



# ERP-COIN: Team Turing

USER MANUAL

## Table of Contents

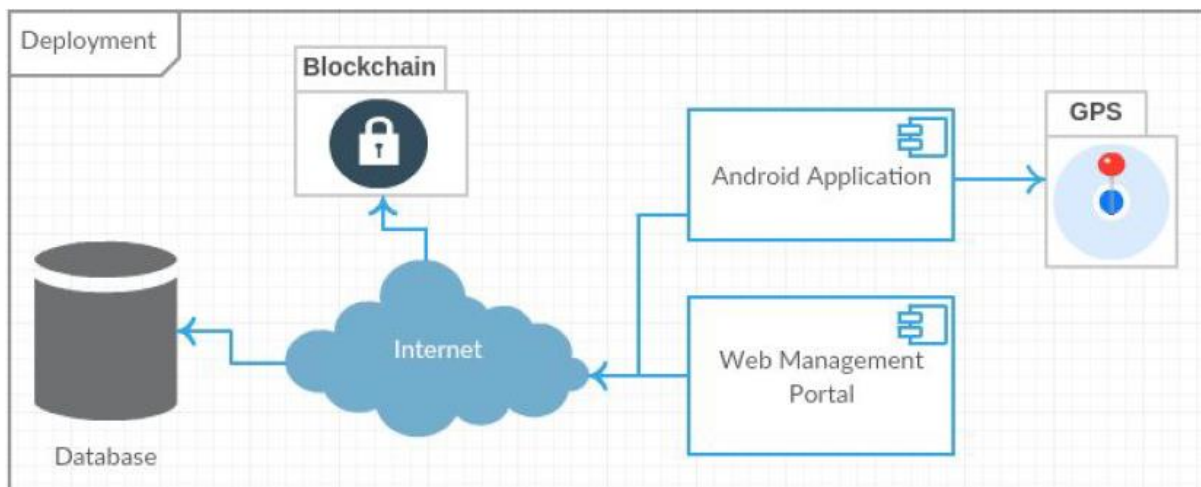
Project Description.....	2
Use Cases .....	3
Web Portal Management.....	3
Log In.....	3
View Portal Page .....	3
Create a Conservation Area .....	4
Mobile Application.....	5
User Login .....	5
Register User .....	6
User View Account.....	7
Send ERP Coins.....	8
Receive ERP Coins. View Wallet Address.....	9
View List of Conservation Areas.....	10
To Patrol.....	11
Send Alert.....	12
Conservation Administrator.....	14
Log in.....	14
View New Alerts.....	14
View list of current Rewards .....	15
Add Reward.....	16
Delete Reward.....	16
Edit Reward.....	17
Log out .....	17

## Project Description

One of the current initiatives is surveillance at Rietvlei Nature Reserve in Pretoria. Any volunteer can go to the area, sign in, get vehicle surveillance identification and patrol the area. This is to create a presence in the area and report any suspect behaviour concerning the safety of the Rhinos in the Rietvlei Nature Reserve.

This project should provide volunteers with a mobile app that will record the area they have monitored, suggest routes of areas that haven't been monitored recently, allow them to log notes and pictures of any suspicious behaviour and send alerts. But we want a way to 'reward' the volunteers by means of a blockchain token.

Here is a deployment picture



It illustrates that the project will contain an Android app and a management web portal. The application will consist of route management, patrol tracking and Token management. Data, like tracking logs and user details, will be stored in a database. Certain external services will be used such as Google maps API.

## Use Cases

### Web Portal Management

#### Log In


To log in to your account go to the website.

You will see the Web Management Portal Login (Fig 1.1)

Login

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Welcome to ERP Coin Portal!



Username

---

Password

---

LOGIN

Figure 1.1 Web Portal login Screen

Enter your Username and Password.

Tap Login

If your credentials are incorrect you will receive an error message.

#### View Portal Page

To view Conservation Areas and other options, after you have logged in (Fig 1.1) you will see the portal page (Fig 1.2)

Rietvlei Nature Reserve  
Province: Gauteng, City: Province

Figure 1.2 (Portal Page)

Here conservation areas are listed (Fig 1.2).

Other options such as Add Conservation Area, View Administrators and View Store are available.

### Create a Conservation Area

To Create a conservation area, from the portal page (Fig 1.2) go to Add Conservation Area.

Search for your conservation area in the search bar and tap Get Border(Fig 1.3).

The borders for the conservation area will be automatically created.

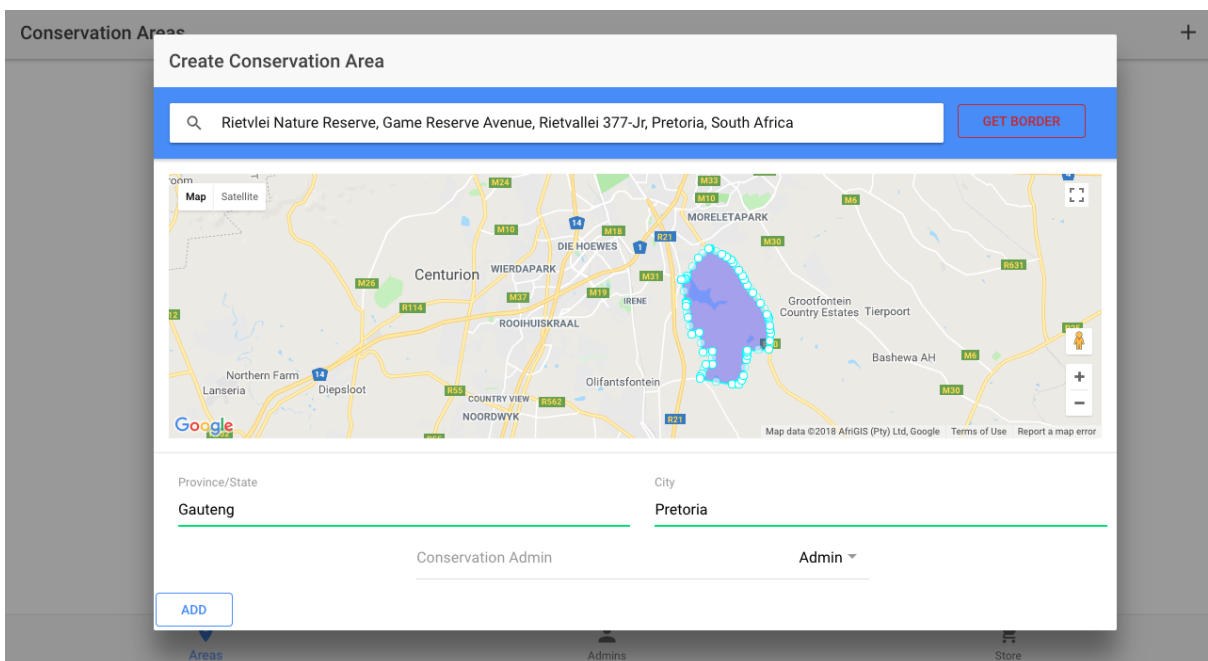


Figure 1.3 Create Conservation Area

If the borders can not be automatically found, you will have to add the borders on the conservation area manually, by tapping on the polygraph button on the map (Fig 1.4).

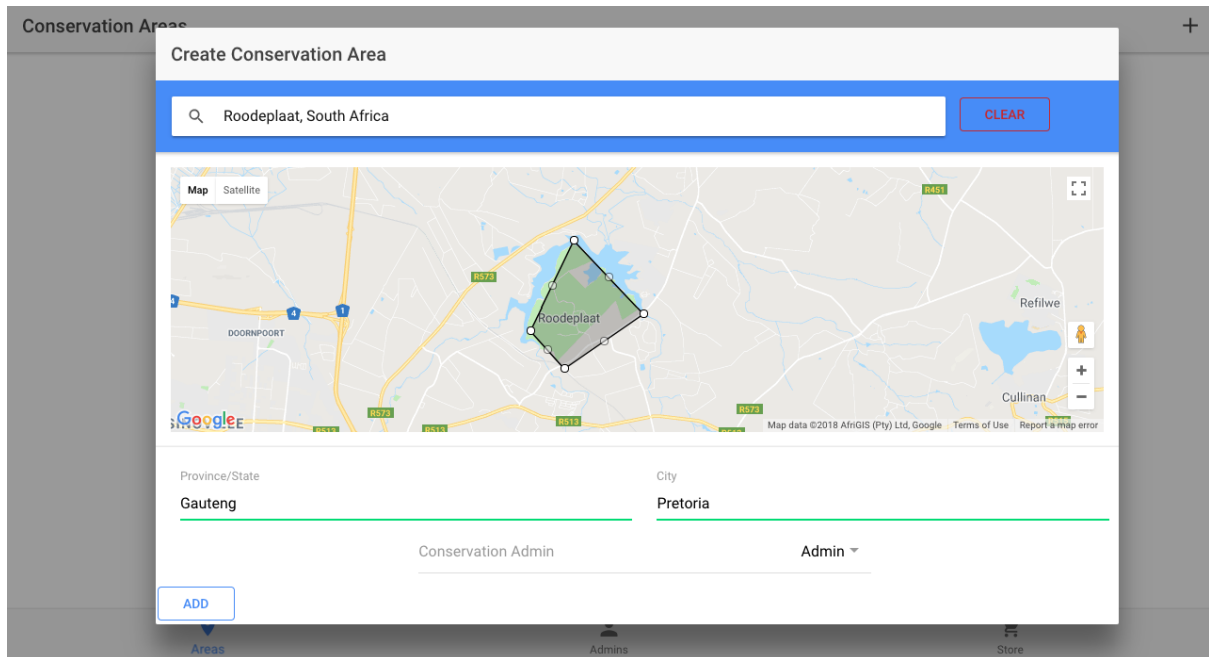


Figure 1.4 Create Conservation Area. Add Borders manually.

Enter the Province/State and City.

Press Add.

## Mobile Application

### User Login

To login to your account, first launch the application

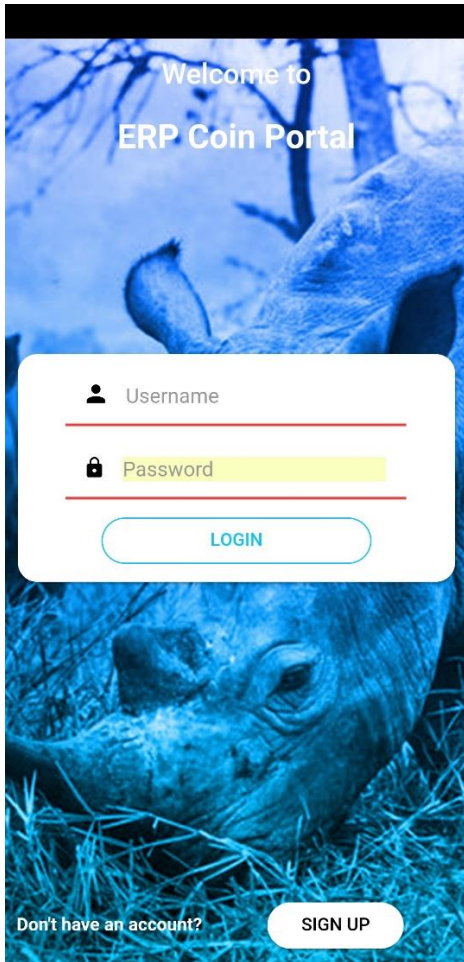


Figure 2.1 Login Screen

You will see the Login Screen (Fig 2.1)

Enter your Username and password and tap Log In. If your details are correct then you are logged in!

### Register User

To create an user account, at the Launch Screen (Fig 2.1) tap Register. You will see the Registration Screen(Fig 2.2)

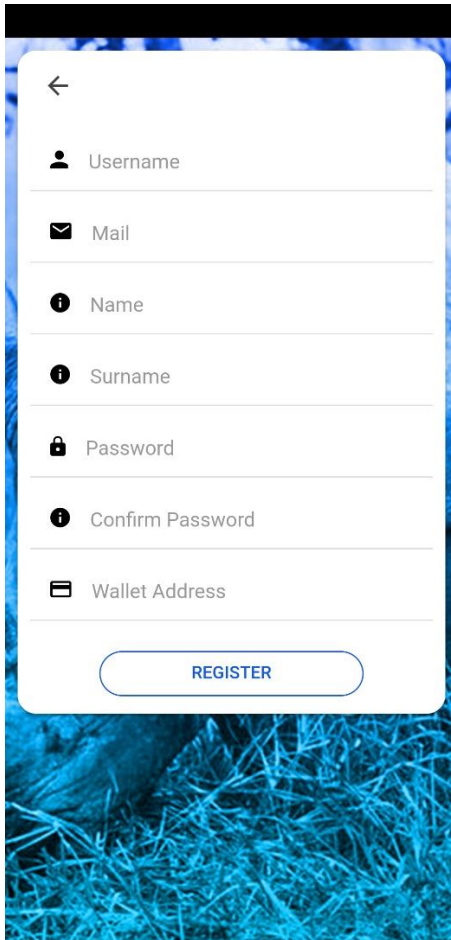


Figure 2.2 Registration Screen

Fill in all the fields and tap Register. If what've entered in Password and Confirm Password do not match, you will receive an error message and will not be registered.

### User View Account

To view your account, login to your account (Fig2.1).

You will then be transferred to the My Account Screen (Fig2.4).





Figure 2.4 My Account Screen

Here you can view your ERP-Coin Balance. Here you can manage your wallet, like send and receive ERP coins.

#### Send ERP Coins

To send ERP coins. At the My Account Screen(Fig 2.4), tap Send Erp.

You will see this screen(Fig 2.5).

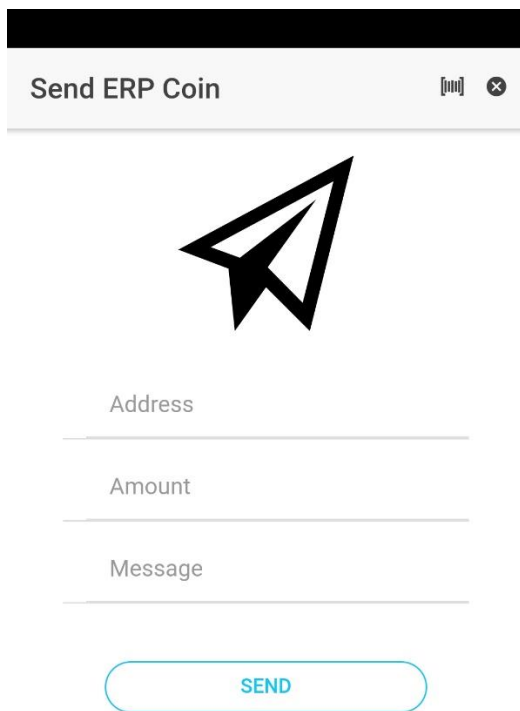


Figure 2.5 Send ERP-Coin

Enter the wallet address of the recipient, amount of ERP-Coin to transfer and a message.  
Tap Send.

#### Receive ERP Coins. View Wallet Address.

To receive ERP coins, the sender needs a wallet address as a destination for the Coins.

You can view your wallet address. Go to the My Account screen (Fig 2.4).

Tap Receive ERP.



Figure 2.6 Receive ERP-Coin

Here is your wallet address (Fig 2.6).

### [View List of Conservation Areas](#)

To view the list of registered conservation areas, go to My Account screen (Fig 2.4).

Tap View List of Conservation Areas.

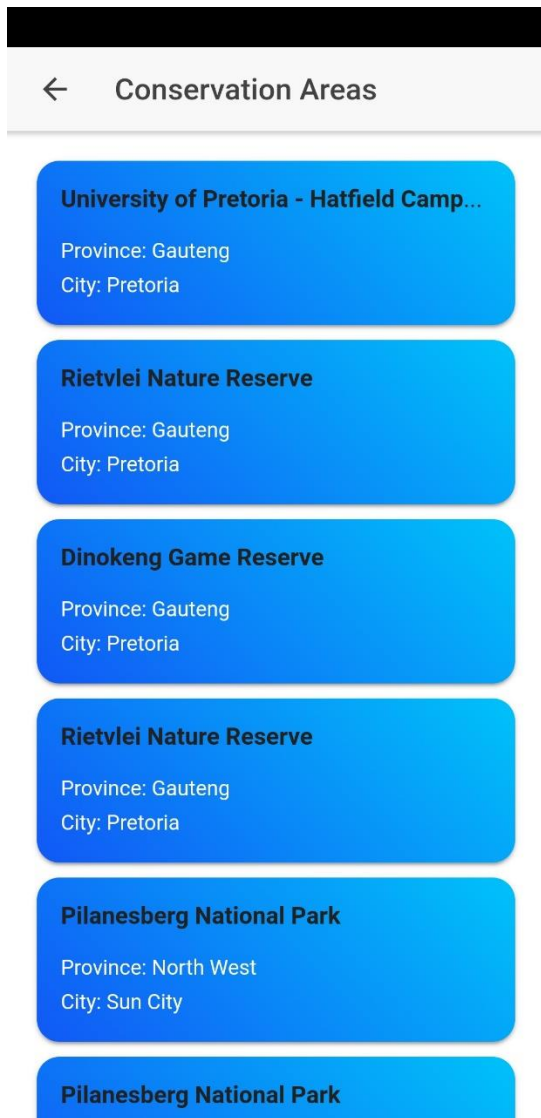


Figure 2.7 List of Conservation Areas

Here is the list of Conservation Areas (Fig 2.7)

#### To Patrol

To start patrolling, from the My Account screen (Fig 2.4) go to the list of Conservation Areas (Fig 2.7).

Tap on a conservation area you want to patrol.

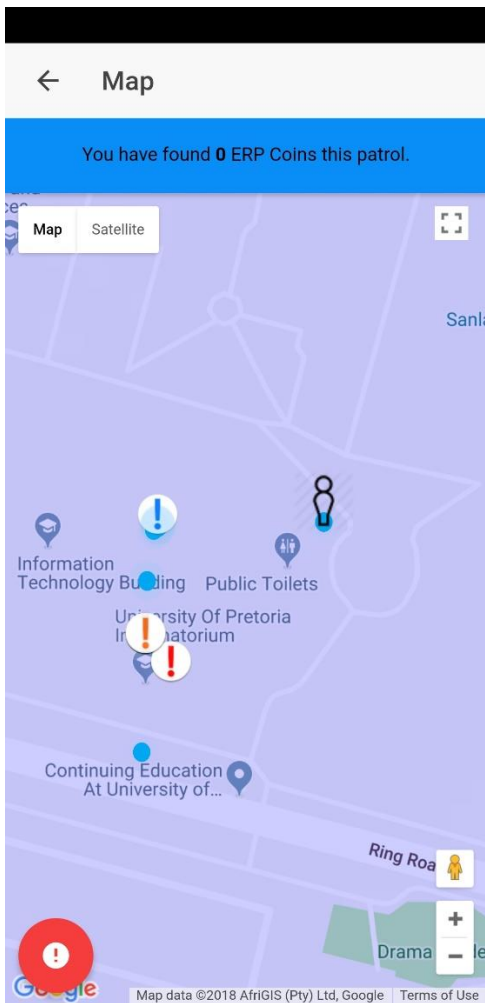


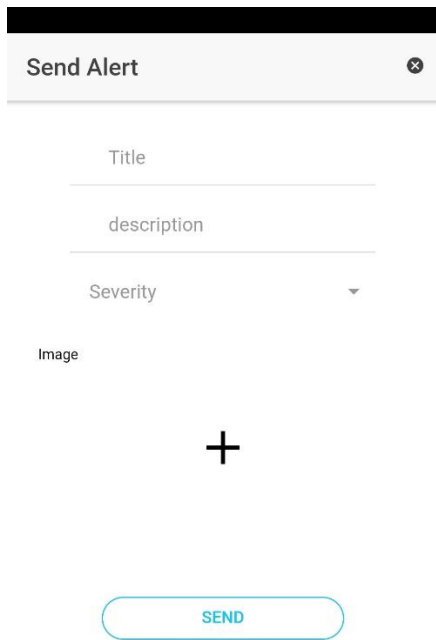
Figure 2.8 Patrolling Screen

Now you are patrolling the area (Fig 2.8).

The amount of ERP-coins you found on this patrol is also displayed.

#### Send Alert

On the patrolling screen Fig(2.8). Tap the red Alert button.



The image shows a mobile application screen titled "Send Alert". At the top, there is a black header bar. Below it, a white header bar contains the text "Send Alert" and a small "X" icon in a circle. The main content area is white and contains a form with the following elements: a "Title" label above a text input field; a "description" label above another text input field; a "Severity" label above a dropdown menu with a downward arrow; and an "Image" label above a large black plus sign (+). At the bottom of the form is a rounded rectangular button with a blue border and the word "SEND" in blue capital letters.

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Figure 2.9 Send Alert Screen

You will see the Send Alert Screen

Fill in the form. Press SEND.

To cancel, press the exit button.


You will be returned to the patrolling screen (Fig 2.8).

## Conservation Administrator


Log in

Conservation Administrator

---

 Username

---

 Password

---

[LOGIN](#)



Figure 3.1 Login Screen

To Log into your account, open the application and you will see the Login Screen (Fig 3.1)

## View New Alerts

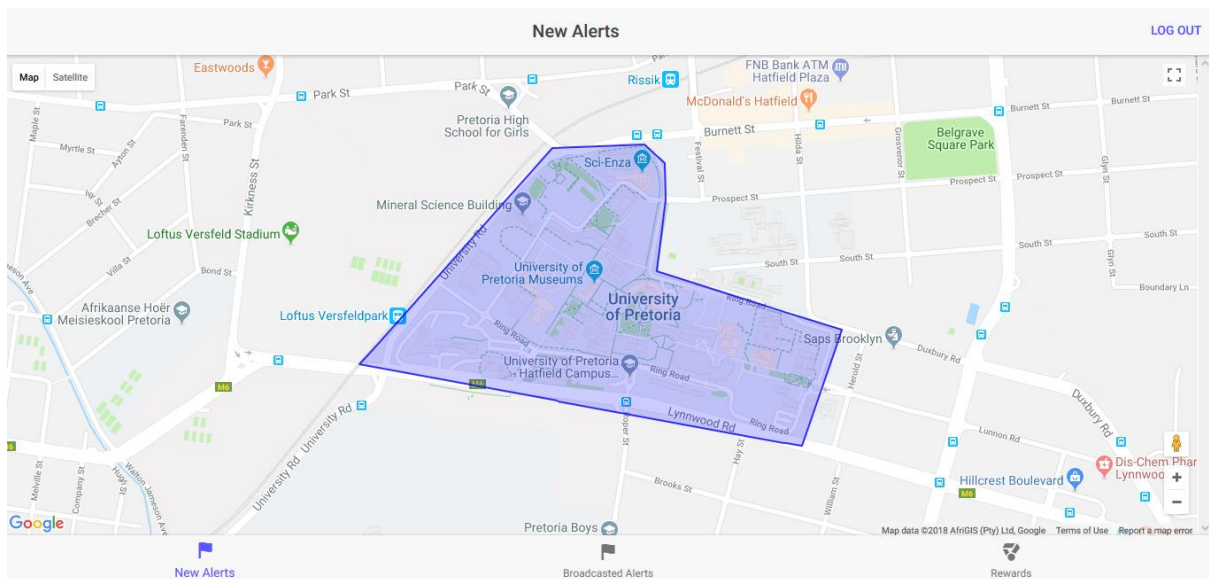


Figure 3.2 New Alerts Screen

After you have logged in, you will be immediately directed to the New Alerts screen (Fig 3.2).

On other pages, Press the New Alerts tab in the tabs menu at the bottom left of the screen (Fig 3.2).

View list of current Rewards.

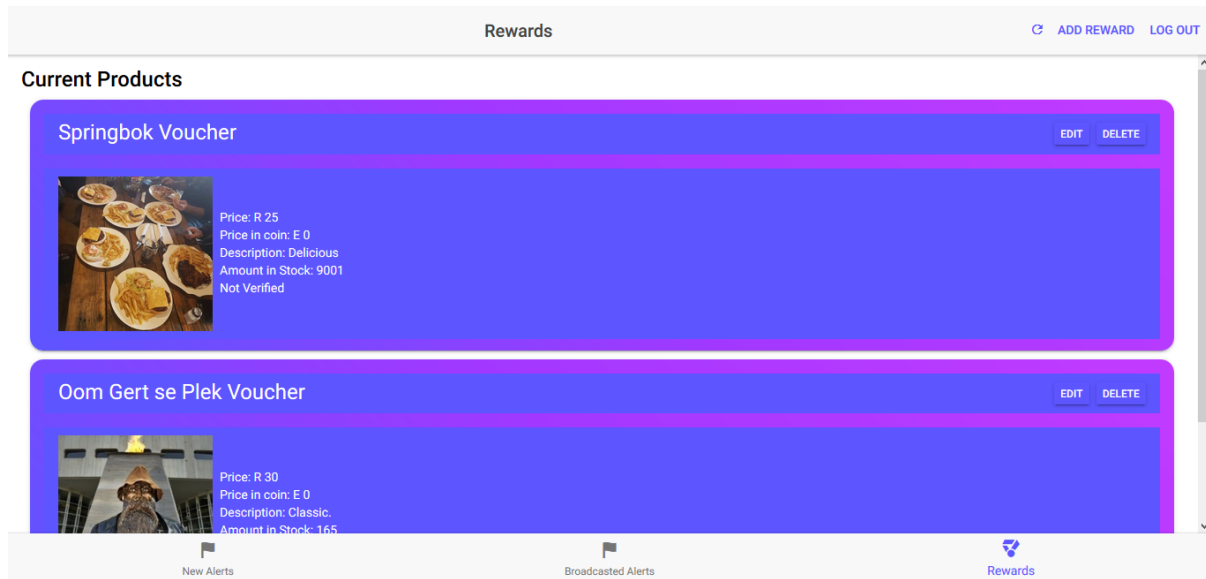


Figure 3.3 Rewards Screen

Click on the Rewards Tab at the bottom right of the screen when on the New Alerts tab (Fig 3.2) and the Broadcast Alerts tab.



## Add Reward

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9001

ic.  
165

Figure 3.4 Add Reward Screen

When on the Rewards Screen (Fig 3.3), click on Add Reward in the top right.

Fill in the details (Fig 3.4) and click submit.

Your reward will then be listed on the Rewards Screen (Fig 3.3) after it is successfully submitted.

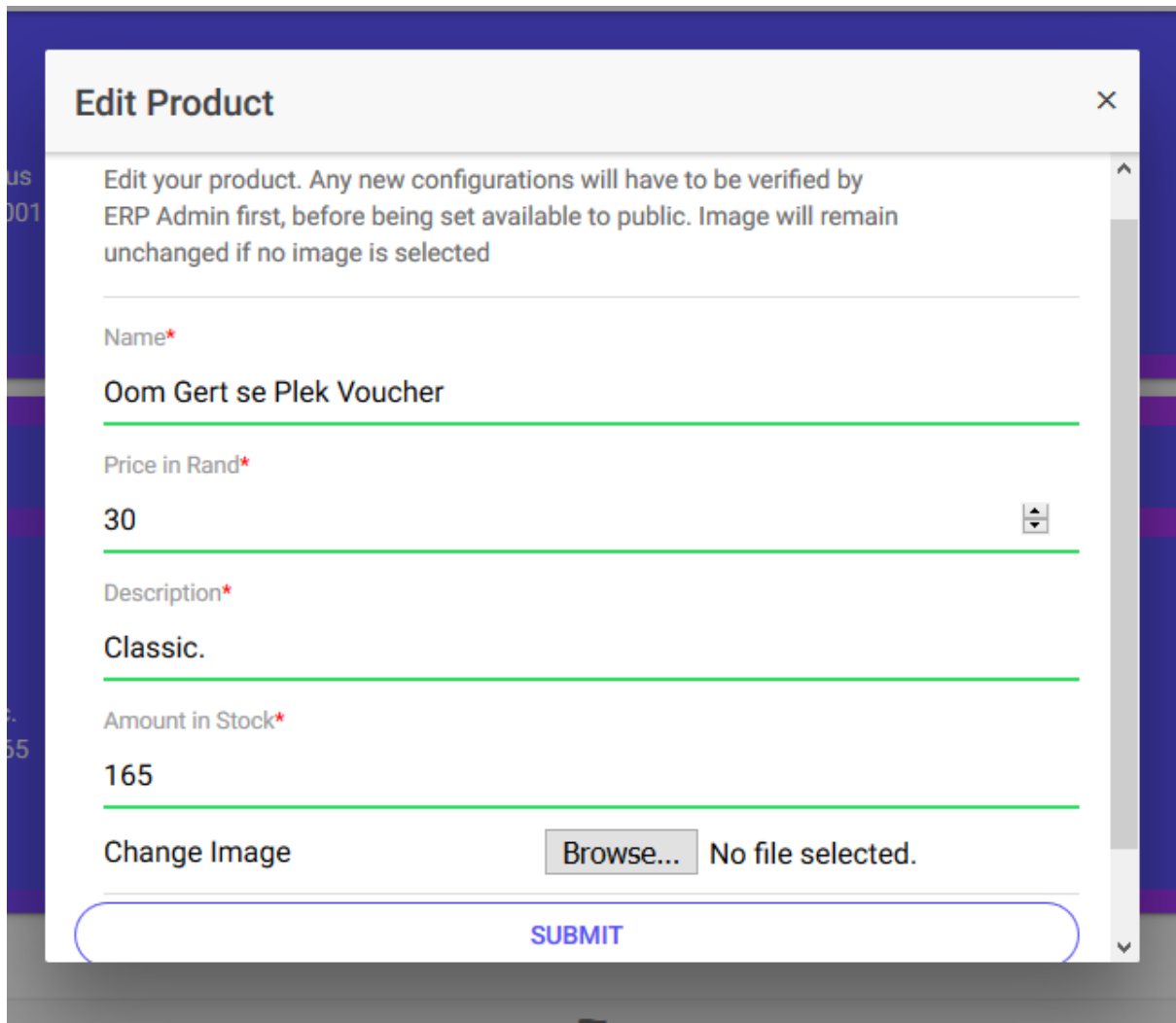
If your reward has not shown in the list then you can click the refresh button (Fig 3.3).

## Delete Reward

To delete your reward, click on the Delete button next to your chosen reward (Fig 3.3). A Confirmation window will appear.

Your reward will be immediately removed when your request is successfully submitted.

## Edit Reward



**Edit Product** ×

Edit your product. Any new configurations will have to be verified by ERP Admin first, before being set available to public. Image will remain unchanged if no image is selected

Name\*

Oom Gert se Plek Voucher

Price in Rand\*

30

Description\*

Classic.

Amount in Stock\*

165

Change Image  No file selected.

**SUBMIT**

Figure 3.5 Edit Reward

To change certain details of a chosen reward, click on the Edit button next to the reward (Fig 3.3).

Enter your desired details and click submit (Fig 3.5). If no image is selected, then the image won't be changed.

After successful submission, your reward will appear updated.

Click on the refresh button if the changes have not yet been reflected.

Log out

Click at any time on the log out button at the top right of any screen. You will be redirected to the Login Screen (Fig 3.1).