Livestock Pro Mobile Application

User Guide

Login Flow: -

Users log into the mobile application using their web application credentials.

After the first login with the mobile application, we fetch all the content for that particular farm's current database and download it to the local mobile device so the user can work with the most up to date content when offline.

For example: - Andrew is using the web application and he has 10 Livestock Records in the web application. He now wants to use the mobile application so he downloads the app and logs in with the same username and password that is used for his web application access.

Once he has logged in into the application the system will forcefully clone all 10 Records into the local mobile database so that he can now access all farm records in an offline mode.

Home Screen: -

Once the user logs into the application the user navigates to the home screen and the system will sync all the web data into a local database and this process occurs only once when the user login into the application.

Later on, if the user wishes to update the mobile application with content from the Web application, then he simply needs to click on the **Sync Pull** button (first button on top right corner). Now suppose the user wants to add some new updates on the mobile application and then push it up to the web application - he would be able to do so by adding the new data via the mobile application and then he simply needs to click on the **Sync Push** button. Please see below image for more reference.

The mobile app auto syncs with the web app database every 24 hours when the mobile device running the application has an internet connection. This ensures the mobile app maintains the most up to date records at all times.
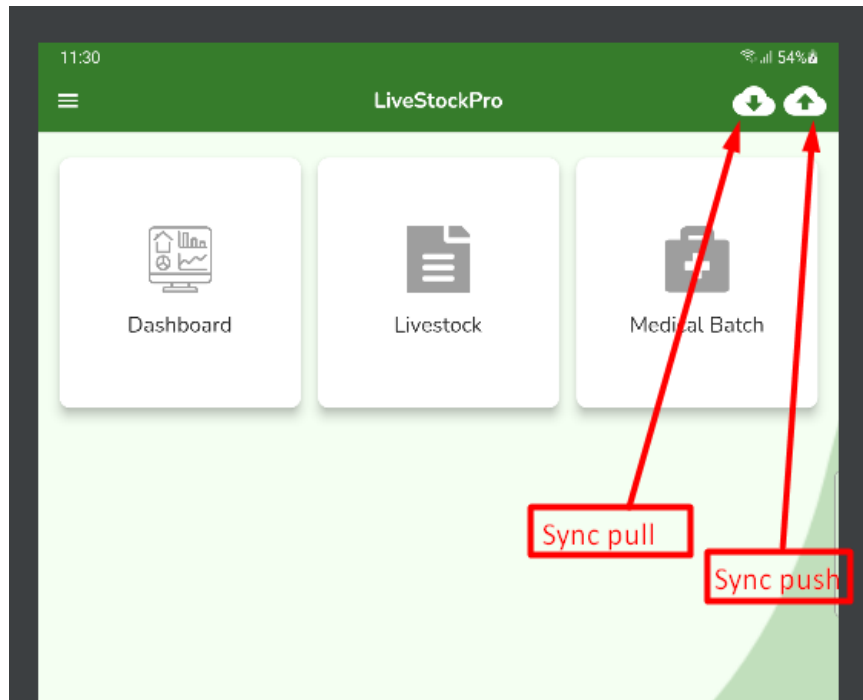
Sync Pull Button:

This button is used to sync the mobile application with the latest data available on the web application. This is used when a user updates records on the web application and wants to be able to view the latest updates on the mobile application..

Sync Push Button:

This button is for when there is new data created on the mobile application that needs to be pushed up to the web application. When the user presses this button the local data (that is created using the mobile application) syncs with the web application..

Dashboard: -

In this Screen, the user will see a Summary of records based on selected groups such as the Total number of animals, minimum weight, maximum weight, average weight.

The user will also see different charts for different filters based on selected groups such as weight graph, group by weight graph, ADG graph, etc.

The user will also see the number of activities that he/she performed on that specific date.

When the user clicks on any bar of the chart it will navigate to a list of records that fall under that filter and more on when you tap on that specific record you will navigate to the detail view of that record.

Livestock: -

This is the screen where the user views all the records that have been created. You can also search records by EID or Visual Tag and / or users can apply more search filters on records by clicking on the Advanced Search button.

Users can create a new record by clicking on the Add Record button. After clicking on that button the user will navigate to create a Record form.

Users can also edit the record by clicking on 3 dots on the right side of the record.

When a user Create/Edit the record first it will check the internet connection if the user has an internet connection, then data/record is stored in the Local database (mobile app) as well as the Remote database (cloud app).

If the user has no internet connection, then data will be stored in the Local database (mobile app) and when the user clicks the Sync Push button (Push) on the Home Screen it will sync with the Remote database (cloud app).

When the user clicks on record it will navigate to the detail screen where the user will see more detail of that record.

Users will see the following Details on the detail page

- Weight over time graph
- Record Detail
- Weight History
- Medical History
- Record History
- Activity History

Users can add new weight, new medical-Batch and new notes for that record by clicking on the top right dot icon.

For Example: - let say Andrew has added one weight activity into one Record in offline mode so the local mobile app will create a queue and add only this record into the queue.

After some time, Andrew creates a New Record (Visual Tag: - E0012) in offline mode so the record is created into the local database and the system will add this record into the previously created queue.

So, in the queue, we have a total of 2 piece of data waiting to sync with the cloud application

1) Weight Activity
2) New Record (Visual Tag:- E0012)

Now Andrew has an active internet connection and he pushes the local data on the mobile app into the Cloud app database. So the Web Application will look for the queue and if the queue has data the system will push only that data which is located inside the queue into the web application database and after a successful sync - the system will remove all data from that queue.

Now Andrew created one record in the Web Application and he wants to see that record in the application so he will click on the pull button when in the Mobile Application. When the user clicks the **Sync Pull** button the system will update only those records that are newly created or updated in the web application.

Sync Concept:

The basic concept of Sync is to simply ensure the main database is kept up to date with new data input from both the mobile and web applications.

So when the user logs into the application it will sync all web app data into the local mobile database so the user will have access to all of the current data in the mobile application.

When the user tries to sync local data into the main web app database the mobile application creates a queue for all the records that are needed to sync into the main web app database and each data point in the queue is synced one by one into the cloud server..