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# **MosquitoDB**

***Release 25th August 2021***

**Janice Maige**

**Apr 08, 2022**



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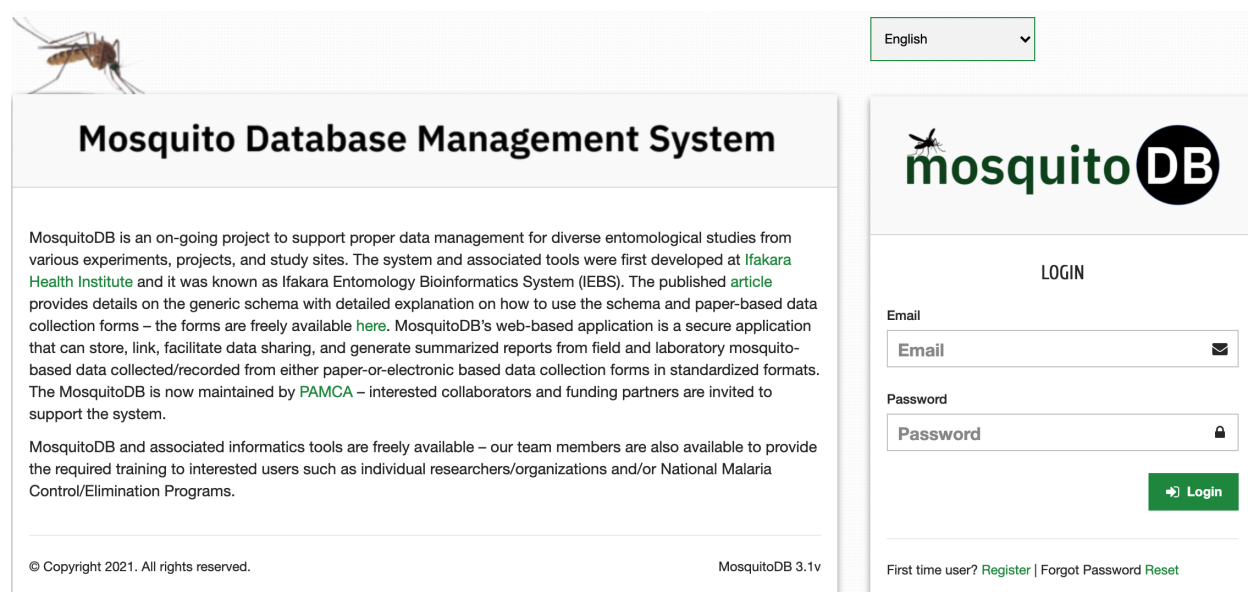


## OVERVIEW

### 1.1 Overview

MosquitoDB's web-based application is a secure application that can store, link, facilitate data sharing, and generate summarized reports from field and laboratory mosquito-based data collected/recorded from either paper-or-electronic based data collection forms in standardized formats.

It ensures Quality data collection, proper linkage between projects and users, secure storage, standardised datasets, easy sharing of data within the team and interactive visualisation of stored data.



### 1.2 Key Features

MosquitoDB's key features include ;

- It facilitates data collection for all person's in the research team
- It facilitates the secure storage of field data
- It facilitates data sharing for relevant persons in the team and in other organizations
- It facilitates interactive visualisation of stored data.





## GETTING STARTED

### 2.1 Register your account

Click on “Register” button, found on the login page as per image below. This will take you to the registration page where you can enter your details.

Upon submitting the system will send an “Activation Email” to your registered email for security purpose, if you don’t find it in your inbox, kindly check your spam folder. Click Activate account button on the received mail and your account will be activated.

If you’re a French speaking user, click the language button to switch to your preferred language.

English ✓

Switch Language

**mosquitoDB**

LOGIN

Email


Email

Password

Password

➔ Login

First time user? **Register** | Forgot Password | Reset



REGISTER

First Name

Second Name

Last Name

Mobile Number


Email

Username

Password

Confirm Password

☐ I'm not a robot

  
reCAPTCHA  
Privacy - Terms

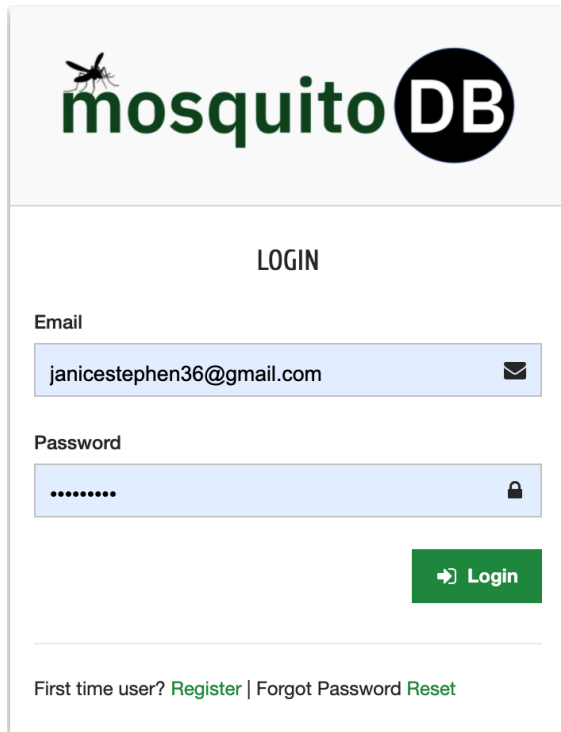
Submit

[Back to Login](#)

## 2.2 Login to your account

- Enter your registered email address e.g. [newuser@ihi.or.tz](mailto:newuser@ihi.or.tz)
- Enter your registered password \*\*\*\*\*
- Then Click the “Login Button” to login to Mosquito database

If you can't remember your registered password click Reset, an email will be sent to your email for password reset instructions.

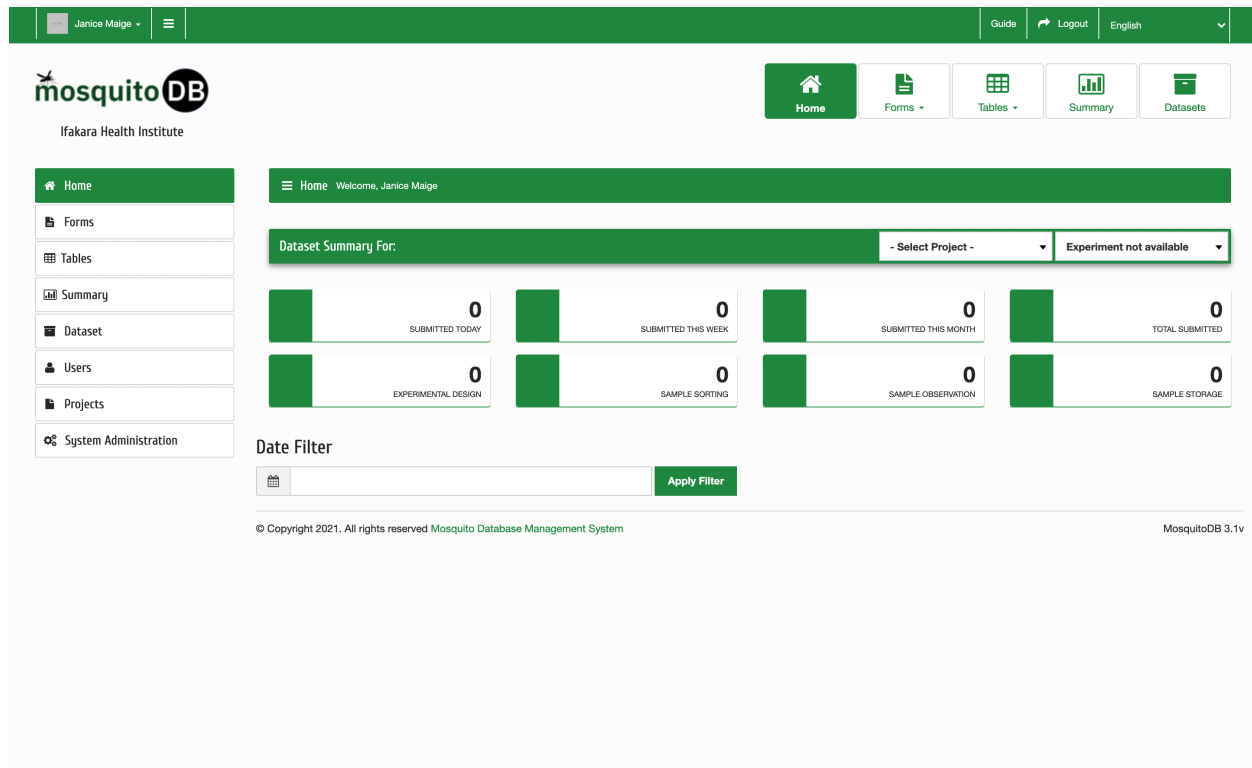


The image shows the MosquitoDB login interface. At the top, there is a logo with a mosquito icon and the text 'mosquito DB'. Below the logo, the word 'LOGIN' is centered. There are two input fields: 'Email' with the value 'janicestephen36@gmail.com' and a mail icon, and 'Password' with a masked password '.....' and a lock icon. A green 'Login' button with a right arrow is positioned below the password field. At the bottom, there is a link for 'First time user? Register' and a link for 'Forgot Password Reset'.

## 2.3 Working with home page

Once logged in note that;

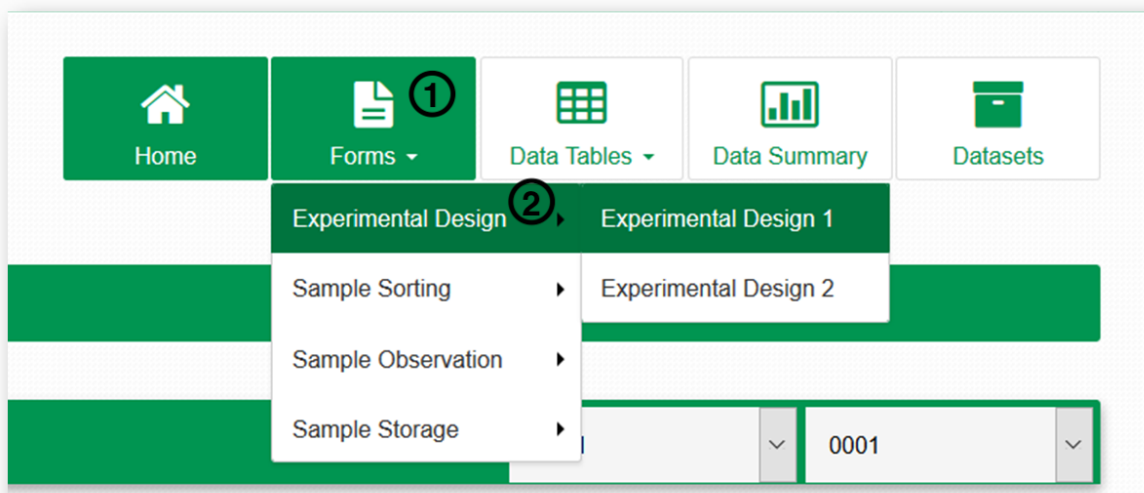
- Only users provided with access to a specific project(s) can access those projects
- Only projects added into the system can be accessed
- Only Project Investigators or Leaders add project to the system
- Only Project Investigators or Leaders who have added a project can grant access to registered users
- Only give access to members in your team and collaborators – or those you have agreed to share data with.



## 2.4 Working with the main menu

Once logged in note that;

- Only users provided with access to a specific project(s) can access those projects
- Only projects added into the system can be accessed
- Only Project Investigators or Leaders add project to the system
- Only Project Investigators or Leaders who have added a project can grant access to registered users
- Only give access to members in your team and collaborators – or those you have agreed to share data with.





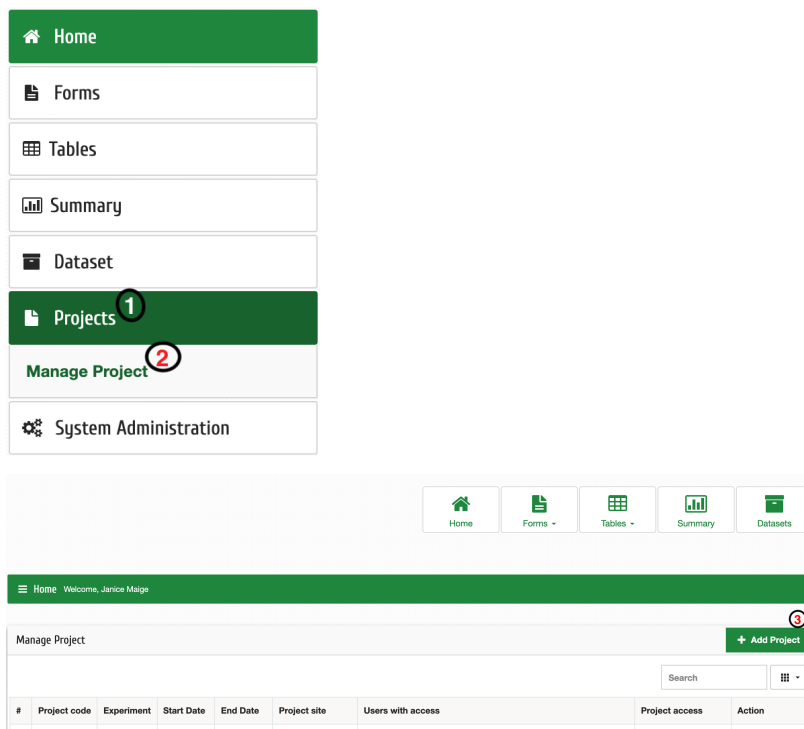
## PROJECT MANAGEMENT

### 3.1 Add a project

**Step 1:** Click Projects

**Step 2:** Click Manage Project

**Step 3:** Click +Add Project



**Step 4:** Enter project details;

- a: Project name – long format (e.g., Producing User Guide)
  - b: Project code – Abbreviation of the project name(e.g., TEG)
  - c: Experiment number (e.g., 1 if it's the first experiment for the project)
  - d: Select site name from a drop downmenu (if not available – Add a site?)
  - e: Select appropriate date - same for expected end date
- Select responsible scientist from dropdown menu (e.g., Project Leader)

Then click “Submit”

Home
Welcome, Janice Maige

Project Add

Project name : \*
Producing User Guide

Project code : \*
PUG

Experiment number : \*
001

Project site : \*
Burkina Faso (BF)

Experiment start date : \*
2021-05-31

Experiment end date : \*
2021-08-23

Responsible scientist :
Janice Maige

Submit

## 3.2 Grant access to an existing project

**Step 1:** Click Projects then Manage Project

**Step 2:** Search your project based on the project code (e.g., MXTG)

**Step 3:** Click on Grant/Revoke button

Home
Forms
Tables
Summary
Dataset
**Projects**
Manage Project
System Administration

Home
Welcome, Janice Maige

Manage Project

+ Add Project

MXTG

#	Project code	Experiment	Start Date	End Date	Project site	Users with access	Project access	Action
9	MXTG	0001	2021-05-13	2021-07-15	Burkina Faso (BF)	merocrypto , Janice	Grant / Revoke	Edit + Exp
10	MXTG	0002	2021-05-05	2021-07-10	Burkina Faso (BF)	Janice	Grant / Revoke	Edit + Exp

Showing 1 to 2 of 2 rows

**Step 4:** Select the user you want on the user dropdown

Then click “Submit”



Home Welcome, Janice Maige

Project Grant Access to user

Project name : \* TestNew

Project code : \* MXTG

Experiment number : \* 0002

Project site : \* Burkina Faso (BF)

Status : \* Grant Access

User : \*

4

Samson Kiware

### 3.3 Add an experiment to a project

**Step 1:** Click Projects then Manage Project

**Step 2:** Search your project based on the project code (e.g., MXTG)

**Step 3:** Click on **+Exp** button

Home
Forms
Tables
Summary
Dataset
**Projects**
Manage Project 1
System Administration

Home Welcome, Janice Maige

Manage Project

+ Add Project

MXTG 2

#	Project code	Experiment	Start Date	End Date	Project site	Users with access	Project access	Action
9	MXTG	0001	2021-05-13	2021-07-15	Burkina Faso (BF)	merocrypto , Janice	Grant / Revoke	Edit + Exp
10	MXTG	0002	2021-05-05	2021-07-10	Burkina Faso (BF)	Janice	Grant / Revoke	Edit + Exp 3

Showing 1 to 2 of 2 rows

**Step 4:** Enter new experiment details;


**a:** Experiment number (e.g., 002)

Select site name from a dropdown menu (if not available – Add a site?)

**c:** Select appropriate date - same for expected end date

**NB:** The rest of the fields are filled by default

**d:** Click “Add Experiment”

 Home Welcome, Janice Maige

Project Edit

Project name : \*

TestNew

Project code : \*

MXTG

Experiment number : \*

002 **a**

Project site : \*

Dar es salaam (TZ) **b**

Experiment start date : \*

2021-05-12 **c**

Experiment end date : \*

2021-08-05

Responsible scientist :

Janice Maige

**d**

✓ Add Experiment

## FORMS MANAGEMENT

### 4.1 Forms Management

MosquitoDb assists with data collection through data collection forms, that are customised and readily available to fit different vector specific projects and/or experiments. Though they were previously made specifically for mosquito data collection, they are now being adapted to other vectors starting with Snails

The available forms are filled with specific field and the user can easily add other fields that they will need in their experiment.

### 4.2 Setting up the forms

In order to start working on the forms, make sure you have created a project first following the steps on 3.1.

The forms on MosquitoDb are used as below;

- a:** Experimental Design 1 is used to collect field data
- b:** Experimental Design 2 collects from semi-fields
- c:** Sample Sorting 1 collects mature mosquito data
- d:** Sample Sorting 2 collects immature mosquito data
- e:** Sample Sorting 3 collects resistance data
- f:** Sample Sorting 4 collects snail data
- g:** Sample Observation 1 laboratory data collected from field
- h:** Sample Observation 2 laboratory data collected from semi-field
- i:** Sample Storage 1 collects storage data from field
- j:** Sample Storage 2 collects storage data from semi-field

After creating a project select the project and experiment then;

### 4.2.1 Customise form fields

**Step 1:** Click System Administration then Customisation

**Step 2:** Choose the forms that you want to have in your experiment e.g Experimental Design, then choose either Experimental Design 1 or 2

**Step 3:** Check or uncheck any non-mandatory field

Click Save Fields or Delete Saved to uncheck the non-mandatory fields”

Do the same for all forms that you need in your experiment

### 4.2.2 Customize template

**Step 1:** Click System Administration then Customisation

**Step 2:** Click Customise General Template

**Step 3:** Click Download on the field you want to customise e.g Methods

**Step 4:** After editing the Methods on excel file, click Choose File, choose the edited excel file then click Import to upload the data

The screenshot shows the MosquitoDB web application interface. On the left is a sidebar menu with options: Summary, Dataset, Projects, System Administration, and Customization (highlighted with a circled 1). The main area has a 'Customization Menu' at the top with buttons for Experimental Design, Sample Sorting, Sample Observation, Sample Storage, Customize Labels, and Customize Theme. Below this is a header for 'Experimental Design' with a circled 2 and buttons for 'Customize General Template' and 'Download Entry Template'. The main content area is titled 'Method' with a circled 3 and a 'Download' button. Below the title bar, there is a file upload section with a circled 4, a 'Choose file' button, 'No file chosen' text, and an 'IMPORT' button. At the bottom is a table with two columns: 'Number' and 'Text'.

Number	Text
1	HLC
2	Ifakara tent trap
3	CDC

## 4.3 Data entry

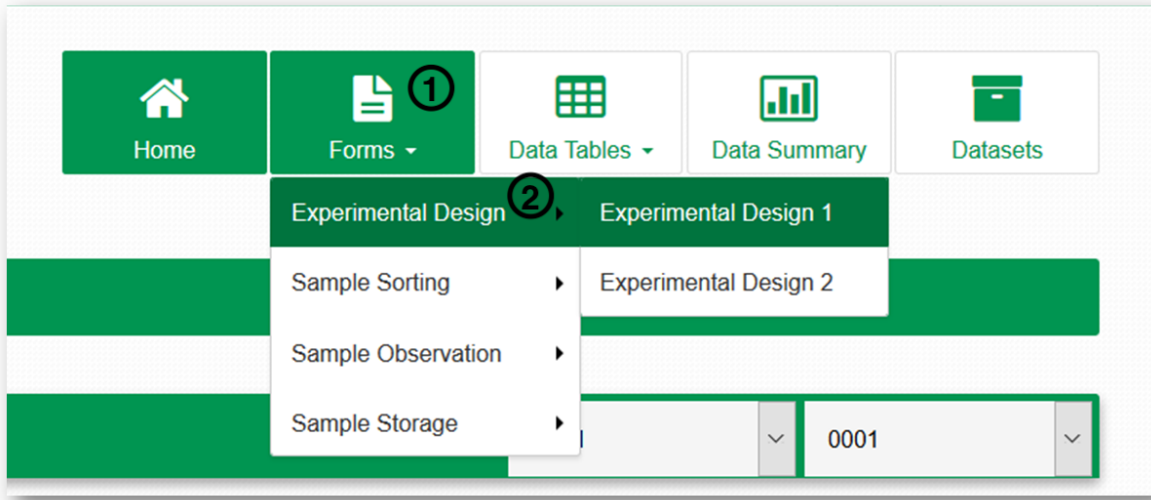
On completion of your experiment, you can upload data to the system through the Web application or the android application.

**NB:** This can be done after customizing the forms following the steps in 4.2.1

### 4.3.1 Selecting the data entry form

**Step 1:** Click Forms on the Menu

**Step 2:** Guide the cursor to the top of the form type that you want to select the specific form from the dropdown



**Step 3:** Click Download Template, then enter the data in the downloaded excel sheet

**Step 4:** Click Upload File and select the filled excel file

**Step 5:** Click Submit

Forms For: LIDAR2016
LIDAR2016
0001

Experimental Design
3
Download Template

Ifakara (TZ)

4
Upload File

5
Submit

## 4.4 Customise data table labels

You can edit the name label names of the data tables.

**Step 1:** Click System Administration then Customization

**Step 2:** Click Customize Labels

**Step 3:** Select the labels you want and deselect the one you don't want

**Step 4:** Click Submit

The screenshot displays the MosquitoDB interface for customizing data table labels. On the left is a sidebar menu with options: Summary, Dataset, Projects, System Administration (highlighted), and Customization (marked with a circled 1). The main content area is titled 'Customization Menu' and contains a grid of buttons: Experimental Design, Sample Sorting, Sample Observation, Sample Storage, i Customize Labels (marked with a circled 2), and Customize Theme. Below this is a section titled 'Customize Labels/Values displayed' containing a list of checkboxes: Method (ME) (checked), Indoor (IND), Enumeration area (EA) (marked with a circled 3), Cluster (CR), Compound or plot (CP), Treatment (TR), and Habitat type (HT). At the bottom right of this section is a 'Submit' button (marked with a circled 4) preceded by a checkmark icon.





## USER MANAGEMENT

### 5.1 Edit Profile

Once registered in MosquitoDb you can change your user details through the steps below;

**Step 1:** Click on your name on the top left of the page, then select Profile on the dropdown

**Step 2:** Click Edit Profile to change your details or Edit password to change your password

**Step 3:** After editing, click Update to save your changes

The screenshot displays the MosquitoDb web application interface. At the top, a green navigation bar contains the user's name 'Janice Maige' and a dropdown menu with 'Profile' selected. Below the navigation bar, a sidebar on the left lists various system components: Home, Forms, Tables, Summary, Dataset, Projects, and System Administration. The main content area shows a dashboard with several data points, each represented by a green square and a numerical value (all are 0). Below this, there is a 'Date Filter' section with a date range selector and an 'Apply Filter' button. At the bottom of the main content area, a copyright notice reads '© Copyright 2021. All rights reserved Mosquito Database Management System' and the version 'MosquitoDB 3.1.0' is displayed.

**Janice Stephen Maige**

ID:	1085
FULL NAME:	Janice Stephen Maige
STATUS:	Enabled Account
SECURITY LEVEL:	Power User
PHONE:	+2557457182844
EMAIL:	janicesophen08@gmail.com
STAFF GROUP:	Scientist

2 [Edit Profile](#) [Edit Password](#)

Home

Welcome, Janice Maige

Change password

Old password: \*

.....

New password: \*

.....

Password Strength : Strong

Confirm new password: \*

.....

Passwords Match!

3

Update

## DATA VISUALIZATION

### 6.1 Data Summary

**Step 1:** Click Summary

**Step 2:** Select the project code and Experiment number you want to view data

**Step 3:** Filter data from the tabs i.e Method, Location, Date e.t.c click “Clear” to clear the selections for re-entry.(Optional Step)

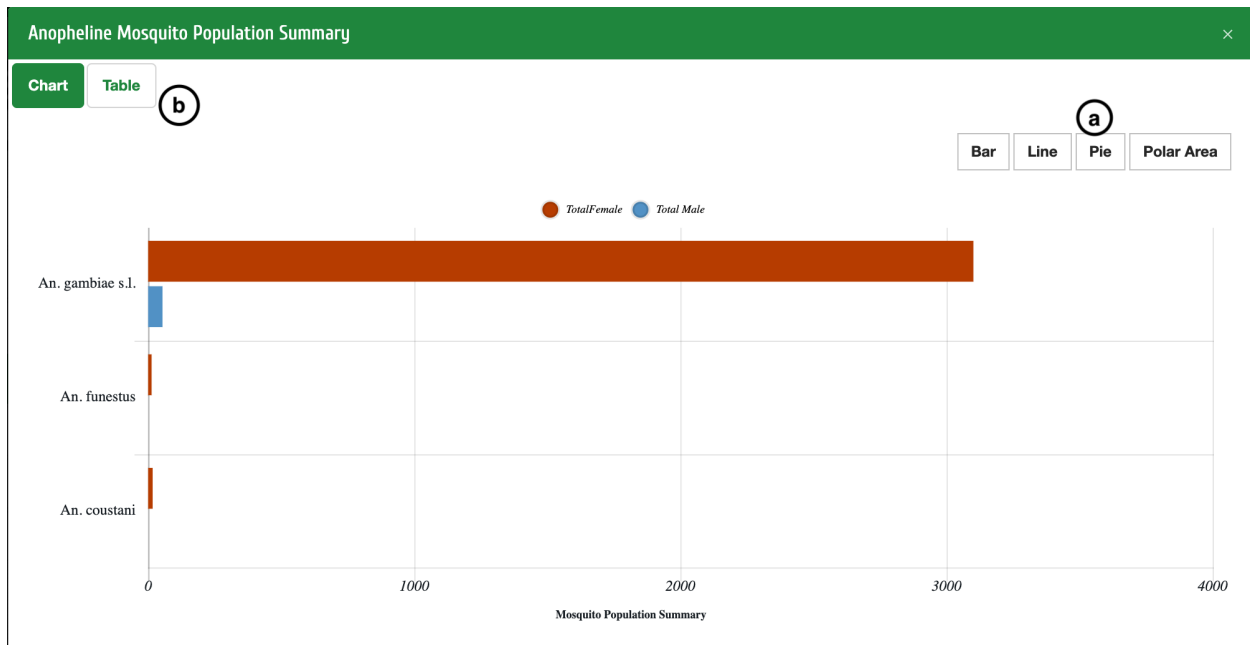
**Step 4:** Click the summary you want to view on Data summary table or Frequency graphs based on the data available and/or filtered.

The screenshot displays the 'Data Summary' interface. At the top, a navigation bar includes icons for Home, Forms, Tables, Summary (highlighted with a green background and a circled '1'), and Datasets. Below this is a green header bar with a hamburger menu, 'Home', and 'Welcome, Janice Maige'. A secondary green bar shows 'Data Summary For: LIDAR2016' with dropdown menus for 'LIDAR2016' and '0001' (marked with a circled '2'). The main content area contains filter sections for 'Method (ME):', 'Location (IND):', 'Date', and 'Enumeration Area (EA):', each with a 'Select' dropdown. Below these are 'Habitat type (HT):' and 'Treatment (TR):' dropdowns. A circled '3' is placed over the filter area. At the bottom left, there are 'Apply Filter' and 'Clear' buttons. The bottom section, titled 'Data Summary', is divided into two columns. The left column, 'Summary Graphs', lists 'Anopheline Mosquito Population Summary' (marked with a circled '4'), 'Culicine Mosquito Population Summary', and 'Anopheline Female Mosquito Caught - Daily'. The right column, 'Frequency Graphs', lists 'Enumeration area', 'Method', and 'Cluster'.

## 6.2 Working with Charts

You can view different charts by selecting either Bar, Line, Pie or Polar Area

**b:** You can select Table to view the data in tabular form



**Anopheline Mosquito Population Summary**

Chart | Table

	TotalFemale	Total Male
An. gambiae s.l.	3101	54
An. funestus	13	0
An. coustani	17	0

## 6.3 Datasets

To view datasets of a specific project, select the project and experiment number then;

**Step 1:** Click Tables on the Menu

**Step 2:** Select the form from which you want to view the data e.g Experimental Design 1 to view the data collected using ED1

**Step 3:** You can now view and search for specific data

Home

Forms

Tables 1

Experimental Design 1 2

Experimental Design 2

Sample Sorting 1

Sample Sorting 2

Sample Sorting 3

Sample Sorting 4

Sample Observation 1

Sample Observation 2

Sample Storage 1

Sample Storage 2

Home Welcome, Janice Maige

Dataset Summary For: LIDAR2016

0  
SUBMITTED TODAY

SUBMITTED TH

30  
EXPERIMENTAL DESIGN

3  
SAMPLE S

Date Filter

Apply

Mosquito Population Summary

	Total female	Unfed female
<i>An. gambiae</i> s.l.	3101	3094

Experimental Design

3

Search

Showing 1 to 30 of 30 rows

ID	Serial No. (SEN)	Formrow (FR)	Date of collection (DT)	Method (ME)	Indoor (IND)	Start time (ST)	Finish time (FT)	Valid catch (VC)	Destination Form Serial (DSEN)
1	16781	1	2016-08-31	CDC	1	1800	1900	1	16782
2	16781	2	2016-08-31	CDC	1	1800	1900	1	16783
3	16781	3	2016-08-31	CDC	1	1800	1900	1	16784
4	16785	1	2016-09-01	CDC	1	1800	1900	1	16786
5	16785	2	2016-09-01	CDC	1	1800	1900	1	16787
6	16785	3	2016-09-01	CDC	1	1800	1900	1	16788
7	16933	1	2016-09-02	CDC	1	1800	1900	1	16934
8	16933	2	2016-09-02	CDC	1	1800	1900	1	16935
9	16933	3	2016-09-02	CDC	1	1800	1900	1	16936

## 6.4 Downloading Data

**Step 1:** Select project and experiment then Click Dataset

**Step 2:** Select the form from which you want data from e.g Sample Sorting Data

**Step 3:** Then select the specific Sample Sorting data e.g SS2

**Step 4:** Click Generate Dataset

Home Welcome, Janice Malgo

Dataset For: LIDAR2016 LIDAR2016 0001

Generate various single/combined datasets

<input type="checkbox"/> Experimental Design	<input checked="" type="checkbox"/> Sample Sorting ②	<input type="checkbox"/> Sample Observation	<input type="checkbox"/> Sample Storage	<input type="checkbox"/> Other options
<input type="radio"/> ED1 <input type="radio"/> ED2	<input type="radio"/> SS1 <input checked="" type="radio"/> SS2 ③ <input type="radio"/> SS3 <input type="radio"/> SS4	<input type="radio"/> SO1 <input type="radio"/> SO2	<input type="radio"/> ST1 <input type="radio"/> ST2	<input type="radio"/> Transpose

④ Generate Dataset

If you want to select data from different forms then;

**a:** Select the forms you want e.g Experimental Design and Sample Sorting

**b:** Select the specific forms e.g ED1 and SS2

**c:** Select Other options, then click Transpose

**d:** Click Generate Dataset

Dataset For: LIDAR2016 LIDAR2016 0001

Generate various single/combined datasets

<input checked="" type="checkbox"/> Experimental Design	<input checked="" type="checkbox"/> Sample Sorting ①	<input type="checkbox"/> Sample Observation	<input type="checkbox"/> Sample Storage	<input checked="" type="checkbox"/> Other options
<input checked="" type="radio"/> ED1 ② <input type="radio"/> ED2	<input type="radio"/> SS1 <input checked="" type="radio"/> SS2 ② <input type="radio"/> SS3 <input type="radio"/> SS4	<input type="radio"/> SO1 <input type="radio"/> SO2	<input type="radio"/> ST1 <input type="radio"/> ST2	<input checked="" type="radio"/> Transpose ③

Generate Dataset ④

## SETTINGS

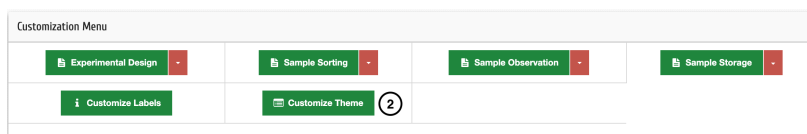
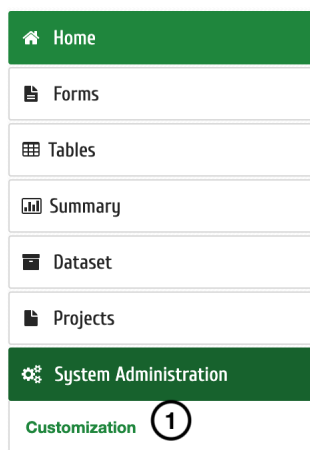
### 7.1 Appearance


You can customise MosquitoDb to suit your organisations theme;

**Step 1:** Click System Administration then Customization

**Step 2:** Click Customise Theme

**Step 3:** Enter the organization name and select your theme of choice from the dropdown , click Submit to save your changes



 Home   Welcome, Janice Maige

System Settings

Organization Name: \*

Mosquito Database Management System

System theme: \*

Green

▼

3

Submit



## MOSQUITODB APP

### 8.1 Overview

The MosquitoDb application is used for data collection in the field and also view data from particular experiments when working in the field.

Requirements: Operating system OS Android – <4.0 Version | SmartPhones or Tablets | Access to Internet – Upload & Downloading Projects | Install Android Package Kit(APK's)- for MosquitoDB file

### 8.2 App setup

To use MosquitoDb App, first download the App from PlayStore by searching MosquitoDb

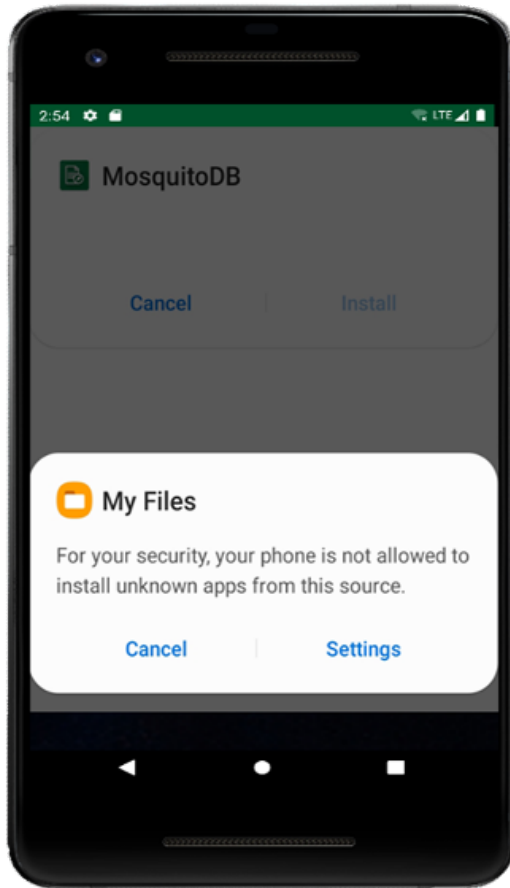
Install the first app who's owner is **Samson Kiware**

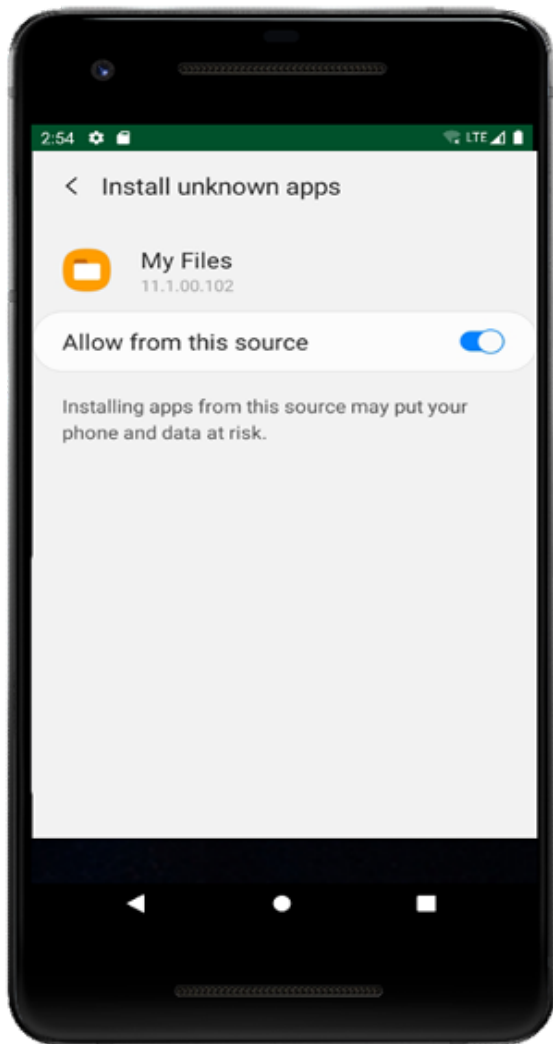
**OR**

If you have the apk, then;

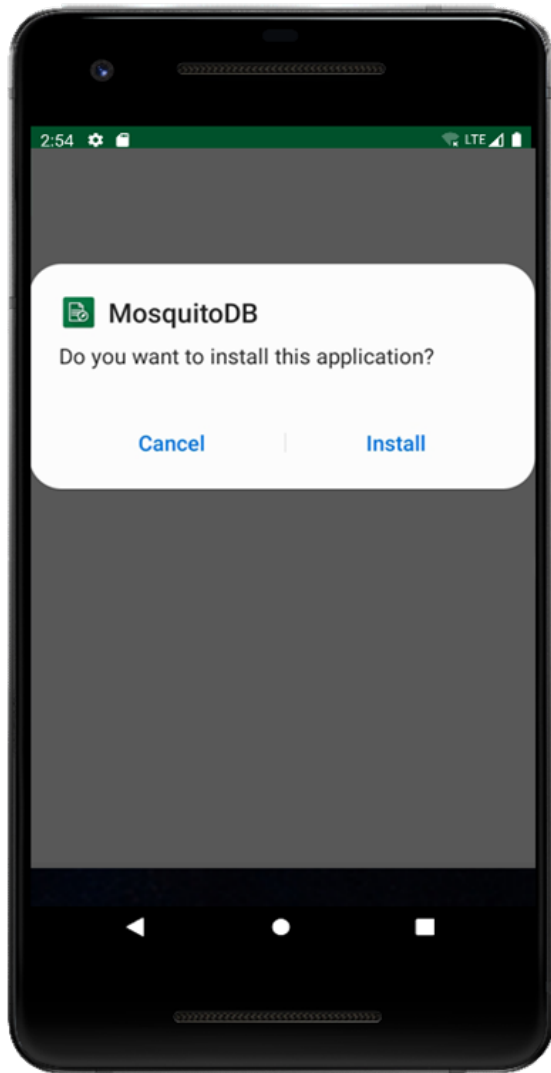
**Step 1:** Allow Unknown sources to install apps on your phone

- a:** Go to Settings, then apps
- b:** Select the app from which you got the apk e.g WhatsApp
- c:** Scroll down to “Install Unknown apps” and allow it.





**Step 2:** Install the app



## 8.3 Using the App

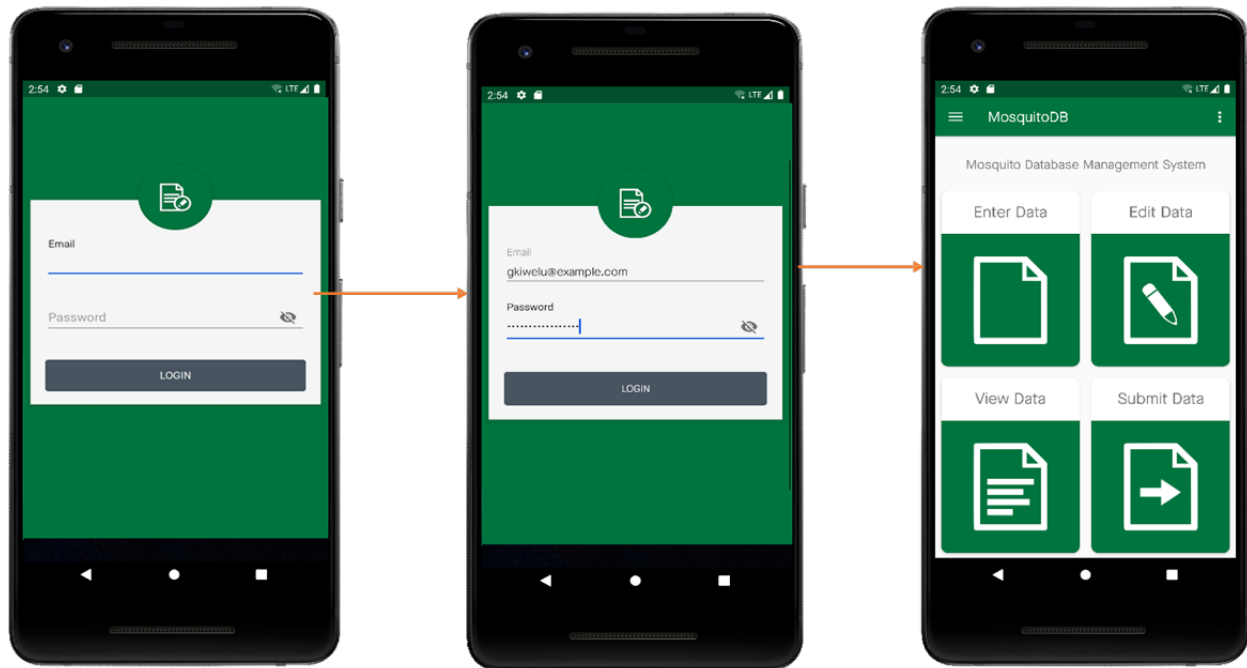
### 8.3.1 Login

**NB:** You can only use the app after creating an account on MosquitoDb Web

**Step 1:** On running the app you'll be prompted to select the language of your choice either French or English.



**Step 2:** Enter your login credentials then click Login.



### 8.3.2 Accessing a project

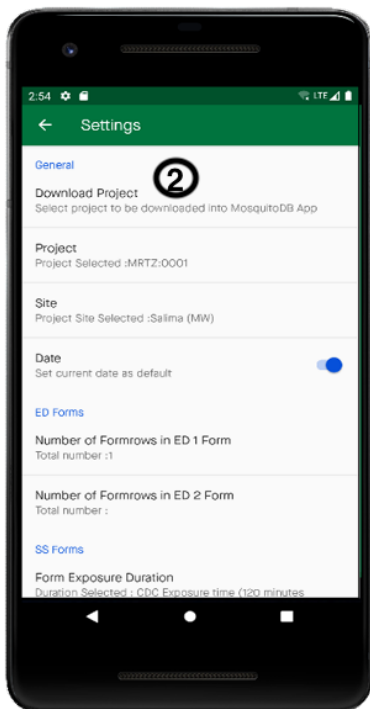
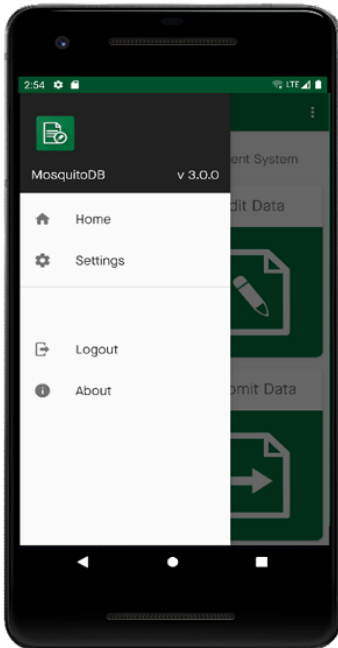
**NB:** Inorder to access a project, you should have been given access from MosquitoDB Web, by the Project Owner or create your own project in MosquitoDB Web, then access it from the App.

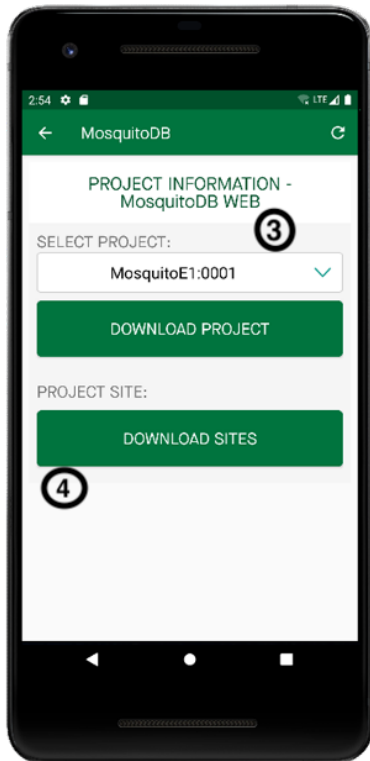
**Step 1:** Click on the Menu Bar, then select Settings

**Step 2:** Select Download project

**Step 3:** Click on the dropdown to select the project you want to access, then click **Download Project**

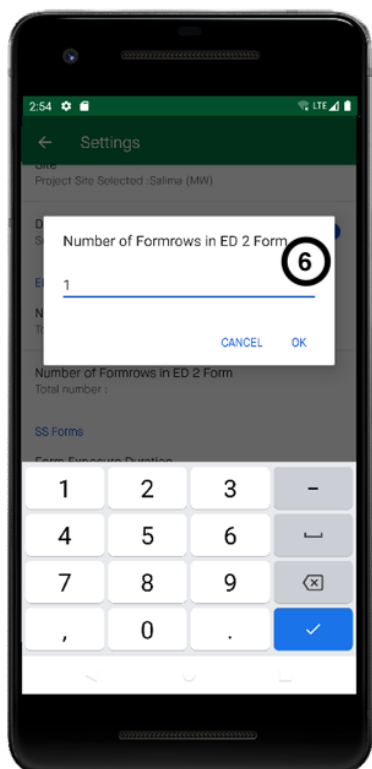
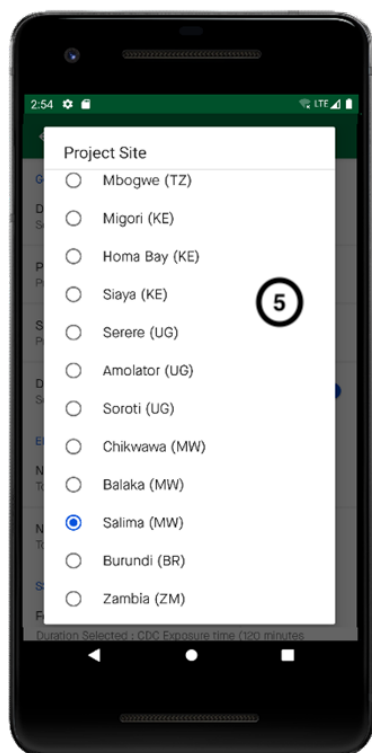
**Step 4:** Click **Download Sites**





**Step 5:** On the Settings page, click **Site**, then choose the Site that your project is in  
On the same page, click “Number of Formrows in ED1” if you are using ED1 or “Number of Formrows in ED2” if you’re using ED2. Then set the no of rows you’ll use in your ED Form and click **OK**





### 8.3.3 Enter Data

#### Experimental Design

**Step 1:** On the Home Page, Select **Enter Data**

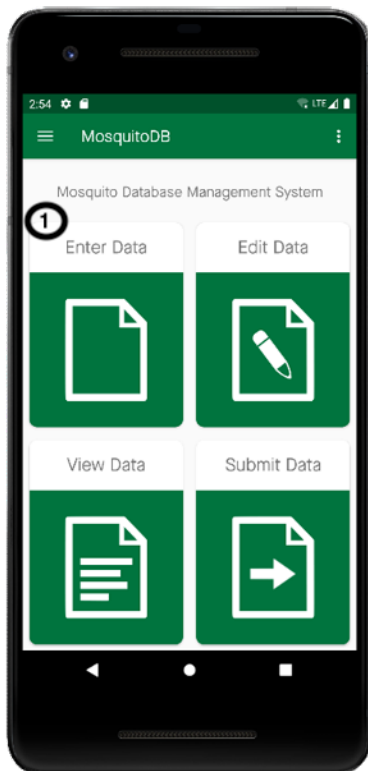
**Step 2:** Select the form for which you want to enter Data e.g Experimental Design Form ( Review Chapter 4.2, for the use of the forms). Then choose the form number according to your experiment e.g if you're working on the field, then use ED1

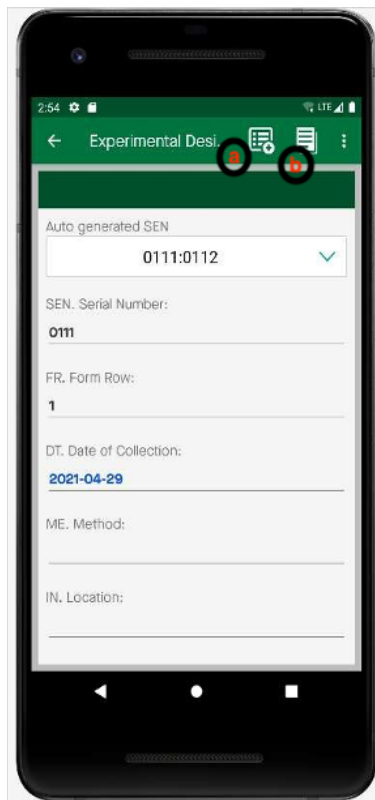
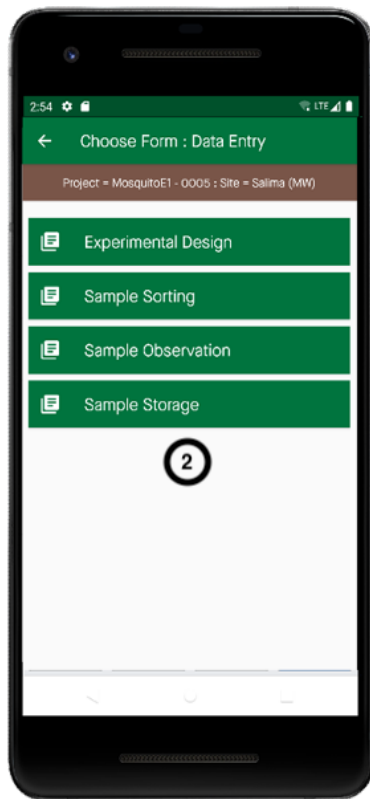
**NB:** You have to fill in data in ED Forms, then you can continue adding data in other forms e.g SS2

**Step 3:** On the ED Form, you can start filling in your data

**a:** Click to view pre-recorded data

**b:** Click to auto generate Serial No.





**Step 5:** When you're done entering Click Save. This saves the data in your device before pushing it to the cloud.

**Step 6:** To enter another set of data for the same experiment, click this is not the last entry on the popup.

## Sample Sorting

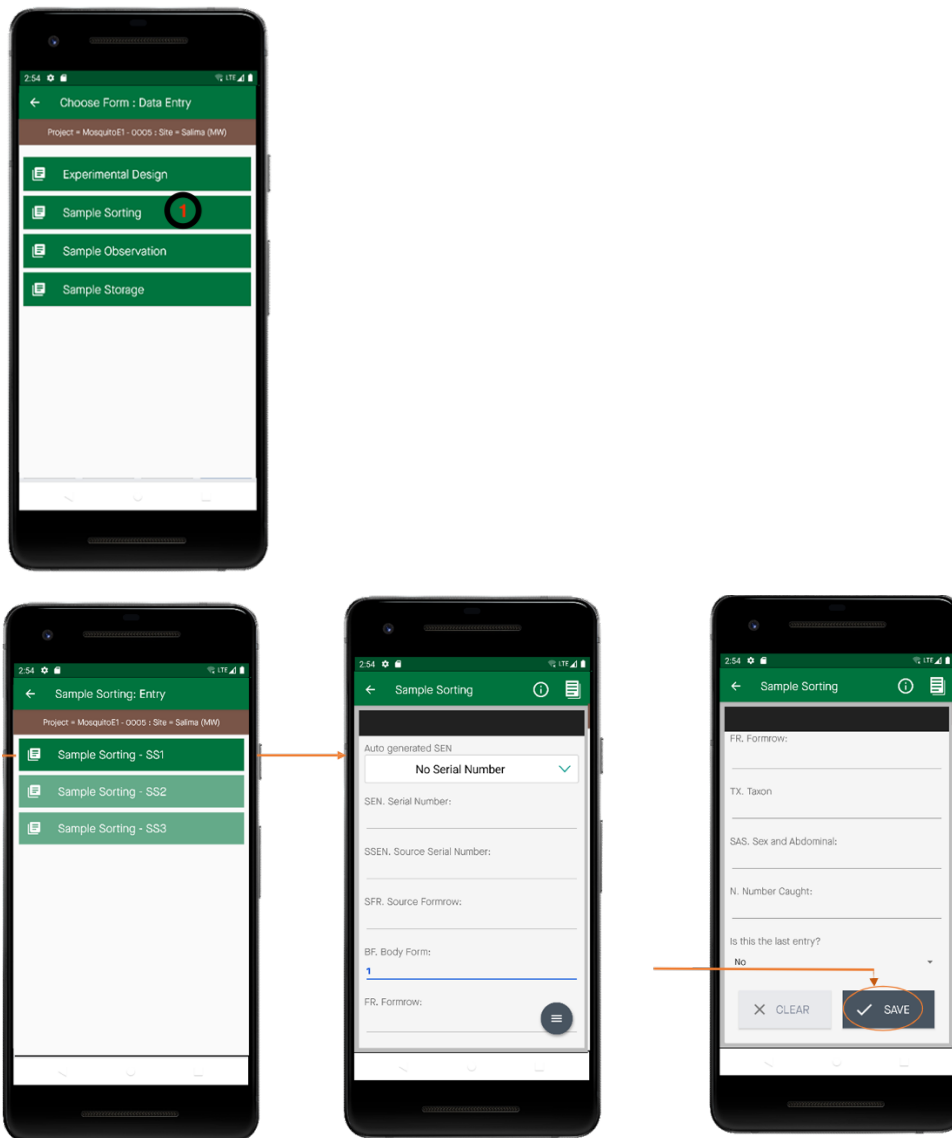
**NB:** You have to fill in data in ED Forms, before you can enter Sample Sorting Data.

**Step 1:** Select Sample Sorting

**Step 2:** Select the form for which you want to enter Data e.g Sample Sorting 1

**Step 3:** SEN is generated automatically from ED1, you can continue filling your data.

**Step 4:** Save your data in your device, before sending to the cloud.



Please follow the same steps to enter Sample Observation(SO) and Sample Storage(ST) Data

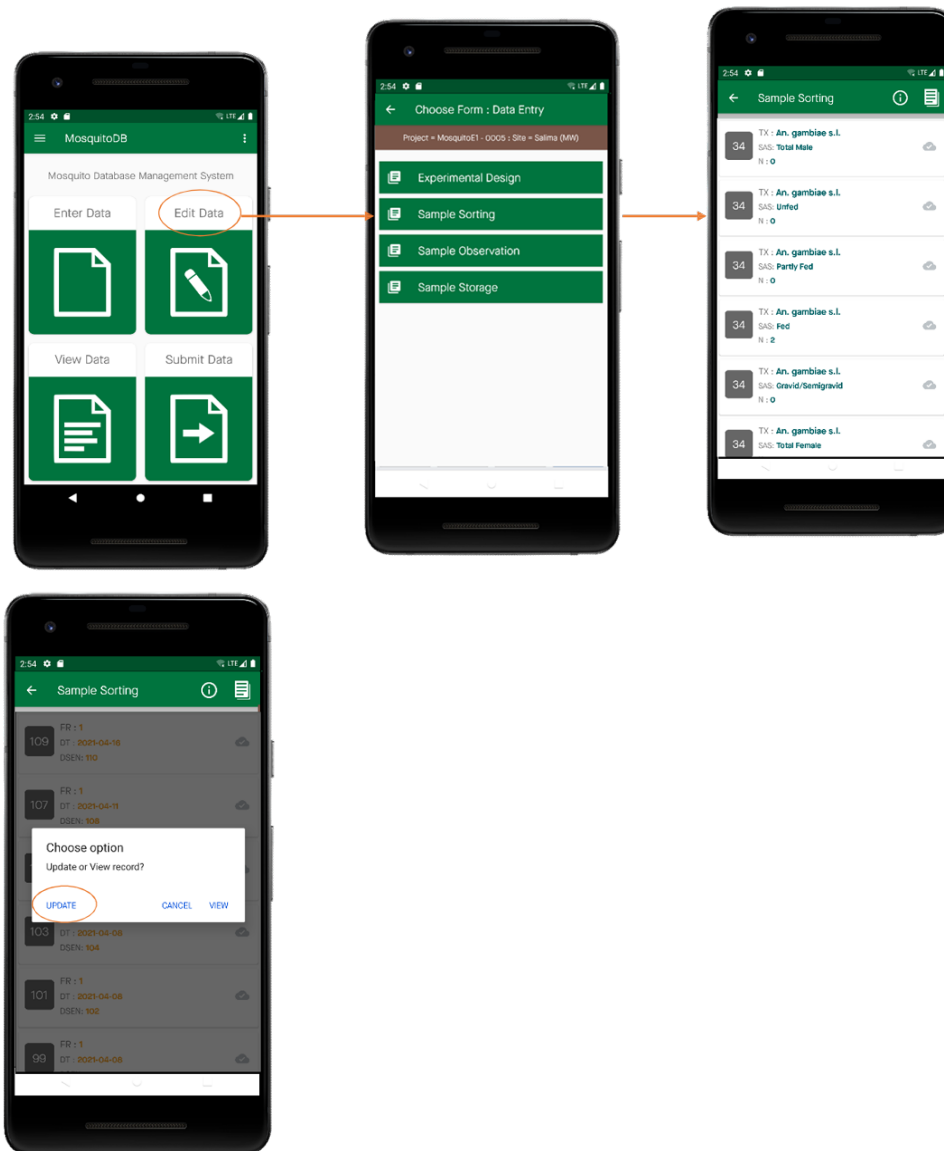
### 8.3.4 Edit Data

**Step 1:** On the Home Page, Select **Edit Data**

**Step 2:** Select the form whose data you want to edit e.g Sample Sorting

**Step 3:** Select whether to view or Update the Data. On clicking update you'll be able to edit the data.

**Step 4:** Click Save to keep your updated changes.

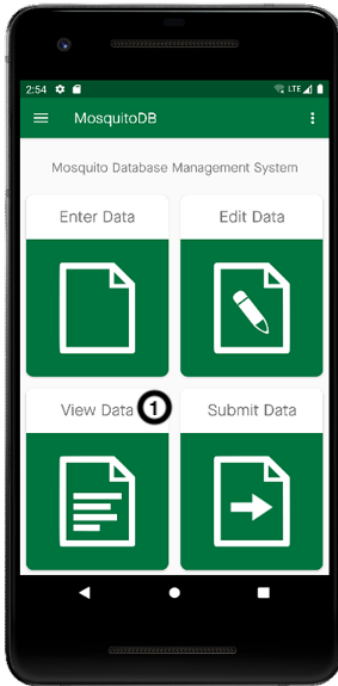


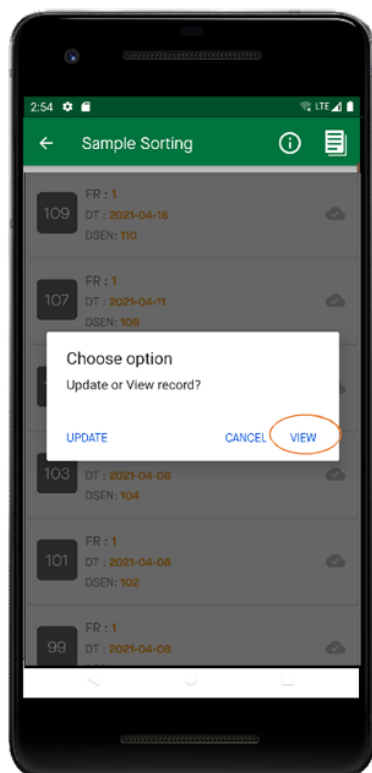
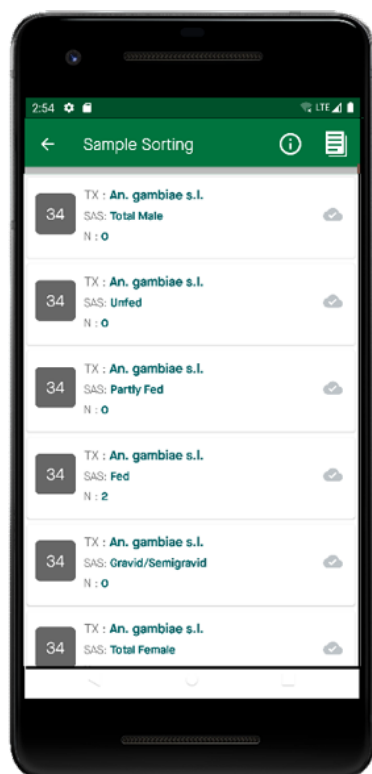
### 8.3.5 View Data

**Step 1:** On the Home Page, Select **View Data**, then select the form whose data you want to view and e.g Sample Sorting

**Step 2:** Select the data set you want to view

**Step 3:** Click View





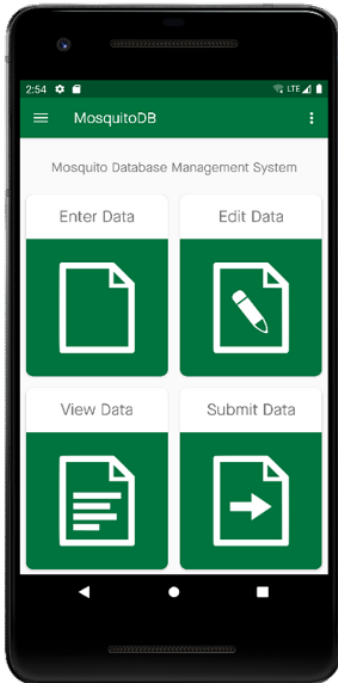
### 8.3.6 Submit Data

**NB:** This feature is used to send data to the cloud, to use it, you must have already entered data through the forms.

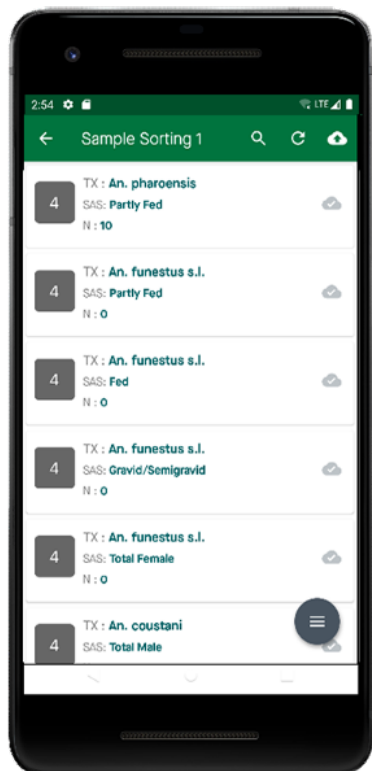
**Step 1:** On the Home Page, Select **Submit Data**, then select the form whose data you want to submit and e.g Sample Sorting

**Step 2:** You'll see all the data sets that you have entered.

**Step 3:** Click the cloud icon, to push all your data simultaneously.









**APPENDIX**

**9.1 Data Dictionary**

**9.1.1 Experimental Design 1**

**Method**

<b>Experimental Design 1</b>		
<b>Method (ME)</b>	Key	Value
	1	HLC
	2	ITT
	3	CDC
	4	RB
	5	ERS
	6	Floor
	7	Entry Window
	8	Entry Eave
	9	Entry
	10	Exit Window
	11	Exit Eave
	12	Exit
	13	Dip
	14	Sub
	15	EM
	16	OVI
	17	EG
	18	DN

## Location

Indoor/Outdoor	Key	Value
	1	IN
	2	OUT

## 9.1.2 Sample Sorting 1

## Taxon

Sample Sorting 1 (SS1)		
Taxon	Key	Value
	1	An. gambiae s.l.
	2	An. funestus
	3	An. coustani
	4	An. pharoensis
	5	An. squamosus
	6	An. maculipalpis
	7	An. pretoriensis
	8	An. paludis
	9	An. wellcomei
	10	An. ziemanni
	49	Anopheles sp.
	50	Culex sp.
	60	Mansonia sp.
	70	Aedes sp.
	80	Coquilettidia
	71	Ae. aegypti

**Sex & Abdominal Status**

Sample Sorting 1 (SS1)		
Sex & Abdominal Status	Key	Value
	1	Total male
	2	Unfed
	3	Partly fed
	4	Fed
	5	Gravid/Semi gravid
	6	Total female