T086 BeeAware Beekeeping Modules: User Guide

Beeaware User Guide Contents

Introduction

The BeeAware website provides an all-in-one platform for beekeeping users to register, monitor and maintain their beehives. Our team, T086, has developed the beekeeping modules that specifically help users track their hive details including their Apiaries, Hives, and Inspections. Additionally, we have also adopted the User Registration/Login module.

The *Apiaries module* helps users manage multiple Apiary locations by providing the details of each site. This includes: Apiary Names, Addresses, Property Contacts, Associated Hives, Descriptions, Notes, Location in Google Maps, and the ability to Upload Images.

The *Hives module* helps users manage individual Hives by providing details of each hive. This includes: Hive Number or Name, Brood Pattern, Frame Quantity, Queen Excluders, Temperament, Comments, and Location in Google Maps.

The *Inspections module* helps users manage Inspections by providing details of each inspection. This includes: Brood Frames & Pattern, Honey Frames & Pattern, Egg Frames & Pattern, Empty Frames, Temperament, Comments, and Next Inspection Dates. In addition to this, they can also provide details of any diseases present within their hives. These would include: Diseases Observed, Severity, Descriptions, and the ability to Upload Images.
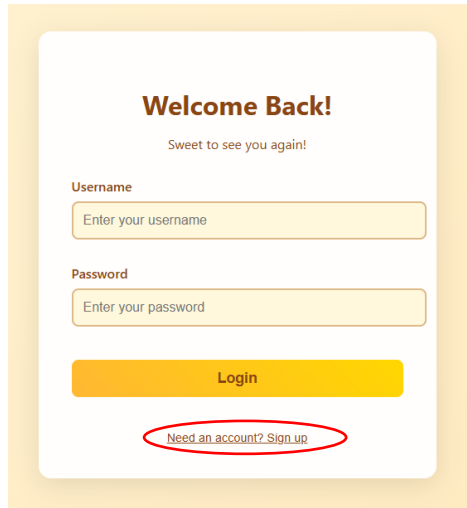
Lastly, the *User Registration/Login module* allows for different roles and permissions for users. At the current stage, Users that first visit BeeAware will need to register for an account. This includes a Username, Email, and Password. Then they can log into their account using their Username and Password.

Setup and Access

The 'BeeAware' website has been deployed using Docker through DigitalOcean hosting service. It can be accessed via the following URL address: http://209.38.27.26/.

User Login

Upon entering the 'BeeAware' website, the user will be required to log into their account using their Username and Password. If the user does not yet have an account, they can register for one by clicking the "Need an account? Sign up" button located at the bottom.
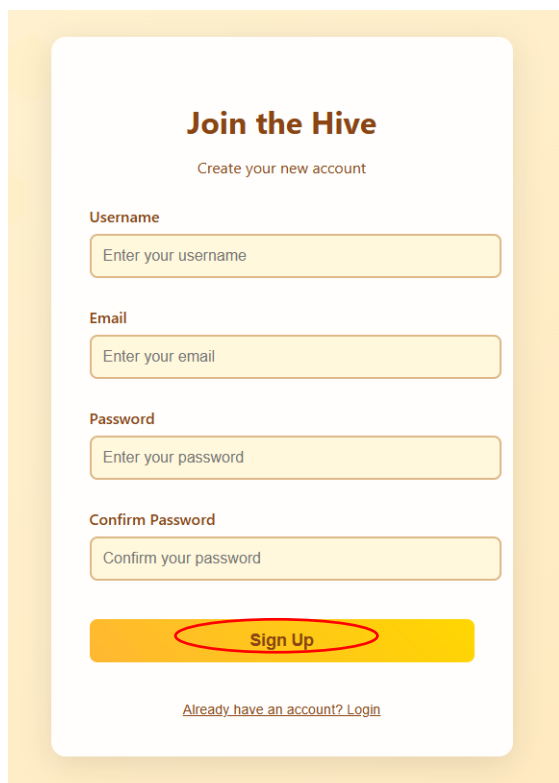
User Registration

The registration page has requires inputs from the user regarding their Username, Email, and Password before pressing the Sign-Up button to complete the process. The user will then be able to use the previously supplied Username and Password to login to their account.
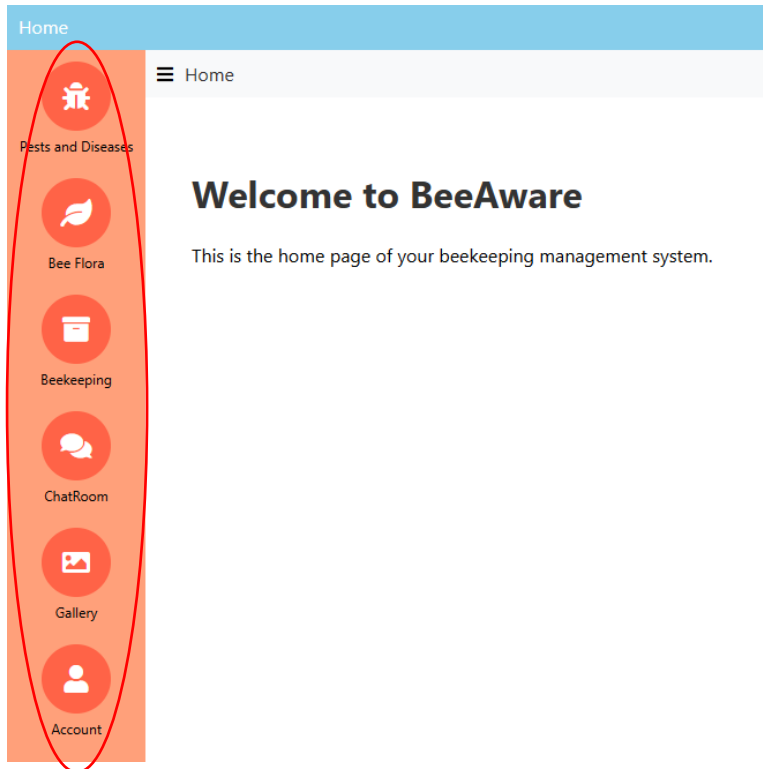
User Logout

Once the user has logged into their account, they can log out of their account by clicking the Logout button on the top right.
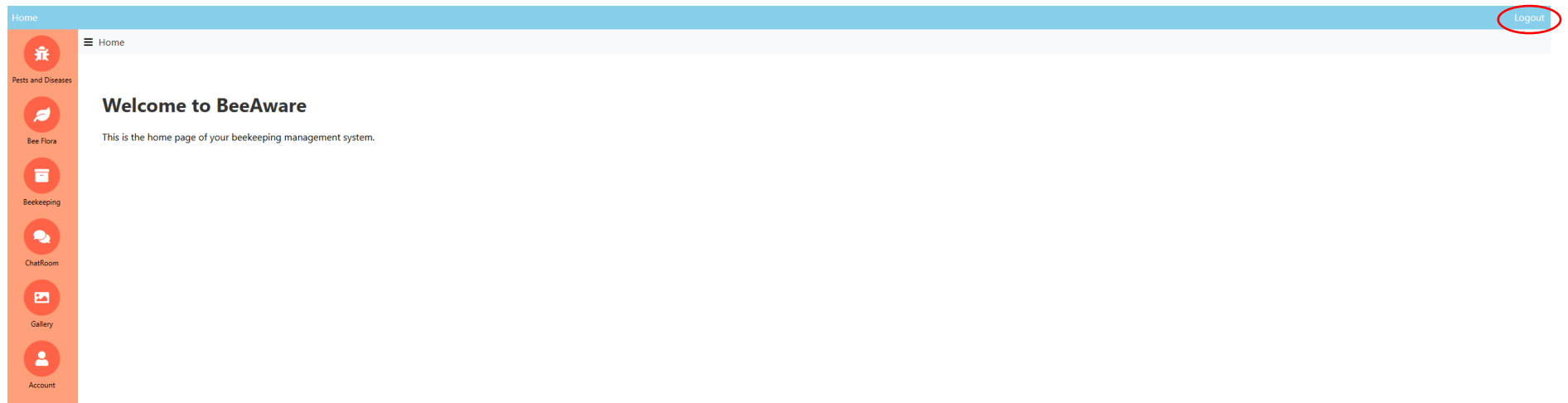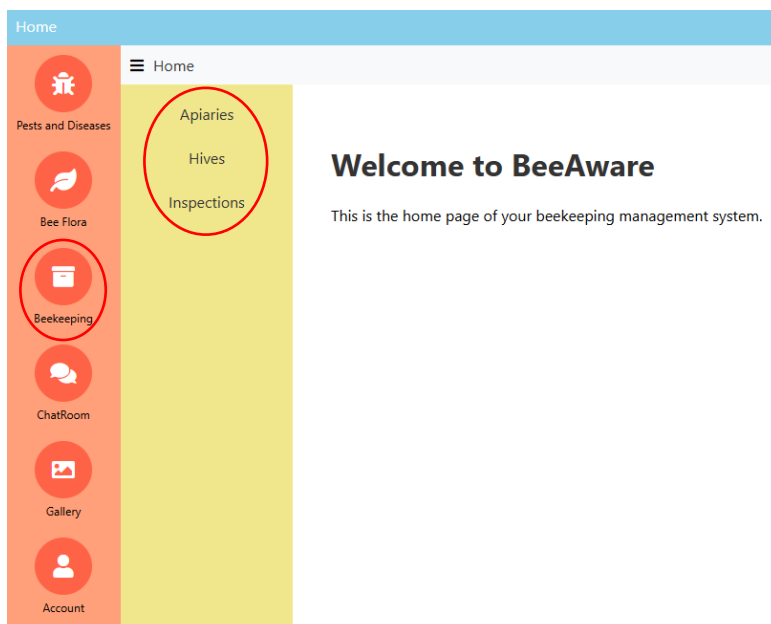
Navigation Menus

The *navigation menu* is located on the left of the home page. This gives the user access to "Pests and Diseases", "Bee Flora", "Beekeeping", "Chat Room", "Gallery", and "Account".
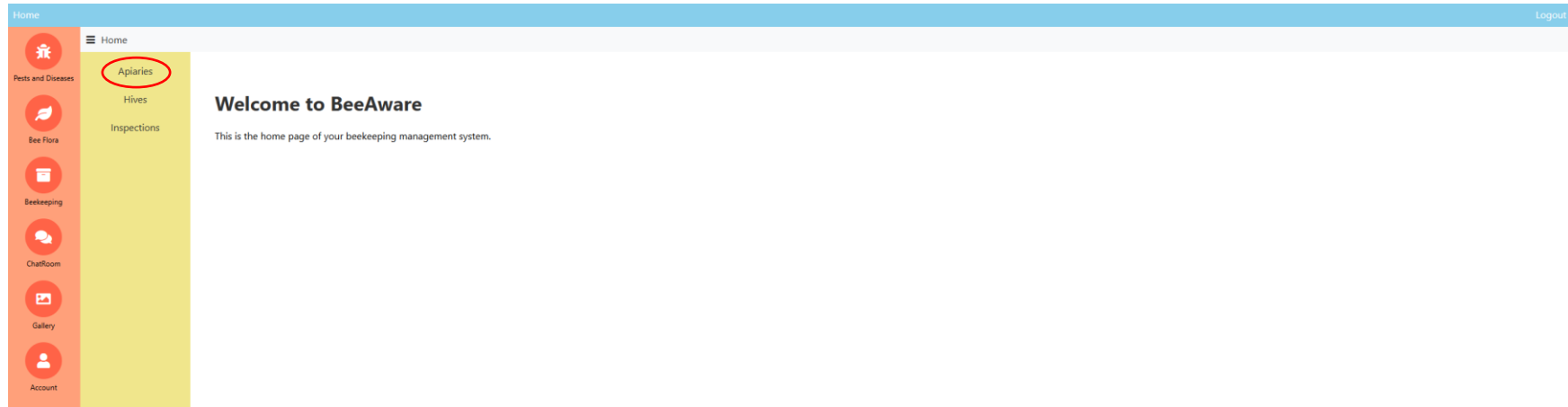

Our team, T086, has developed the Beekeeping modules. Upon clicking the "Beekeeping" button, a *second navigation menu* will open with three menu items: "Apiaries", "Hives", and "Inspections".
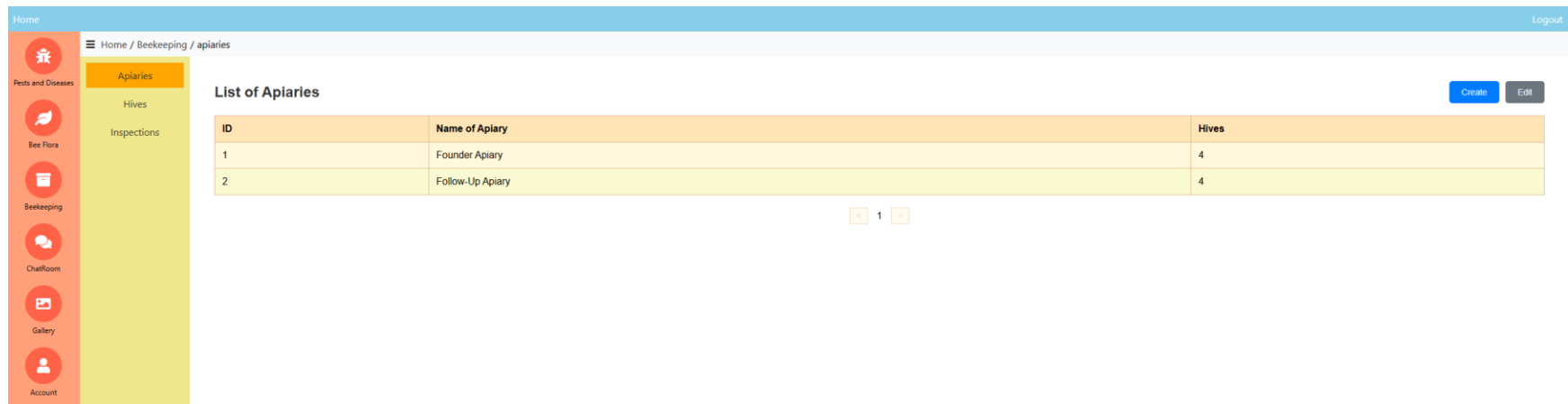
How to use the Apiaries Module

1. Click on the "Apiaries" button.

2. All of your Apiaries will be listed here.

Add New Apiary

1. To add a new Apiary, click on the "Create" button.

2. "Create New Apiary" form will open. Enter the details of your Apiary (Name of Apiary, Address, Property Contant Number & Name, Notes, Description, Hives) and then click "Create" to submit. The new Apiary will now be displayed in the List of Apiaries.

Name of apiary

Demo Apiary

Notes

This is a demo apiary

Description

This is for the user guide

Address

2 George St, Brisbane City QLD

Property contact number & name

Demoist Details

Hives

Demo 1	Demo 2
This is demo 1	This is demo 2

Demo C	
This is demo C	+

Map

Location Map

Images

Apiary

< 1 >

Cancel

Create

View Apiary Details

1. To view further details of an Apiary, click on the Apiary.

2. You can view all the details of the Apiary you have selected.

Hives

<div align="right">Edit</div>

ID	Name	Description
9	Demo 1	This is demo 1
10	Demo 2	This is demo 2
11	Demo C	This is demo C

< 1 >

Demo Apiary

Location: 2 George St, Brisbane City QLD 4000
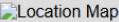
Beekeeper contact: Demoist Details

Number of Hives: 3

Notes: This is a demo apiary

Description: This is for the user guide

Images

Apiary

< 1 >

Map

Location Map

Close

Edit Apiary Details

1. To edit an Apiary, click on the "Edit" button.
2. Then click on the Apiary you want to Edit.

3. Change any fields you need then press "Update".
4. You can also press "Cancel" to go back
5. You can also remove an Apiary by pressing "Delete".

Edit Apiary

Name of apiary

Demo Apiary

Notes

This is a demo apiary

Description

This is for the user guide

Address

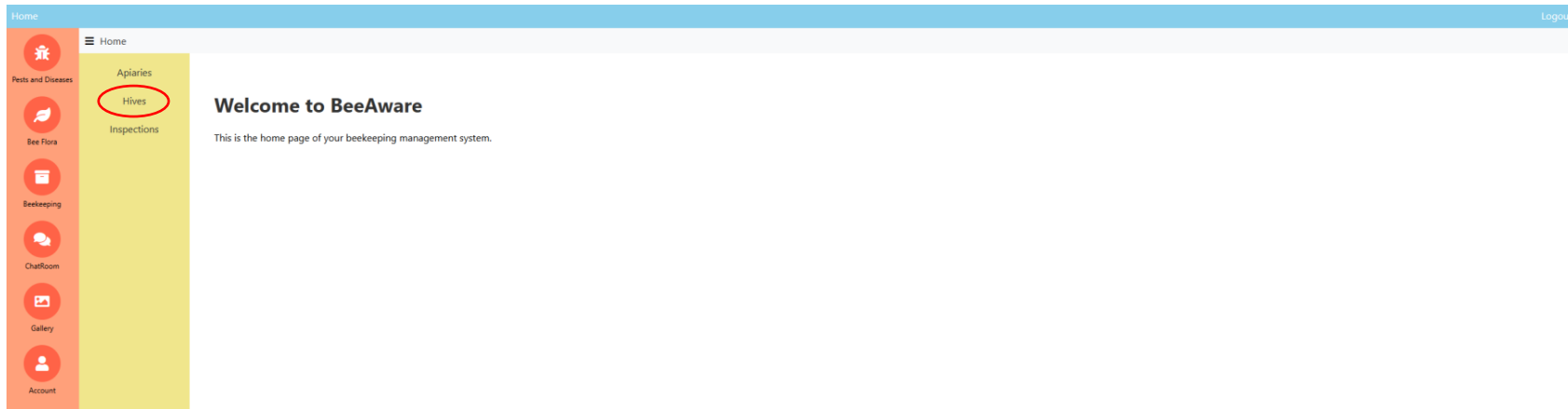2 George St, Brisbane City QLD

Property contact number & name

Demoist Details

Cancel

Update

Delete

Map

Location Map

Images

Apiary

< 1 >

How to use the Hives Module

1. Click on the "Hives" button.

2. All of your Hives will be listed here.
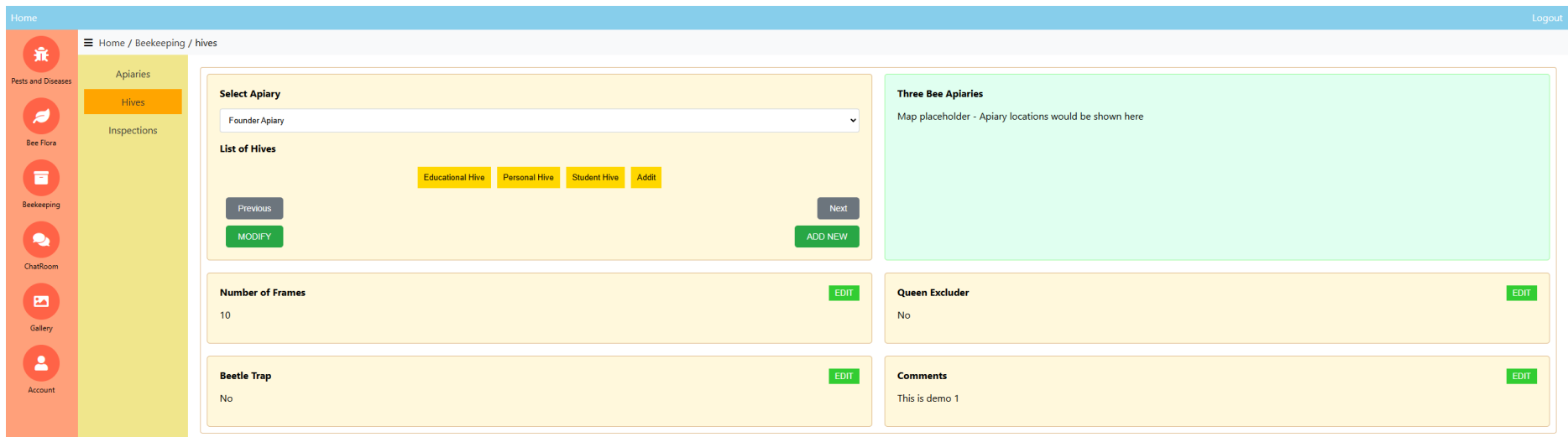
View Hive Details

1. You can select the dropdown menu to change Apiaries and the associated Hives.

2. Then select on any Hive name to view the details (this will update the Map, Number of Frames, Queen Excluder, Beetle Trap, and Comments).
3. Use the "Previous" and "Next" buttons if the list of Hives is not displaying your Hive (it will be in the next or previous page).

Edit Hive Details

There are two options for editing hives.

Option 1

1. Use the "Modify" button.

2. Change any fields you need then press "Submit".
3. You can also press "Cancel" to go back
4. You can also remove an Apiary by pressing "Delete".

MODIFY HIVE

Hive Number

Honey-Up

Frames

10

Queen Excluders   **Beetle Trap**

| Yes | No | | Yes | No |

Comment

Lets get lots of honey

DELETE

CANCEL   SUBMIT

Option 2

1. Users can use these "Edit" buttons to update 1 singular detail of their Hives.

2. This is possible for "Number of Frames", "Queen Excluder", "Beetle Trap" and "Comments."

Add New Hive

1. To add a new hive to their apiary, users click "Add New".

2. The user fills in the fields and presses "Submit" to add it or "Cancel" to go back.

How to use the Inspections Module

1. Click on the "Inspections" button.
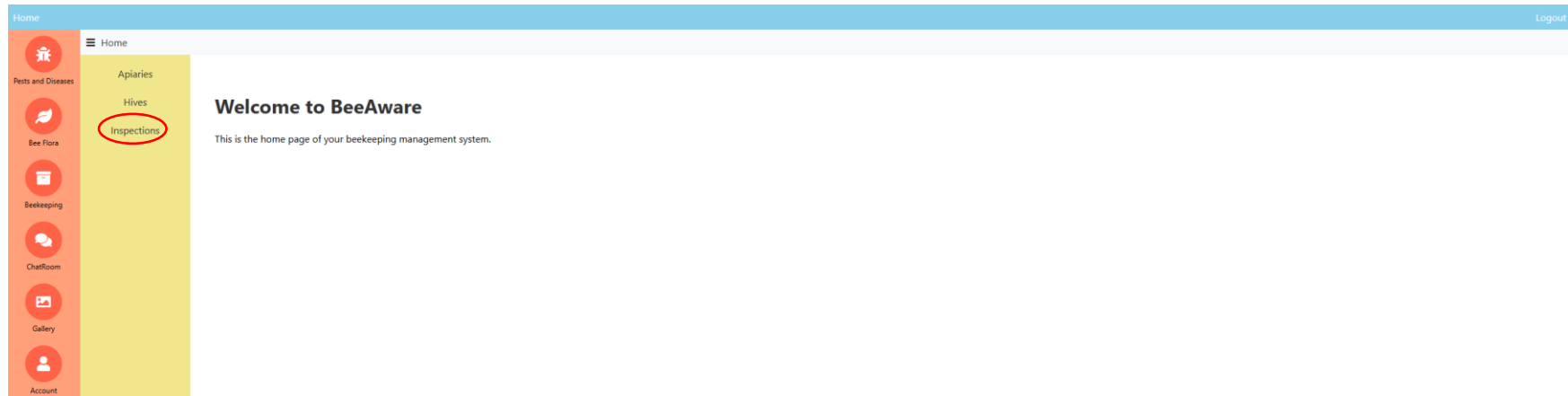
2. Your Inspection details will be listed here.
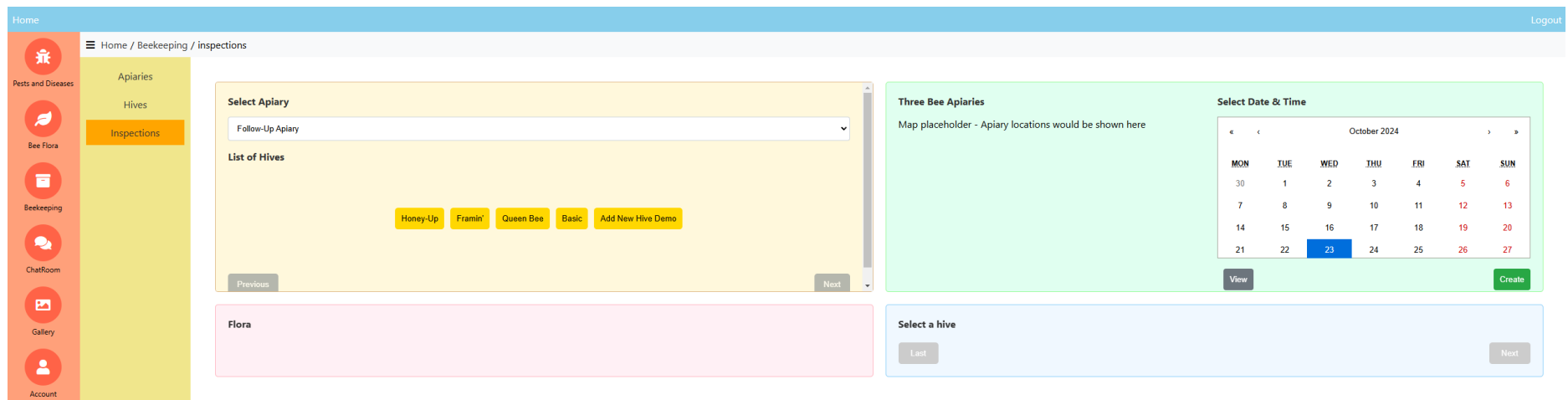
Add New Inspection

1. To add a new inspection, select a date from the calendar and click "Create".

2. This will open up the inspection form with fields to fill out for the inspection.
3. Upon completion of the inspection form, the user can press "Submit" if they are done.
4. You can also press "Cancel" to go back.

5. You can also press "Disease" to fill out another form regarding Diseases.

6. The Disease form is optional for beekeepers that have observed diseases. They can fill out the form then click "Submit".
7. The user can also go back to the inspection form by clicking "Inspection".
8. The user can also cancel the form by clicking "Cancel".

HIVE #Honey-Up DISEASES

Disease #1

Select disease observ ▾

Severity

Select severity ▾

Description

Enter a description of the disease

Add More

CANCEL   Inspection   SUBMIT

View Inspection Details

1. By selecting the relevant hive and date in the calendar, the Inspection and Disease summary will populate.

Honey-Up Inspection Summary

Inspection Date: 23/10/2024

Next Inspection: 30/10/2024

Brood: 2 Fair Frames

Honey: 2 Partial Frames

Eggs: 2 Excellent Frames

Empty: 0 Frames

Temperament: Calm

Comments: This hive is performing decently!

Honey-Up Diseases

Disease 1: American Foulbrood

Severity: High

Comment: Need to get rid of them ASAP!

Disease 2: Varroa Mites

Severity: Low

Comment: Although low severity, it's best to deal with it when possible before it progresses.

Last   Next

2. The "Last" and "Next" buttons can be used to filter through inspections.