



# ERP-COIN: Team Turing

USER MANUAL

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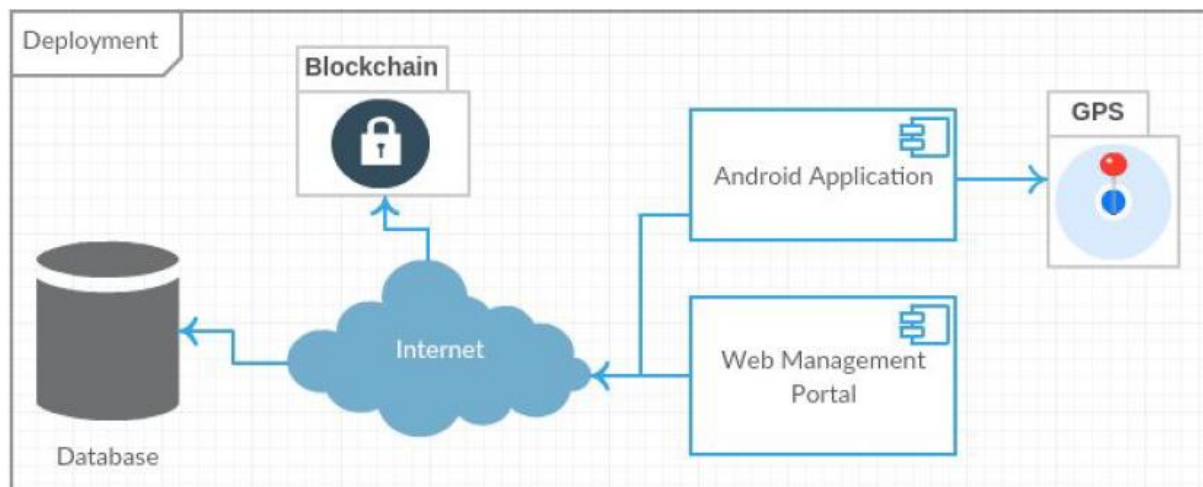
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## Project Description

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)

Welcome to ERP Coin Portal!



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 User Conservation Areas and Leaderboard

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

#### Portal Page

Conservation Areas	User	Coins Earned
Rietvlei Nature Reserve	Richard	100
Dinokeng Nature Reserve	Kyle	92
Name of conservation area	Sewis	85
	Tristan	45
ADD CONSERVATION AREA		

Figure 1.2 (Portal Page)

Here conservation areas are listed as well as the user leaderboard in descending order of coins earned (Fig 1.2).

### 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.

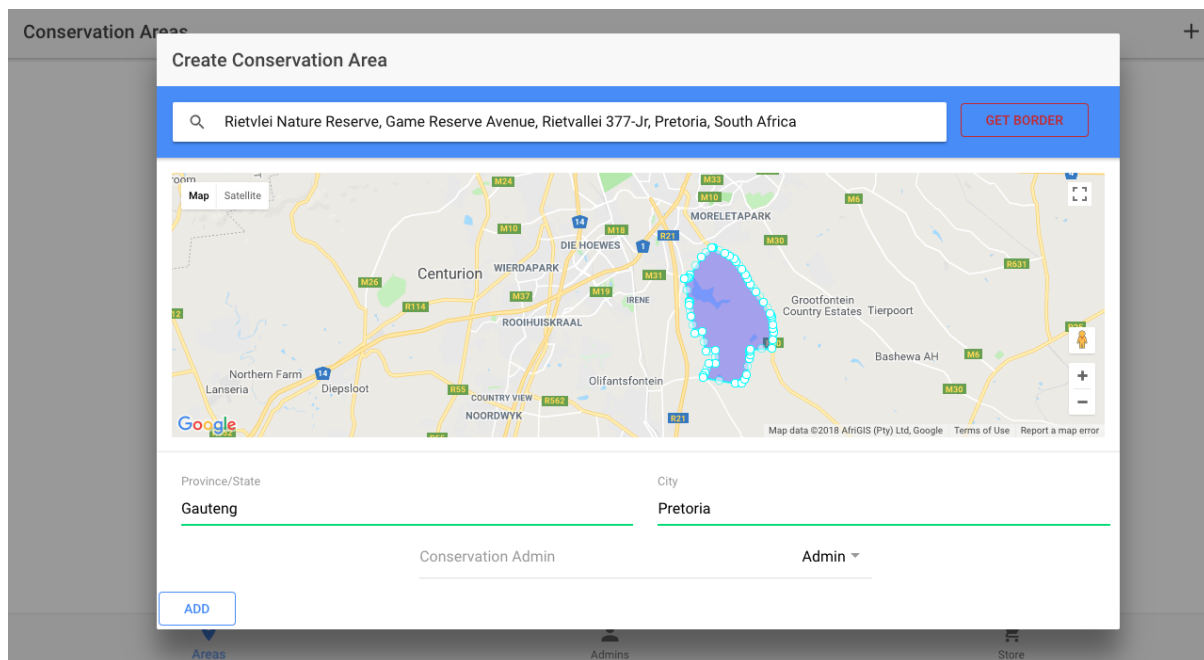


Figure 2.3 Create Conservation Area

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).

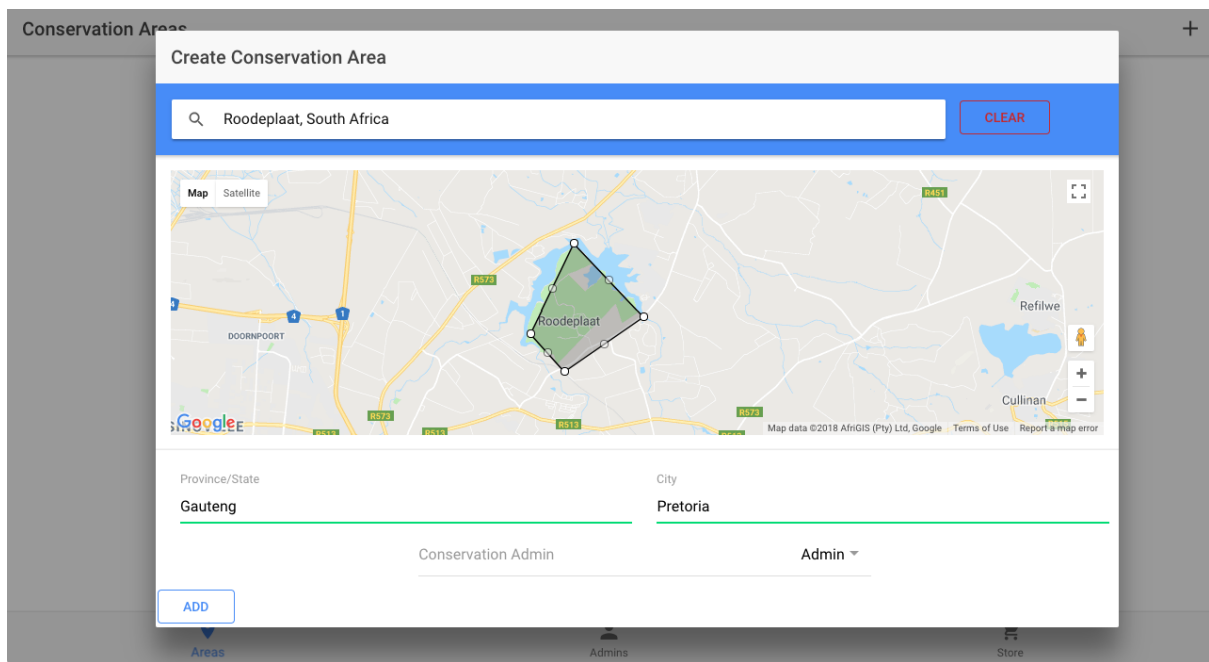


Figure 1.4 Create Conservation Area. Add Borders manually.

Enter the Province/State and City.

Press Add.

## Mobile Application

### User Login

To login to your account, first launch the application



Figure 2.1 Launch Screen

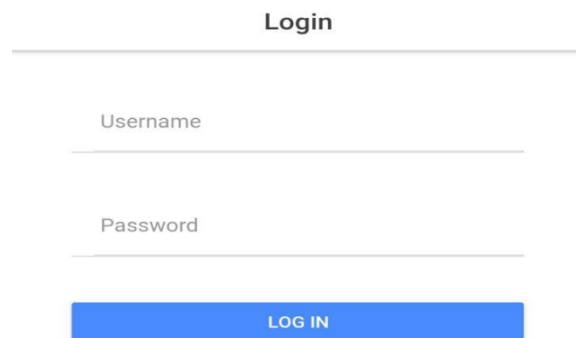


Figure 2.2 Login Screen

You will see the Launch Screen (Fig 2.1)

Tap Log In.

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 2.3)

The registration form is titled "Registration" and contains the following fields:

- Username
- Name
- Surname
- Password
- Confirm password
- Cellphone Number
- Vehicle Model
- Vehicle Registration

A blue button labeled "REGISTER" is located at the bottom of the form.

Figure(2.3) 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 (Fig2.2).

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



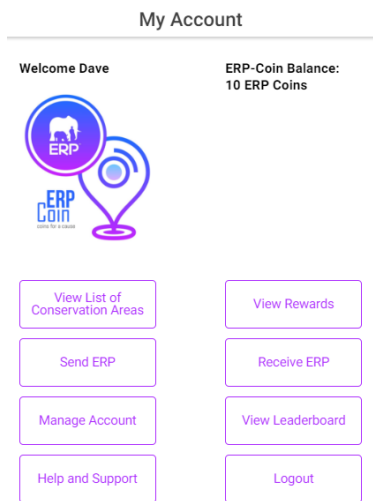


Figure 2.4 My Account Screen

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).

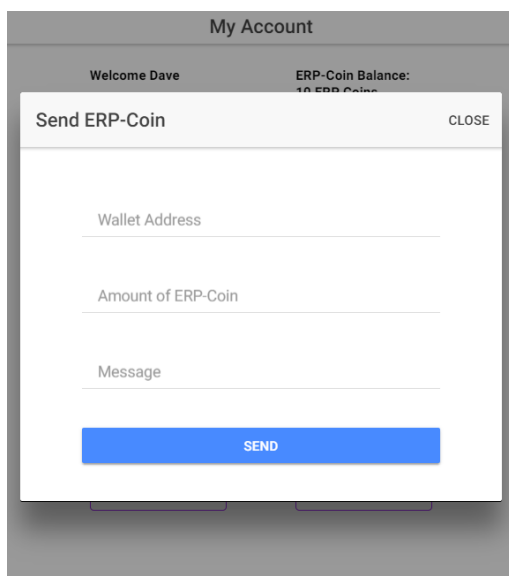


Figure 2.5 Send ERP-Coin

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.

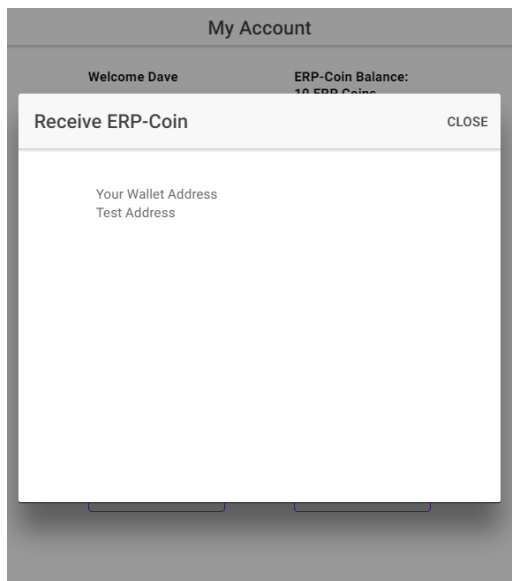


Figure 2.6 Receive ERP-Coin

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.

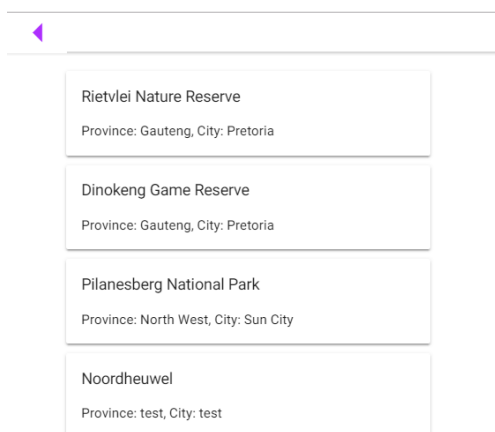


Figure 2.7 List of Conservation Areas

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.

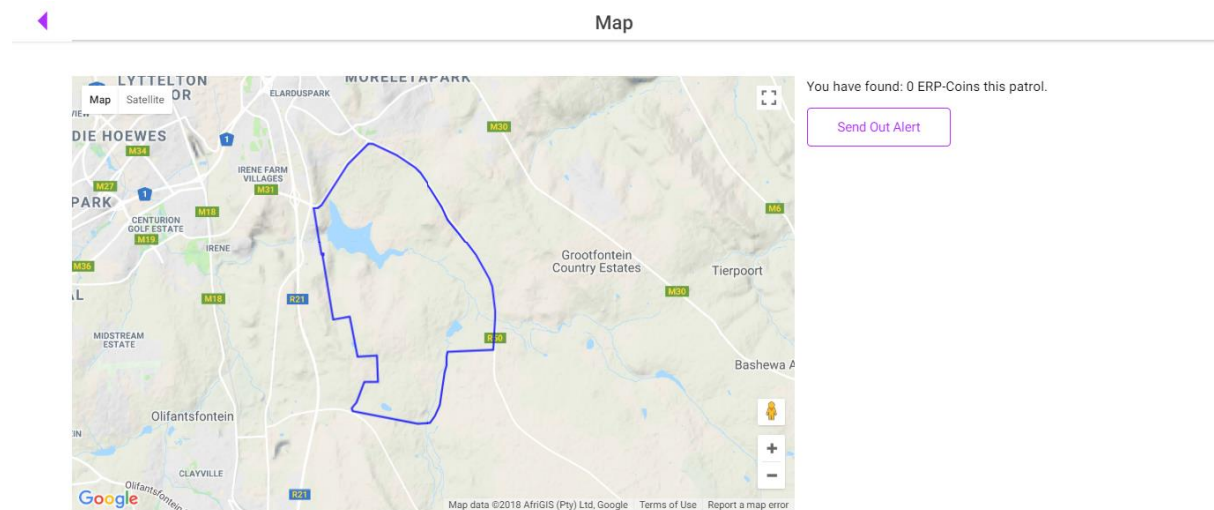


Figure 2.8 Patrolling Screen

Now you are patrolling the area (Fig 2.8).

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