## ERP Ranger Application



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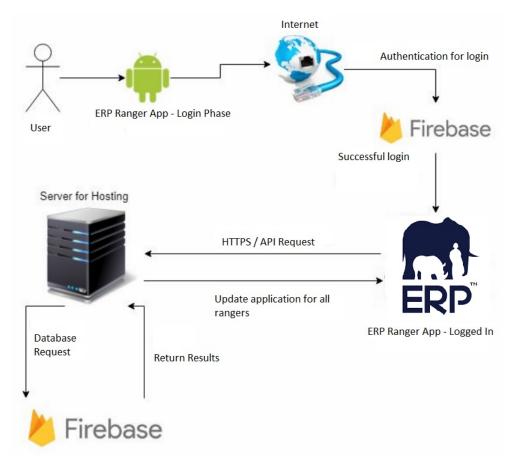
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#### 1 Description

The purpose of the Ranger application is to improve the safety and security of nature reserves and the animals inside. This is done by incentivising volunteer rangers with points which they can later exchange for rewards in the form of merchandise or travel vouchers. Points are awarded to rangers for completing certain actions and passing certain checkpoints whilst on patrol. The application will also provide admins with notifications and the ability to monitor the reserve and the rangers whilst they are on patrol.

## 2 System Configuration



System Configuration Diagram.

The picture above gives a brief overview of how the system works in terms of authentication and handling requests for various actions.

#### 3 Installation

Installing the mobile application:

- Clone the git repo.
- Open the source code in Android studio.
- Activate and turn on developer mode on your device.
- Choose your device as the run target in Android studio.
- Run the application.

NOTE: Look at software engineering process and look closely at the version. Incoproprate volunteer registration into the application. Share rewards to encourage joining? Extra user type for park residents/locals. Check device to screen cable. Check new world for cable. ALWAYS USE OVERLEAF.

The mobile application will be made available on relevant app stores where rangers can download and install it. This will only be available after the alpha testing phase.

- Accessing the web application:
- Open a browser.
- Navigate to the following url

### 4 Getting Started

Getting started with the mobile application:

- Upon opening the application the user will be greeted with a login screen unless they have logged in once before.
- After login the user will be presented with the home screen and from here they can start performing actions like starting a shift, managing their next shift and reporting a incident.
- ¡Add screens and their workings;
- Finally the ranger can close the application or they can logout and close.

Getting started with the web application:

- Open browser and navigate to the relevant url. Upon opening the admin or rangers will be greeted with a login screen.
- After logging in admins and rangers will each be directed to their dedicated areas.
- Admin will be directed to their dashboard which shows them an overview of the park, from here they can add and monitor rangers as well as manage the reserve's settings.
- Rangers will be directed to their profile where they can manager their shifts as well as view their current amount of points and possible rewards.
- Finally they can close the web application or logout and close.

### 5 Using the system:

After successful login, a ranger will be prompted with the main dashboard where rangers will have access to a variety of features in the centre of the page. Some of these features include: Submitting reports, monitoring shifts, viewing assets and logging feedback. By clicking on one of these, it will take you to the respective screen. On the submitting reports screen, rangers will be able to submit any sightings that they might have encountered on their petrol. The monitoring shifts screen will allow rangers to keep track of time spent on their respective shifts. Viewing assets will list all assets available for checkout by rangers on their shifts. The logging feedback screen will enable rangers to log any feedback at the end of their shift and log any assets used during their patrol.