



**EGERTON**

**UNIVERSITY**

**Vaccination Statistics Platform (ImmunoTrak)**

**USER MANUAL**

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## 1.0 Introduction

ImmunoTrak is a web application that enables health workers to easily keep track of immunization data. This document is the user manual for ImmunoTrak that gives assistance to users on how to use ImmunoTrak. This document contains images that are intended to assist the user on how to use ImmunoTrak.

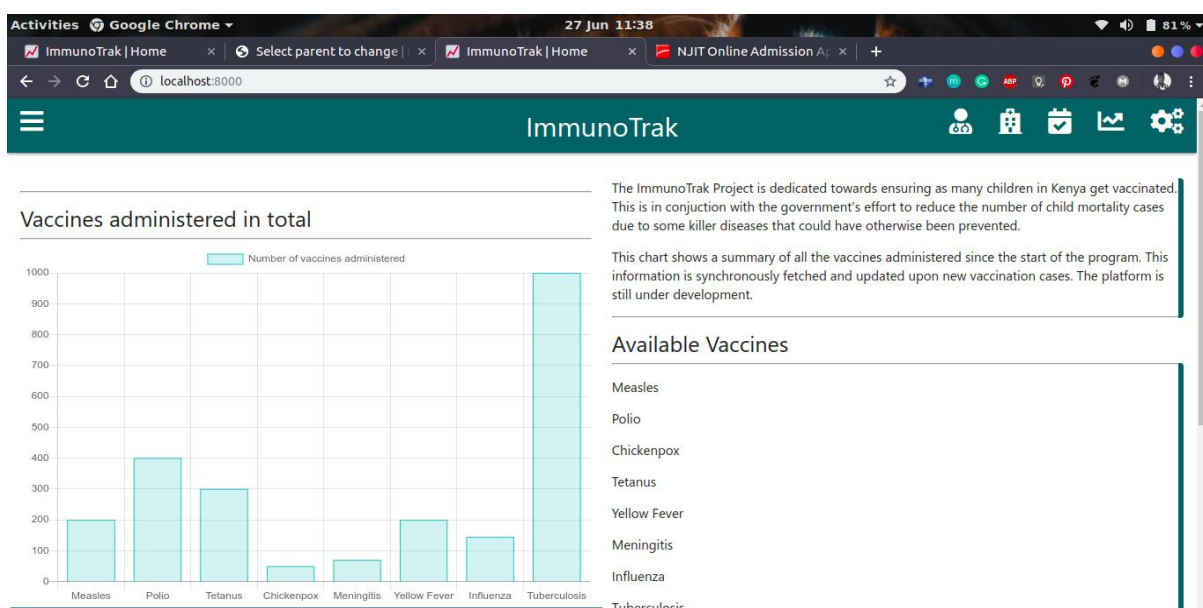
## 2.0 Overview

ImmunoTrak is a web application that runs on web devices with all modern browsers. ImmunoTrak requires internet access for use but for this demonstration, we will use the offline version. This is because the data herein is dynamic and runs on relational database (MySQL). For example, login, registration or posting information requires internet if deployed on a web server.

## 2.1 Accessing the System

After installation of the web application (ImmunoTrak) files one launches it locally by running the command `python manage.py runserver`. On launching the application, the landing page is a page containing the home page with a dynamic chart and a navigation bar with several options. The administrator or superuser is the one who adds users to the system and categorizes their level of access to the platform.

Figure 1: ImmunoTrak homepage



### 3.0 Getting Started

This section describes how the users of ImmunoTrak depending on their roles and access levels can begin their normal functioning.

#### 3.0.1 Registration

If one is not registered as a user of the ImmunoTrak application, then they have to get access rights from the administrator or a superuser who creates a profile for them to allow them to login.

The figure below shows a general create user page.

After that, the admin will be presented with another page to choose if the user is a superuser, a staff member (Doctor or Nurse) to give more information. Figure 3 and figure 4 show information about an employer and then additional information on employer registration.

Figure 2: Create user page

The screenshot displays the 'Add user' page of the ImmunoTrak application. The browser window shows the URL 'localhost:8000/admin/auth/user/add/'. The page has a teal header with the 'ImmunoTrak' logo and a welcome message for the 'ADMINISTRATOR'. Below the header, the breadcrumb trail is 'Home > Authentication and Authorization > Users > Add user'. The main content area is titled 'Add user' and includes instructions: 'First, enter a username and password. Then, you'll be able to edit more user options.' There are three input fields: 'Username' (with a note: 'Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.'), 'Password' (with notes: 'Your password can't be too similar to your other personal information.', 'Your password must contain at least 8 characters.', 'Your password can't be a commonly used password.', and 'Your password can't be entirely numeric.'), and 'Password confirmation' (with a note: 'Enter the same password as before, for verification.'). At the bottom right, there are three buttons: 'Save and add another', 'Save and continue editing', and 'SAVE'.

Figure 3: Change user page

Activities Google Chrome 27 Jun 11:50

localhost:8000/admin/auth/user/8/change/

ImmunoTrak WELCOME ADMINISTRATOR VIEW SITE / CHANGE PASSWORD / LOG OUT

Home Authentication and Authorization Users user255

✓ The user "user255" was added successfully. You may edit it again below.

Change user HISTORY

Username: user255  
Required: 150 characters or fewer. Letters, digits and @/+/+/-/\_ only.

Password: algorithm: pbkdf2\_sha256 iterations: 150000 salt: LOnFbO\*\*\*\*\* hash: j1EUAJ\*\*\*\*\*  
Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.

Personal info

First name: Erick

Last name:

Email address: Ogaro

Figure 4: Change User Page

Activities Google Chrome 27 Jun 11:51

localhost:8000/admin/auth/user/8/change/

Permissions

☒ Active  
Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

☒ Staff status  
Designates whether the user can log into this admin site.

☐ Superuser status  
Designates that this user has all permissions without explicitly assigning them.

Groups:

Available groups  
Filter  
Doctors

Chosen groups  
Nurses

Choose all Remove all

#### 4.0 Using the system

This section contains step by step guide on how the users of ImmunoTrak web application navigate through the application.

### 4.0.1 Administrator / Superuser

Figure 5 shows the admin dashboard. Once they login, administrators can select actions that they can do on the dashboard. They can modify users, and all the models available in the site. Administrators have full control over all the models in the database and have access to every single aspect of the platform. They can also view the site, change their password or log out as shown:

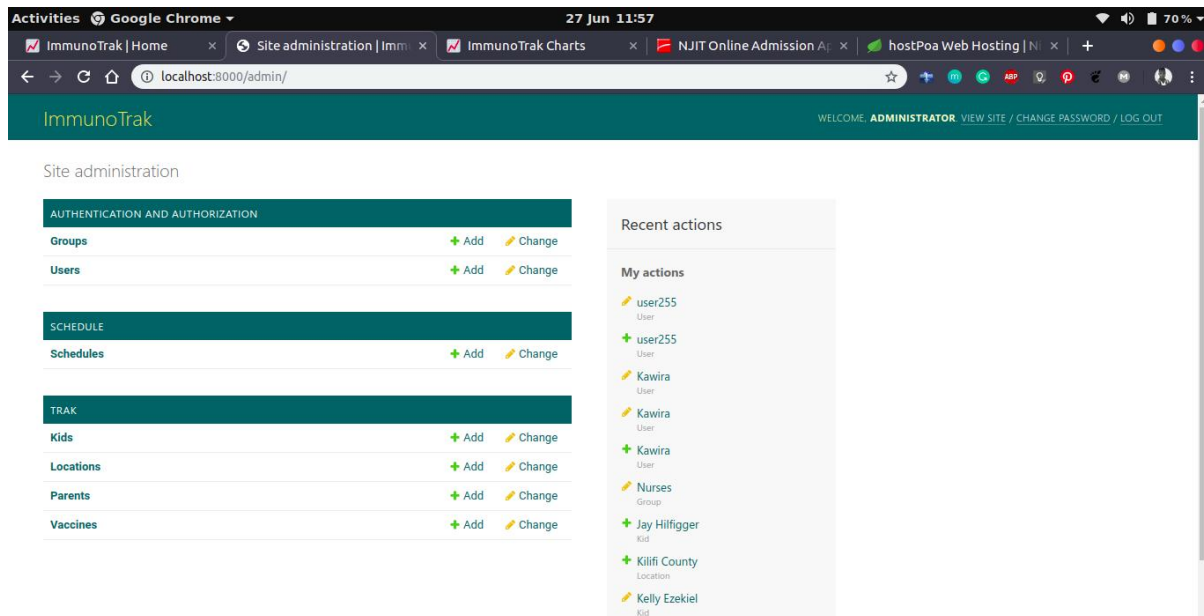
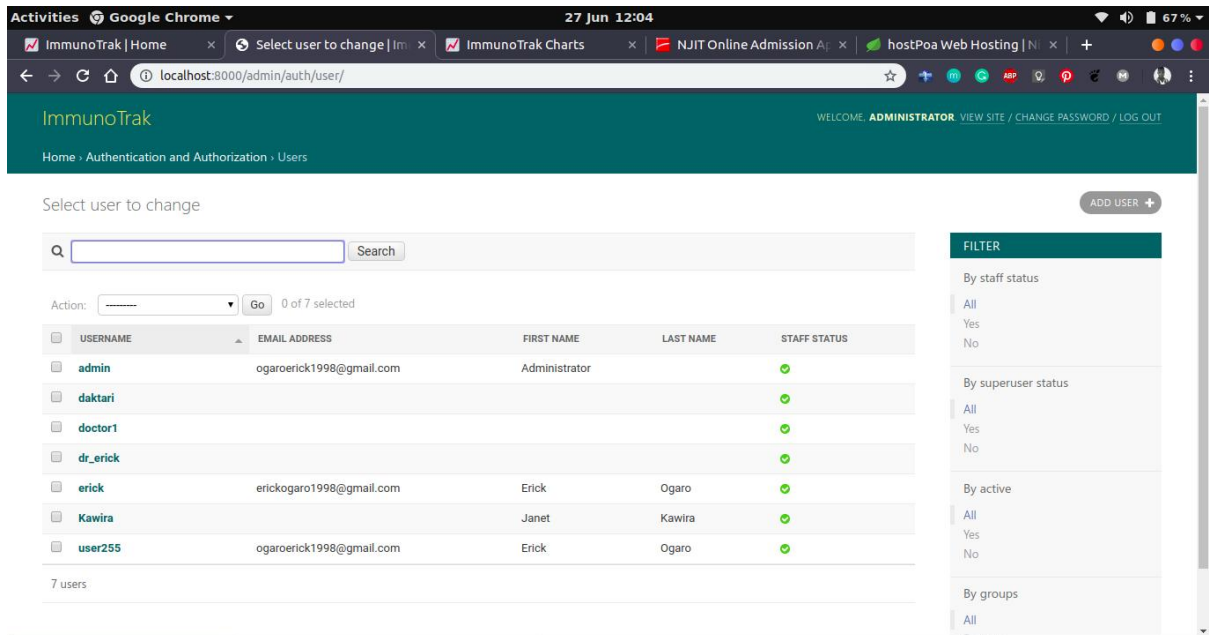
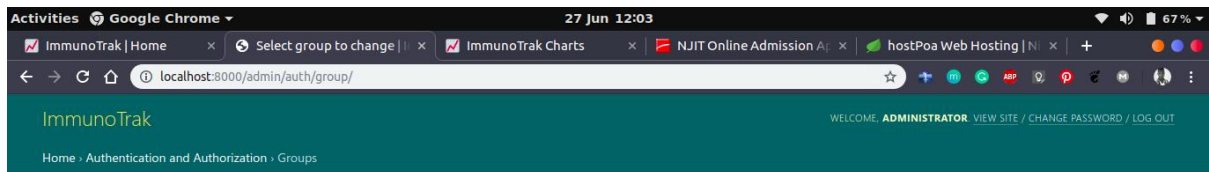


Figure 5: administrator dashboard page

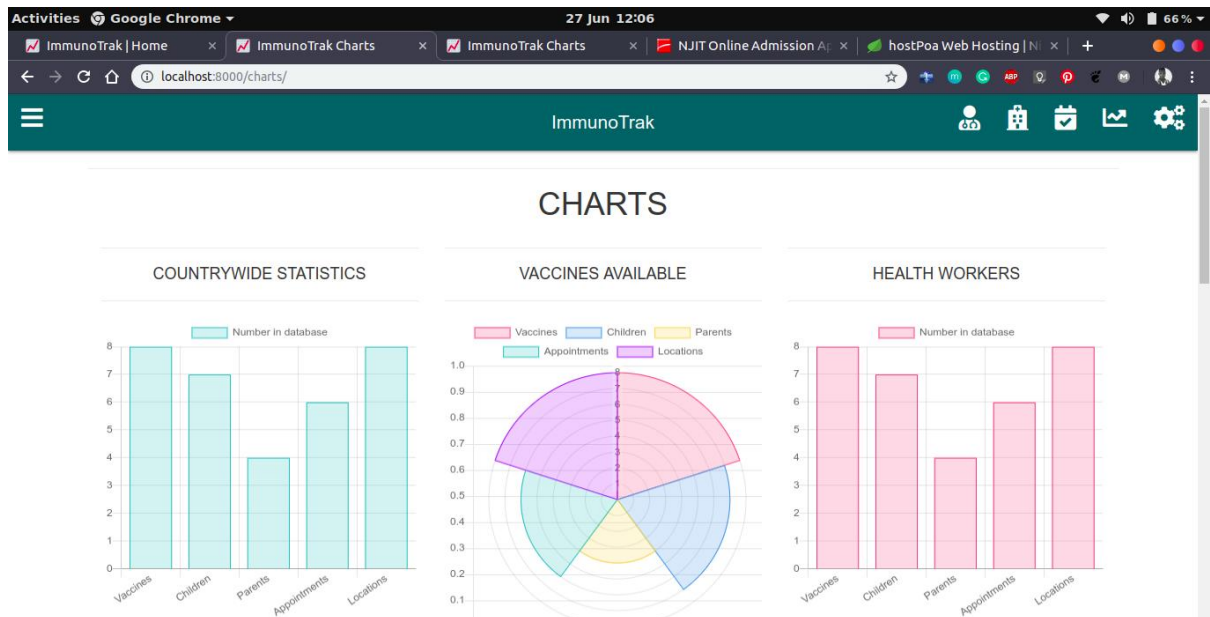
Figure 6: administrator users and groups





#### 4.0.2 Charts and statistics

Figure 7 shows all Charts and tables displayed in the system



Activities Google Chrome 27 Jun 12:08

localhost:8000/charts/tables/vaccines/

## TABLES

### All Vaccines

#####

Vaccines	Description	Available
Measles	Measles Vaccine	True
Polio	Polio vaccine	True
Chickenpox	Chickenpox vaccine	True
Tetanus	TDaP Vaccine for Tetanus and Diphtheria.	True
Yellow Fever	Yellow Fever vaccine	True
Meningitis	Meningitis Vaccine	True
Influenza	Influenza vaccine.	True
Tuberculosis	Vaccine for Tuberculosis	True

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Activities Google Chrome 27 Jun 12:08

localhost:8000/charts/tables/locations/

ImmunoTrak

## TABLES

All Locations

County	Vaccinations
Mombasa County	20
Nairobi County	120
Nakuru County	300
Kwale County	15
Kilifi County	6
Meru County	67
Tana River County	200
Garissa County	455

Activities Google Chrome 27 Jun 12:09

localhost:8000/charts/tables/children/

ImmunoTrak

## TABLES

All Children

#####

First Name	Last Name	Date Of Birth	Parent's Name
ERICK	OGARO	May 21, 2019	Linet Ogaro
Eubert	Ogaro	May 22, 2019	Linet Ogaro
Nancy	Ogaro	May 22, 2019	Linet Ogaro
Lydiaiah	Ogaro	May 22, 2019	Linet Ogaro
Kelly	Ezekiel	June 6, 2019	Lydiaiah Ogaro
James	Rodriguez	June 12, 2019	Linet Ogaro
Jay	Hilfigger	Jan. 8, 2019	Linet Ogaro

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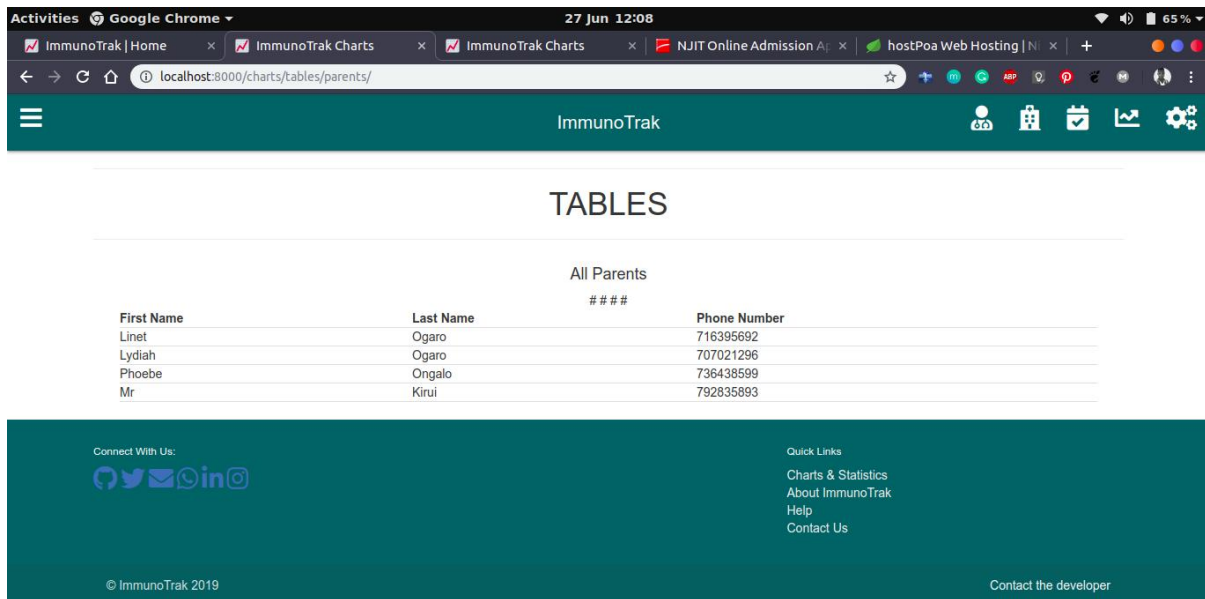


Figure 7: Charts and tables pages

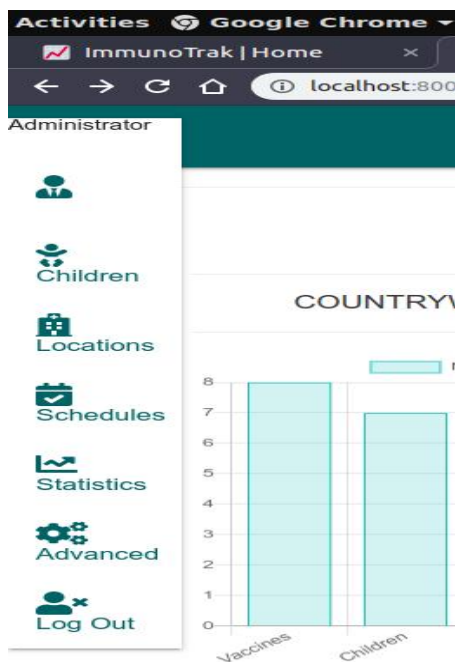


Figure 8: Pop - up options on navigation bar

#### 4.1 Authentication (Login, Log out, Change password etc)

When the user logs out they do not have access to the platform's core functionality. Figure 9 below shows the page after logging out. The purple arrow below shows that a job has been assigned.

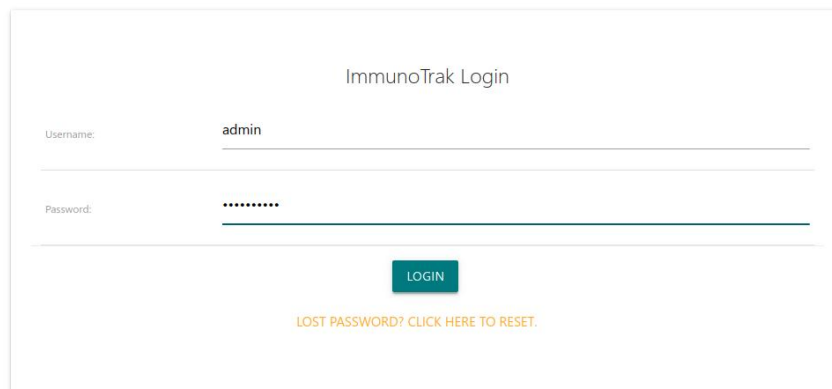
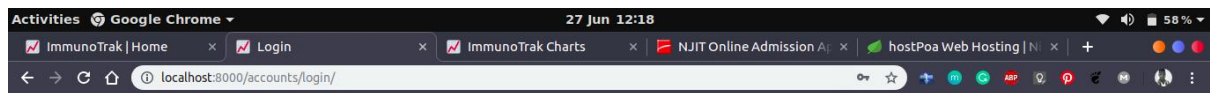
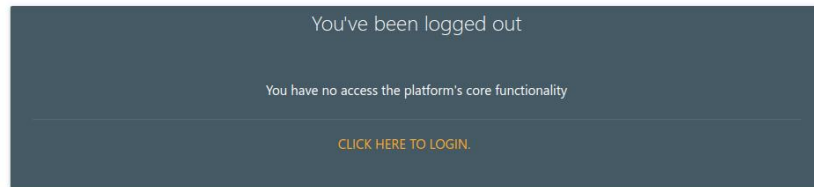
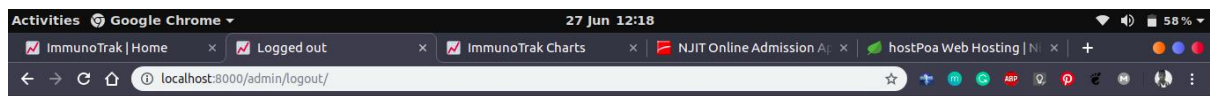


Figure 9: Logged out, login and change password pages.