





# Belize Cattle Tracker

User Documentation Version 1

### **Group 2 Members:**

Joanne Y.
Chimezirim A.
Rene S.
Miguel A.
Juan S.
Cameron T.



Submitted To: CMPS4131 Mr. Manuel Medina April 6, 2022

# **Table of Contents**

Table of Contents	2
Overview	3
Objective	3
About Belize Cattle Tracker	3
Using Belize Cattle Tracker	4

#### **Overview**

This document should provide a general idea of what our system does and should provide a step by step process of how users can install the software needed to successfully run our system on their end. This document also provides end users with visuals of how our interfaces work and interconnect with each other.

## **Objective**

The main objective for this documentation is to increase usability through providing thorough installation and usage instructions.

#### **About Belize Cattle Tracker**

**About:** Belize Cattle Tracker is a cattle traceability system that offers for livestock agriculture to be revolutionized and for an easier alternative to keep track of cattle information for cattles that are used to produce industry level meat produce. Belize Cattle Tracker assists BAHA in making sure that quality control is maintained when producing meat products in Belize. Belize Cattle Tracker also aims to allow our customers with an insight of cattle information, so that they can make effective decisions when purchasing produce from meat production companies who collaborate with us (Running W).

Version: 1.0

**Installation:** For users(Farmers, Slaughterhouse Managers, Packaging Managers, Customers) no installation is needed. However, for the BAHA Admin users, since they will be managing the system, there will be required software for them to install.

**System Requirements:** Belize Cattle Tracker is a web based application that is adaptable to both desktop and mobile devices.

For our desktop users (ADMINS): A device (desktop, phone, tablet) that is able to connect to the internet

Four our mobile users (Customers/ADMINS): A smart device that has a camera (rear view/back camera) with the ability to scan QR codes.

# **Using Belize Cattle Tracker**

#### **ADMIN SIDE**

#### **BAHA (Main Managers of System)**

To run the system

Install Node.js

https://www.youtube.com/watch?v=hJj2rj-nzuw&t=2s

#### Install ReactJS

https://www.youtube.com/watch?v=0twjvW0c1r0 https://www.youtube.com/watch?v=e1IQAIBJiHQ

#### Install Visual Studio Code

https://www.youtube.com/watch?v=MlIzFUI1QGA https://www.youtube.com/watch?v=JPZsB\_6yHVo

#### Log Into shared Firebase account.

https://www.youtube.com/watch?v=jCY6DH8F4oc&t=753s

#### Credentials are:

Email: <u>belizecattletracker@gmail.com</u>

Password: BzCattle

#### To do testing

Install Jest

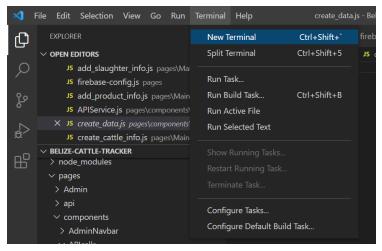
https://www.youtube.com/watch?v=Fi8RiagOFaA

https://jestis.io/docs/tutorial-react

```
Add the code below to the package.json file {
    "scripts" : {
        "test" : "jest"
     }
}
```

#### Running test on application:

1. Open a new terminal in Visual Studio Code.



2. Confirm that your terminal is in the command prompt and not the power shell.



3. Open the folder of the proper directory containing the code.

```
PS C:\Users\joann\Desktop\SEProject\Belize-Cattle-Tracker>
```

4. Verify that Jest was included in the package json file.

```
"devDependencies": {
    "eslint": "8.10.0",
    "eslint-config-next": "12.1.0",
    "jest": "^27.5.1"
}
```

5. Type the following command into the opened terminal (for integration testing): npm run test

```
C:\Users\joann\Desktop\SEProject\Belize-Cattle-Tracker>npm run test
```

6. Type the following command into the opened terminal (for unit testing): yarn test -- -t 'name of the test case'

Example: yarn test -- -t 'TC-1 Add cattle info successfully to the database with valid data'

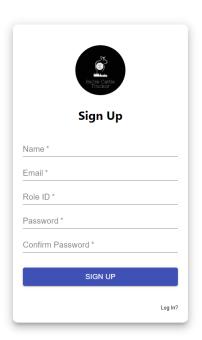
C:\Users\joann\Desktop\SEProject\Belize-Cattle-Tracker>yarn test -- -t 'TC-1 Add cattle info successfully to the database with valid data'
■

#### *To use the system*

- 1. Login with created credentials.
- 2. Access Belize Cattle Tracker ADMIN site.
- 3. Follow the steps stated below.

# Other ADMIN Users of the System (BAHA, Baha Registered → Farmers, Slaughter House Managers, Packaging Managers)

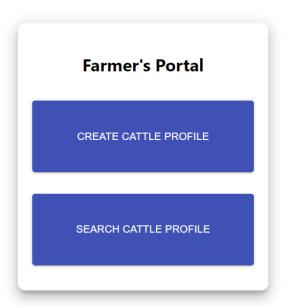
1. Sign Up for an account using desired credentials and with assigned role codes from (BAHA/system auto generation).



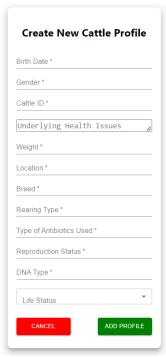
2. If you have already previously created an account with a BAHA assigned role code, Login.



3. Access your role portal. Example: A farmer accesses their farmer portal. Portals are all similar. All have a button to search for a cattle profile and add on information to the cattle profile.

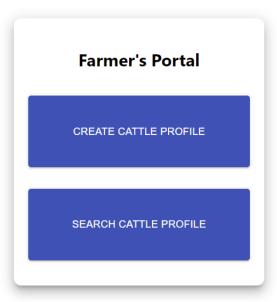


4. (eg: farmer) Selects the Create Cattle Profile button. (Slaughterhouse and Packaging Managers do not have this option → Skip to step 7).

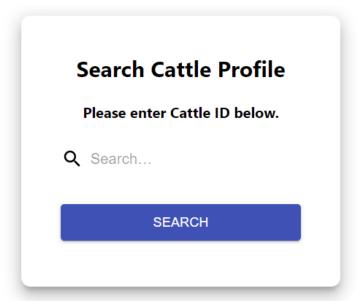


5. Cancel clears all entered fields. Add profile adds the information to the database and the system autocreates a profile containing the data/updates the profile information.

6. To view an added cattle profile, or to add/update cattle information, the Search Cattle Profile Button can be selected.



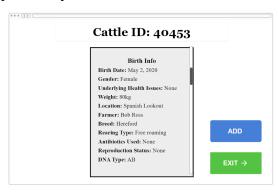
7. When the Search Cattle Profile button is clicked, it takes the user to the search page where they can search for a cattle by its cattleID. Select the Search button once the ID is entered. (All ADMIN users have this option).



8. When search is made, the database retrieves and connects the profile to its cattleID. And displayed the requested cattle.



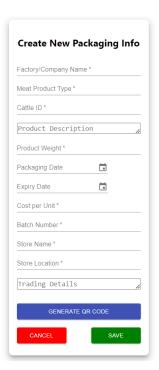
9. Users can click the displayed cattle profile. And will be taken to a form containing previously added information from the former stage.



10. Exit sends the user back to the previously opened page. Add carries the user to a form customized to the data needed from their stage. (Cattle Birth Info→Slaughter Info→Packaging Info)



OR

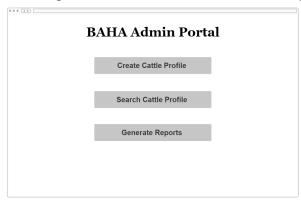


11. Step 5 is repeated when Cancel or Save is selected.

12. For <u>Packaging Managers</u>, if Generate QR Code is selected, they will be redirected to a page containing the uniquely generated QR (from the system). The data for the QR code will be pulled and connected to the QR code.

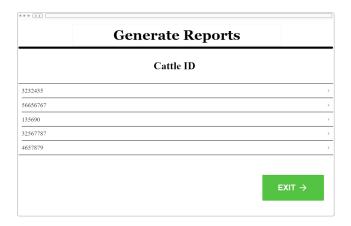


- 13. Exit takes the Packaging manager to a previously opened page.
- 14. <u>Only BAHA ADMINS</u> have the option to generate reports. Their Portal will have the option for them to select a Generate Report Button.



15. They can generate reports based on specific data types, through filtering. (Eg: through cattleID)





#### Other users (Customers) of the PUBLIC System

1. Scan the QR code present on the packaging of selected meat products in stores (Running W).



2. After scanning, customers will be redirected to the page containing the meat produce information for that specific product.

