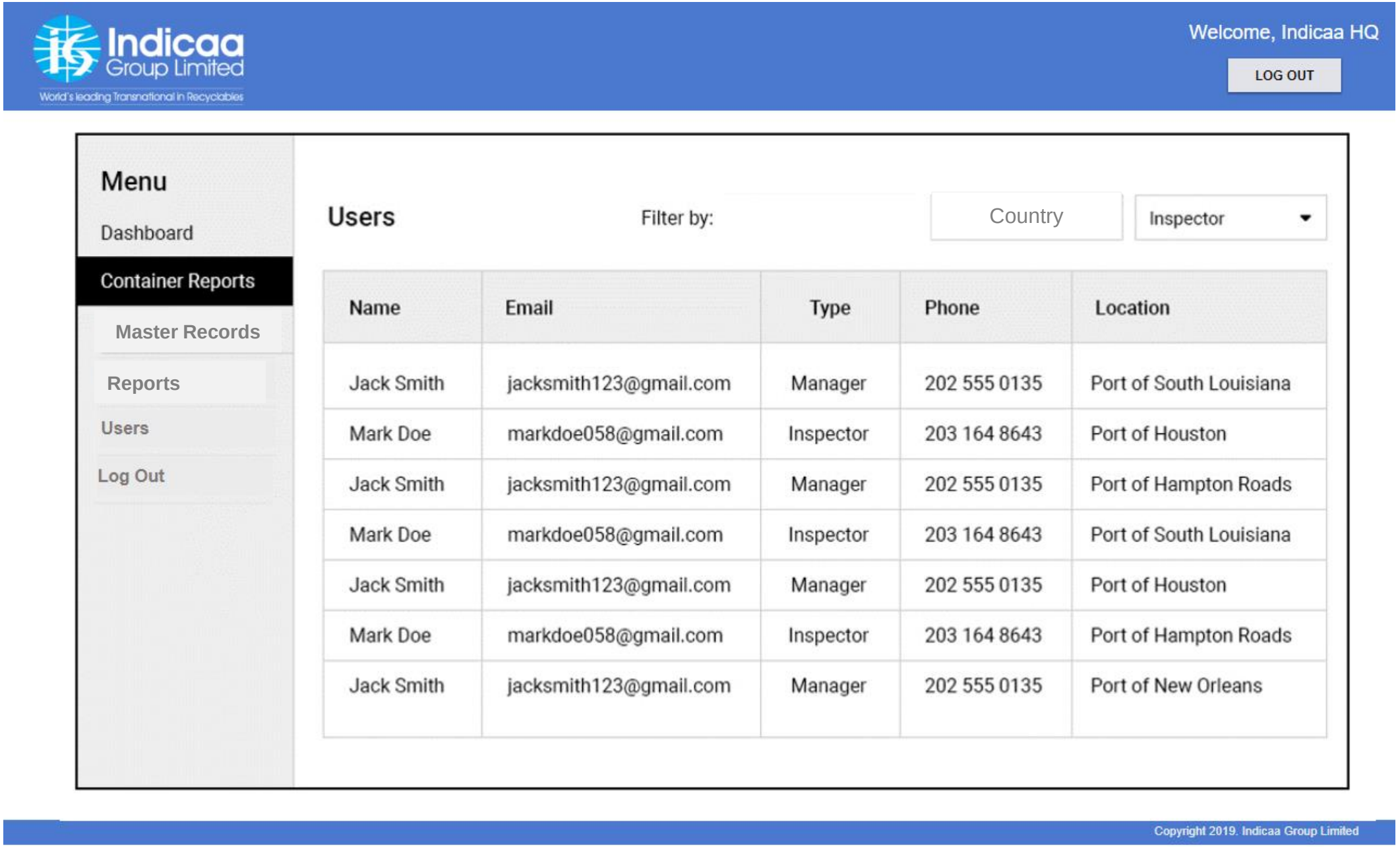
Dashboard
Container Reports
Master Records
Reports
Users
Log Out
Container Reports
Filter by:
Container Number
Date
Country
Export to Excel
Container No.
Inspector
Verified By
Country
Action
C 1000
Jack Smith
Manage5
Canada
C 2000
Mark Doe
Manage6
Colombia
C 3000
Jack Smith
Manage7
Denmark
View
Delete
Do you want to delete this record?
YES
NO
Copyright 2019. Indicaa Group Limited

# Super admin


Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Indicaa HQ
LOG OUT
Menu
Dashboard
Container Reports
Master Records
Reports
Users
Log Out
Uploads
Shipping rate file
UPLOAD
Last updated on: 01 Sept 2019 1:30pm
Currency exchange rate
UPLOAD
Last updated on: 03 Sept 2019 8:30am
Copyright 2019. Indicaa Group Limited

# Super admin


Indicaa Group Limited
World's leading Transnational in Recyclables
Welcome, Indicaa HQ
LOG OUT
Menu
Dashboard
Container Reports
Master Records
Reports
Users
Log Out
Users
Filter by:
Country
Inspector
Name
Email
Type
Phone
Location
Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of South Louisiana
Mark Doe
markdoe058@gmail.com
Inspector
203 164 8643
Port of Houston
Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of Hampton Roads
Mark Doe
markdoe058@gmail.com
Inspector
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Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of Houston
Mark Doe
markdoe058@gmail.com
Inspector
203 164 8643
Port of Hampton Roads
Jack Smith
jacksmith123@gmail.com
Manager
202 555 0135
Port of New Orleans
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# User Journey – Management

Indicaa Group Limited

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Enter your ID

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Container shipment for the past 2 days from
**DUBAI**

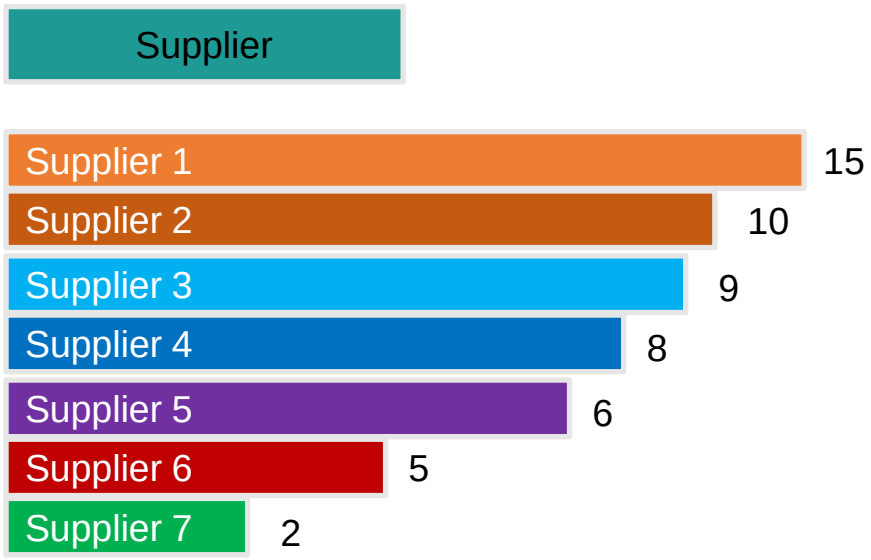
Month

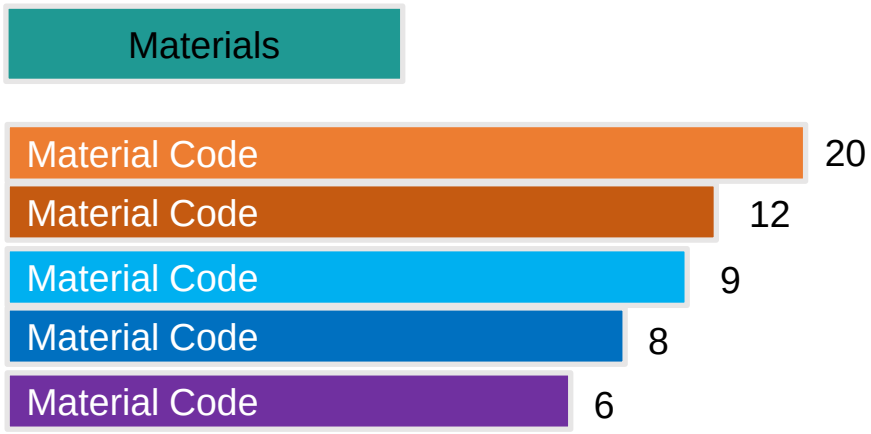
Year

Container loaded
55

Container not verified
10

Container verified
45



# Features(proposed)

# Mobile application – Inspectors

- Login screen
- Dashboard
    - Add new container
    - List of containers added on the current day and their status
- Add new container
- Fill the container form along with images
    - store images offline
    - reduce the size of the images while upload
    - add timestamp to each image
    - save image as a single pdf file for each category for admin to view
    - After images are successfully uploaded it will be automatically deleted from the tab.
    - Add new field booking reference (dropdown)

# Web application - Country Managers

- Login screen
- Dashboard
    - To view the snapshot of all containers uploaded by inspectors along with the status
    - View and update each containers from dashboard
    - option to filter the containers
- Archive containers
    - details for each containers uploaded
    - View and update each containers and some fields are specifically for managers have to fill for each containers
    - option to filter the containers based on defined criteria
- Profile
    - Update login password, location etc
- Inco Terms – add new field
- Enter Currency values on based on the port of orgin. Exchange rate will be calculated based on the current exchange value entered.

# Web application - Admins

- Login screen
- Dashboard
    - view the snapshot of all activities of inspectors, managers
    - option to view country/ region specific activities
    - number of containers added/verified etc
- Container Reports
    - snapshot of each containers uploaded (region specific)
    - modify container details uploaded by inspector/manager
    - filter the containers based on defined criteria
    - exports records to excel
- Users
    - Mange inspectors/managers - add, modify, delete the access for each

# Web application – Super Admin

- Login screen
- Have all the functionalities of admin
- Manage all admins
- Generate reports for the entire container operations
- Admin will add values to the below fields to the system. These values are used for calculation of LR
  - MARKETING EXPENSES / MT (US$)
  - BL FEE - 10 TEUS BASIS(USD)
  - CUSTOMS COST / TEU (USD)
  - OCEAN FREIGHT+ECA / TEU (US$)
  - PACKING DATE / CONT. LIFTING DATE
- There are two excel sheet upload options – Shipping rate sheet upload and Currency exchange rate upload. Based on these 2 excel sheet all calculation will happens.
- Run reports and save as favorites.
- Incase if there is any deletion add a note - reason for deletion.