

# T086 BeeAware Beekeeping Modules: User Guide

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# 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.

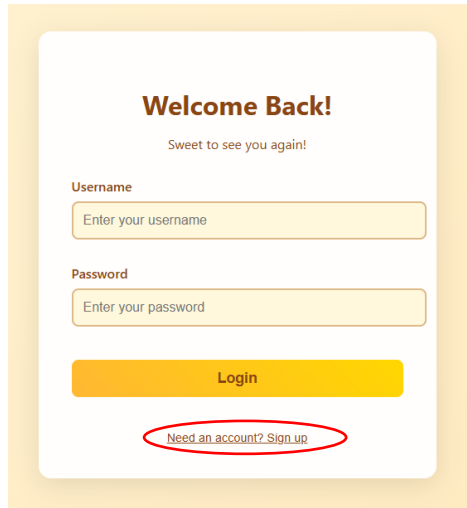
Lastly, the *User Registration/Login module* allows for different roles and permissions for users. At the current stage, Users that first visit BeeAware will need to register for an account. This includes a Username, Email, and Password. Then they can log into their account using their Username and Password.

## 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.



The login form is titled "Welcome Back!" with the subtitle "Sweet to see you again!". It features two input fields: "Username" with the placeholder "Enter your username" and "Password" with the placeholder "Enter your password". Below these fields is a yellow "Login" button. At the bottom, there is a link "Need an account? Sign up" which is circled in red.

**Welcome Back!**  
Sweet to see you again!

**Username**  
Enter your username

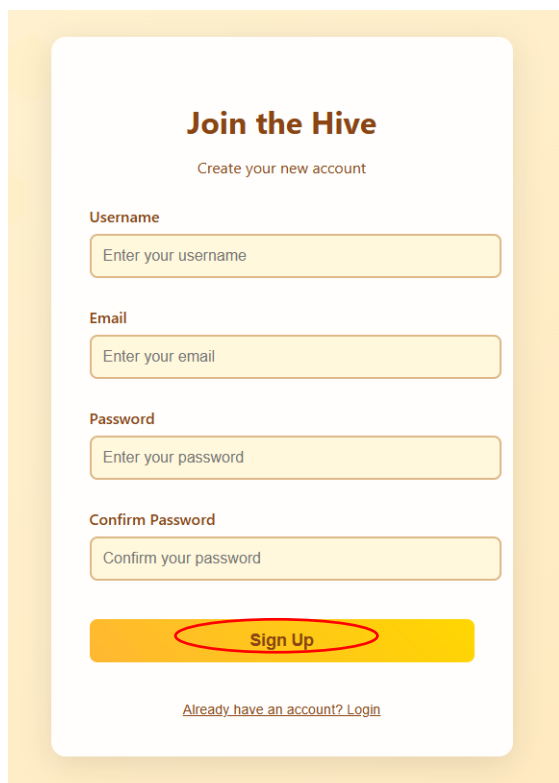
**Password**  
Enter your password

**Login**

[Need an account? Sign up](#)

## 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.



The registration form is titled "Join the Hive" with the subtitle "Create your new account". It features four input fields: "Username" with the placeholder "Enter your username", "Email" with the placeholder "Enter your email", "Password" with the placeholder "Enter your password", and "Confirm Password" with the placeholder "Confirm your password". Below these fields is a yellow "Sign Up" button, which is circled in red. At the bottom, there is a link "Already have an account? Login".

**Join the Hive**  
Create your new account

**Username**  
Enter your username

**Email**  
Enter your email

**Password**  
Enter your password

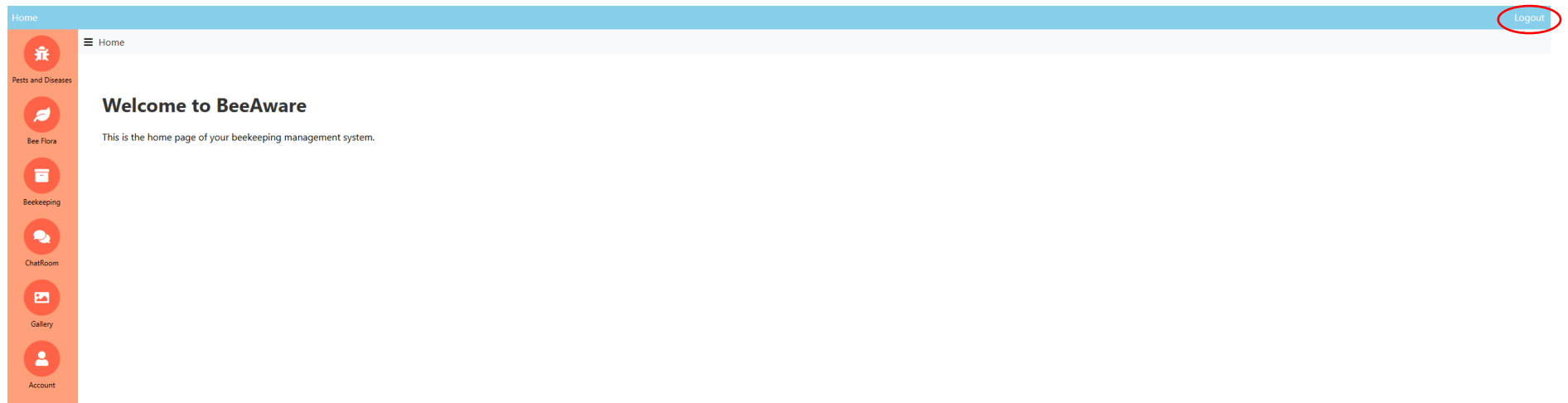
**Confirm Password**  
Confirm your password

**Sign Up**

[Already have an account? Login](#)

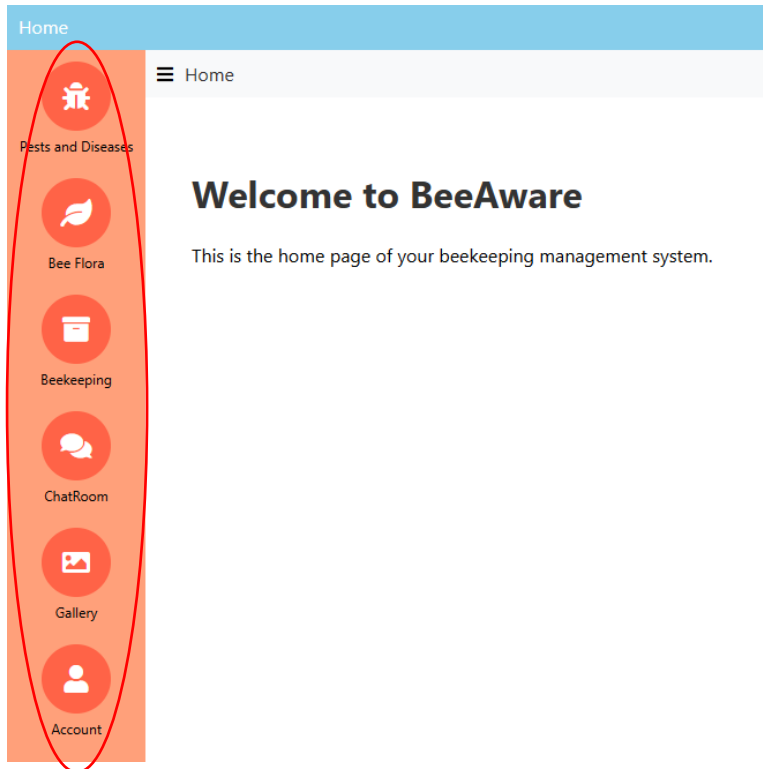
# User Logout

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

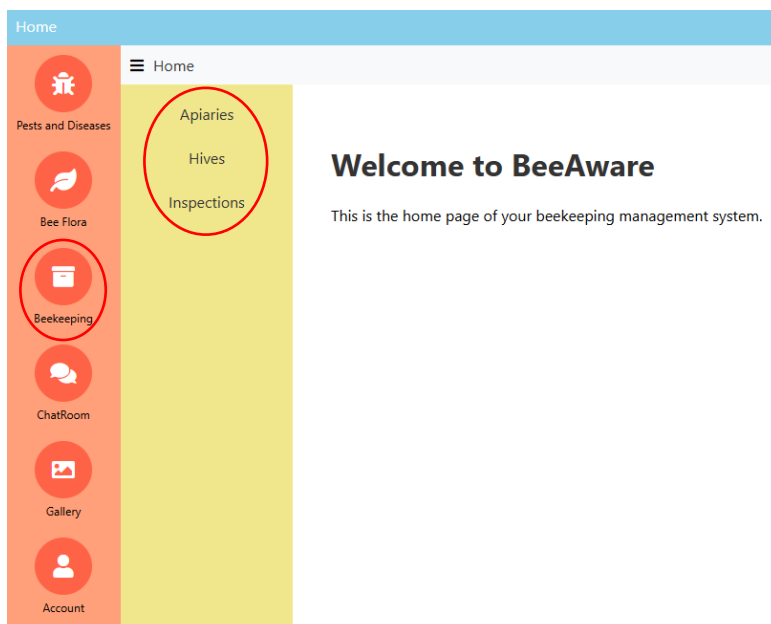


# Navigation Menus

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”.

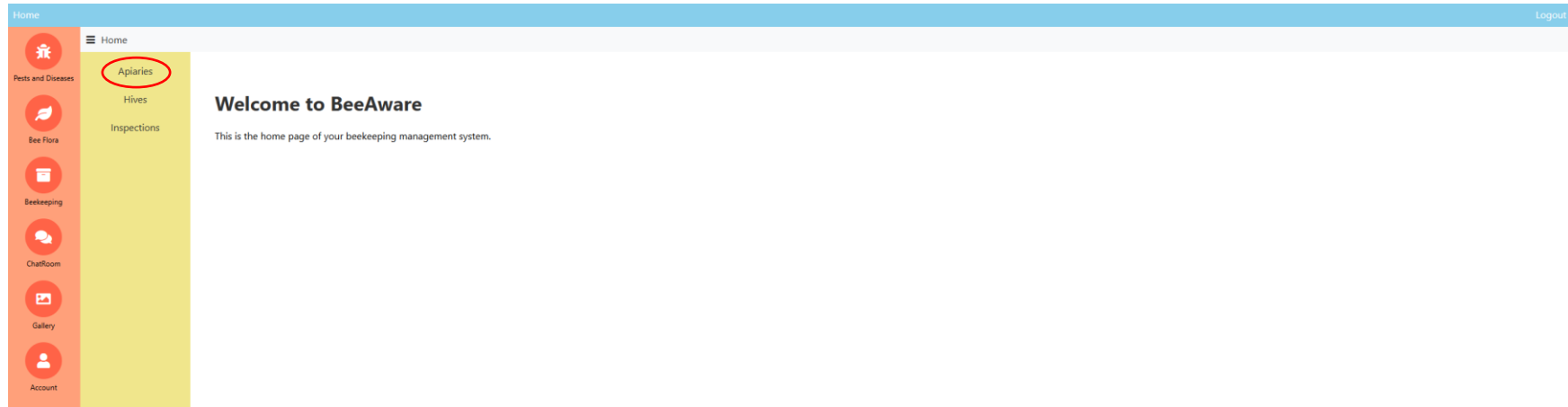


Our team, T086, has developed the Beekeeping modules. Upon clicking the “Beekeeping” button, a *second navigation menu* will open with three menu items: “Apiaries”, “Hives”, and “Inspections”.

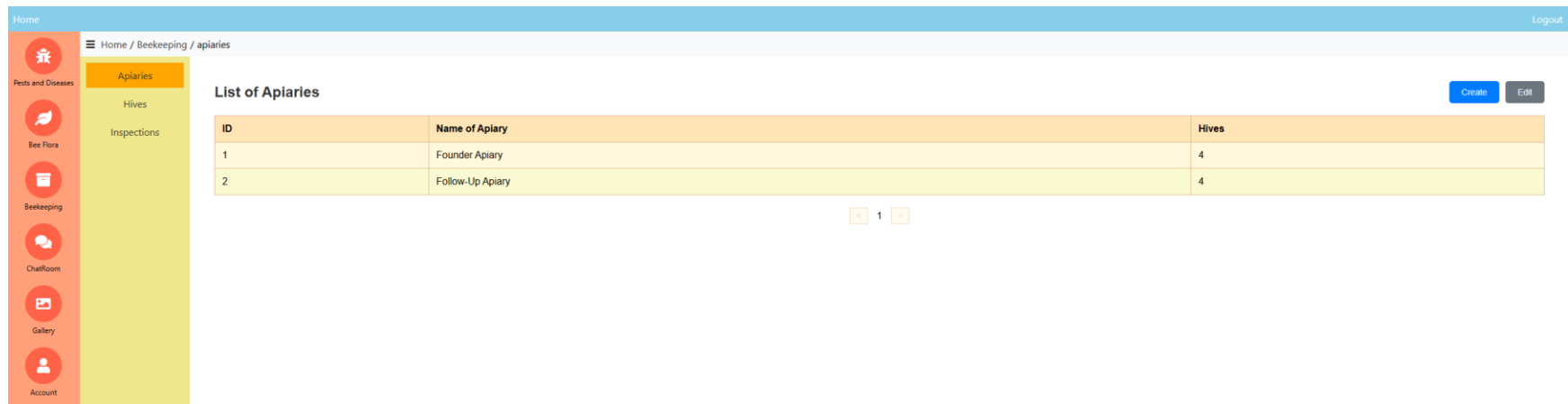


# How to use the Apiaries Module

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.

Home

Logout

Home / Beekeeping / apiaries

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

List of Apiaries

Create

Edit

ID	Name of Apiary	Hives
1	Founder Apiary	4
2	Follow-Up Apiary	4

<

1

>

2. “Create New Apiary” form will open. Enter the details of your Apiary (Name of Apiary, Address, Property Contact 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.

Home

Logout

Home / Beekeeping / apiaries

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

List of Apiaries

CreateEdit

ID	Name of Apiary	Hives
1	Founder Apiary	4
2	Follow-Up Apiary	4
3	Demo Apiary	3

<

1

>

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

**Hives**

Edit

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

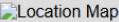
Description: This is for the user guide

**Images**



< 1 >

**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.

Home

Logout

Home / Beekeeping / apiaries

Apiaries

Hives

Inspections

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

List of Apiaries

Create Edit

ID	Name of Apiary	Hives
1	Founder Apiary	4
2	Follow-Up Apiary	4
3	Demo Apiary	3

< 1 >

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

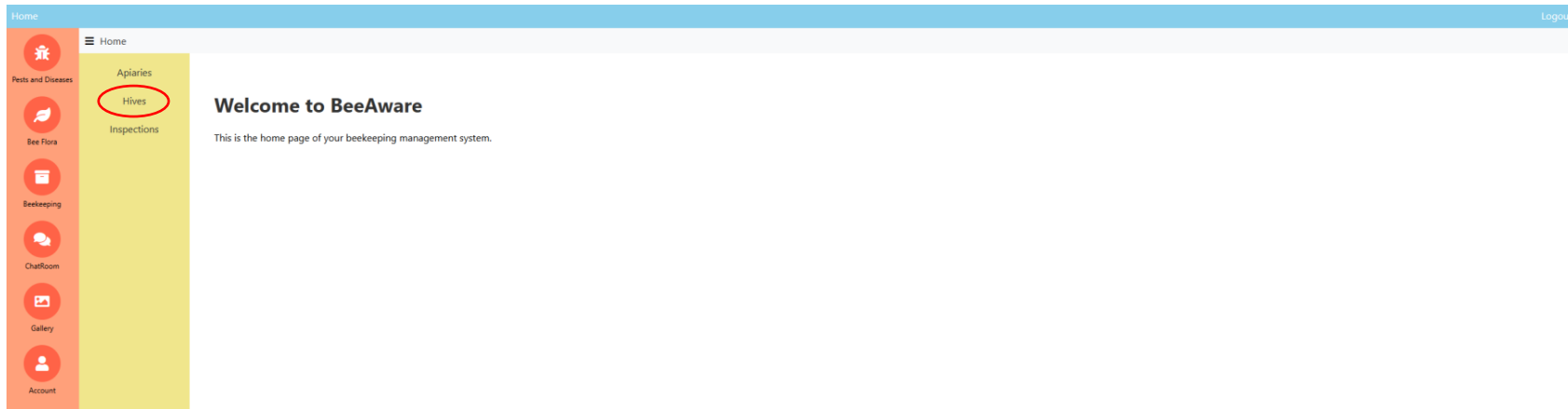
### Images

 Apiary

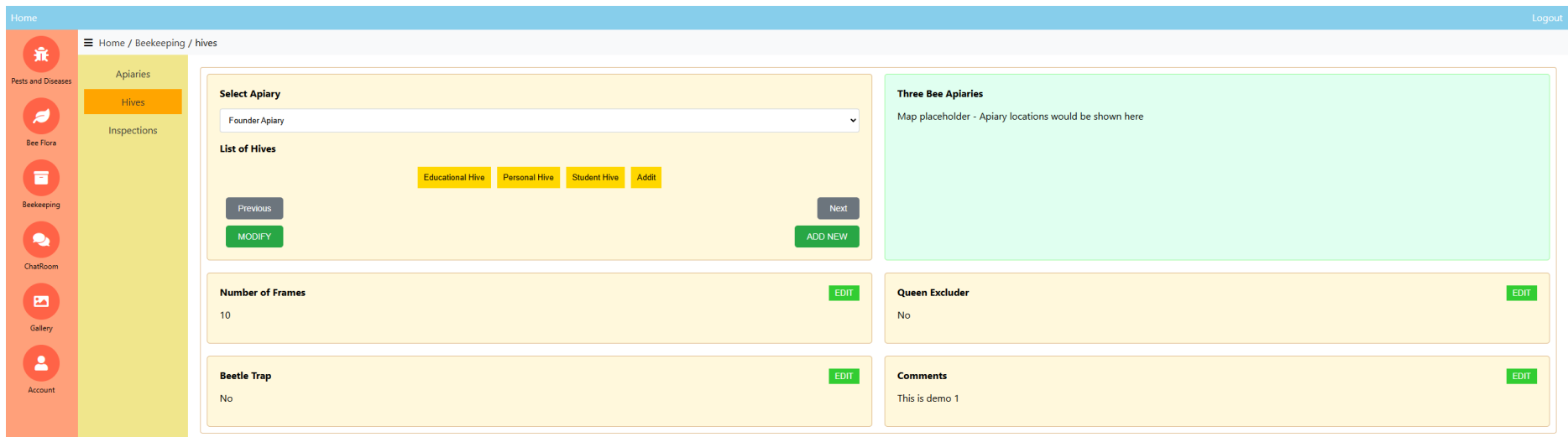
< 1 >

# 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.

Home

Logout

Home / Beekeeping / hives

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

Select Apiary

Founder Apiary

Select an apiary

Founder Apiary

Follow-Up Apiary

Demo Apiary

Previous

Next

MODIFY

ADD NEW

Number of Frames

5

EDIT

Beetle Trap

Yes

EDIT

Three Bee Apiaries

Map placeholder - Apiary locations would be shown here

Queen Excluder

Yes

EDIT

Comments

Teaching Hive

EDIT

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).

Home

Logout

Home / Beekeeping / hives

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

Select Apiary

Follow-Up Apiary

List of Hives

Honey-Up

Framin'

Queen Bee

Basic

Previous

Next

MODIFY

ADD NEW

Number of Frames

10

EDIT

Beetle Trap

No

EDIT

Three Bee Apiaries

Map placeholder - Apiary locations would be shown here

Queen Excluder

No

EDIT

Comments

Lets get lots of honey

EDIT

## Edit Hive Details

There are two options for editing hives.

### Option 1

1. Use the “Modify” button.

Home

Logout

Home / Beekeeping / hives

Pests and Diseases

Bee Flora

Beekeeping

Chatroom

Gallery

Account

Apiaries

Hives

Inspections

Select Apiary

Follow-Up Apiary

List of Hives

Honey-Up

Framin'

Queen Bee

Basic

Previous

Next

MODIFY

ADD NEW

Number of Frames

10

EDIT

Beetle Trap

No

EDIT

Three Bee Apiaries

Map placeholder - Apiary locations would be shown here

Queen Excluder

No

EDIT

Comments

Lets get lots of honey

EDIT



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**

Yes

No

**Beetle Trap**

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.

Home

Logout

Home / Beekeeping / hives

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

Select Apiary

Follow-Up Apiary

List of Hives

Honey-Up

Framin'

Queen Bee

Basic

Previous

Next

MODIFY

ADD NEW

Three Bee Apiaries

Map placeholder - Apiary locations would be shown here

Number of Frames

10

EDIT

Queen Excluder

No

EDIT

Beetle Trap

No

EDIT

Comments

Lets get lots of honey

EDIT

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

Home

Logout

Home / Beekeeping / hives

Tests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

Select Apiary

Follow-Up Apiary

List of Hives

Honey-Up

Framlin'

Queen Bee

Basic

Previous

Next

MODIFY

ADD NEW

Number of Frames

10

5

6

7

8

9

10

Save

Beetle Trap

EDIT

Three Bee Apiaries

Map placeholder - Apiary locations would be shown here

Queen Excluder

No

Comments

Lets get lots of honey

EDIT

## Add New Hive

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

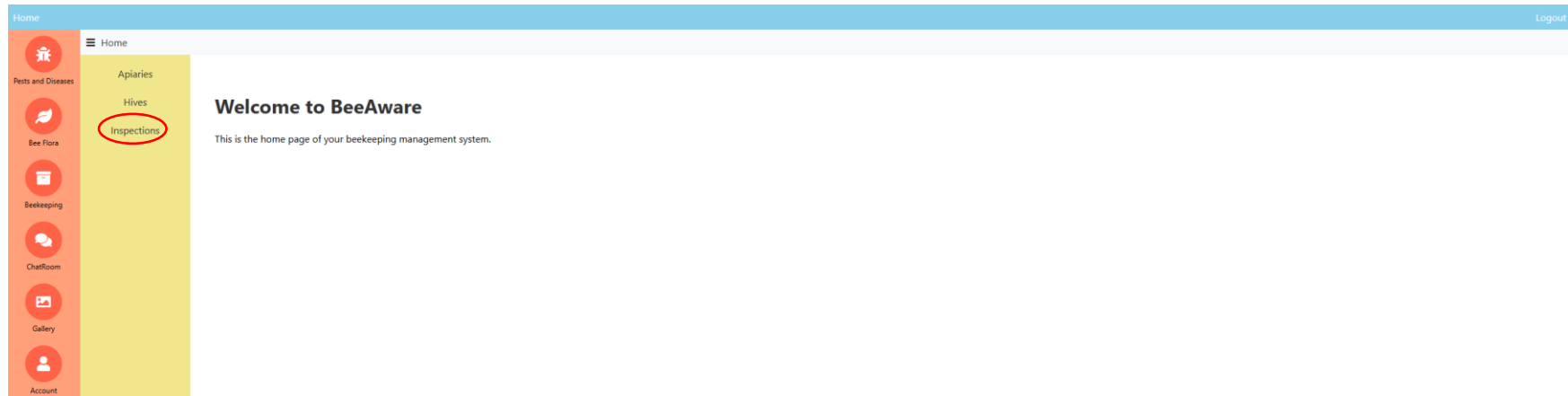
The screenshot shows a web application interface for managing beehives. On the left is a sidebar with navigation icons for Pets and Diseases, Bee Flora, Beekeeping, ChatRoom, Gallery, and Account. The main content area has a header 'Home / Beekeeping / hives' and a 'Logout' link. The 'Hives' section is active. It features a 'Select Apiary' dropdown menu with 'Follow-Up Apiary' selected. Below this is a 'List of Hives' section with buttons for 'Honey-Up', 'Framin'', 'Queen Bee', and 'Basic'. There are 'Previous', 'Next', 'MODIFY', and 'ADD NEW' buttons. The 'ADD NEW' button is circled in red. To the right of the 'List of Hives' is a 'Three Bee Apiaries' section with a map placeholder. Below the 'List of Hives' are three sections: 'Number of Frames' (10), 'Queen Excluder' (No), and 'Beetle Trap' (No), each with an 'EDIT' button. To the right of these are two more sections: 'Queen Excluder' (No) and 'Comments' (Lets get lots of honey), each with an 'EDIT' button.

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

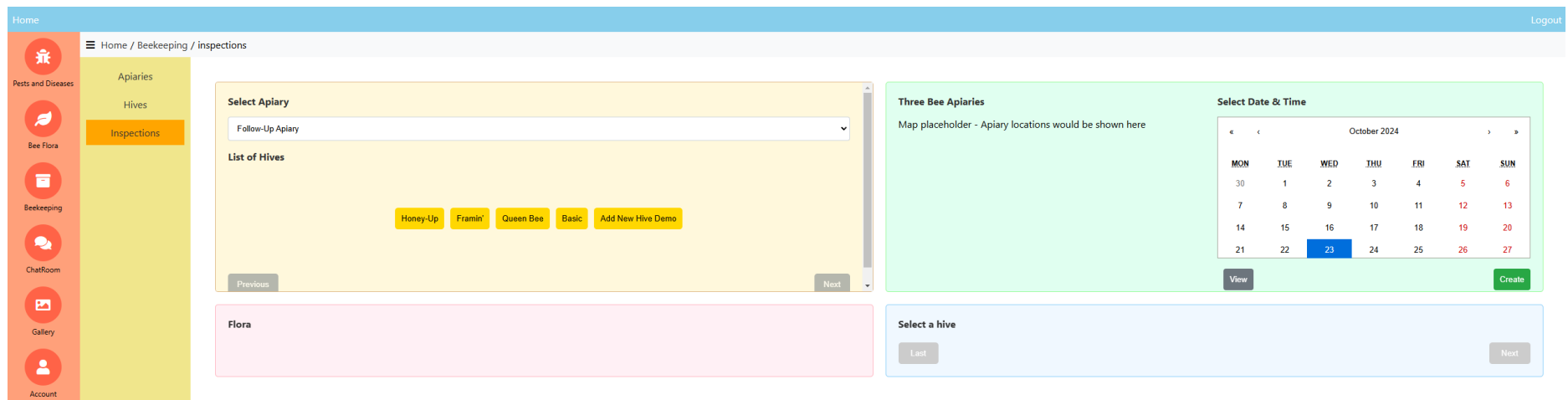
The screenshot shows a 'HIVE CONFIGURATION' form. It has a title 'Your Hive' and a text input field with 'Add New Hive Demo'. Below this is a 'Frames' section with a dropdown menu showing '6'. There are two sections for 'Queen Excluders' and 'Beetle Trap', each with 'Yes' and 'No' radio buttons. The 'Beetle Trap' section has 'Yes' selected. Below these is a 'Comment' section with a text input field containing 'This is how to add a new hive'. At the bottom are two buttons: 'CANCEL' and 'SUBMIT'. Both buttons are circled in red.

# 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”.

Home

Logout

Home / Beekeeping / inspections

Pests and Diseases

Bee Flora

Beekeeping

ChatRoom

Gallery

Account

Apiaries

Hives

Inspections

Select Apiary

Follow-Up Apiary

List of Hives

Honey-Up

Framin'

Queen Bee

Basic

Add New Hive Demo

Previous

Next

Flora

Three Bee Apiaries

Map placeholder - Apiary locations would be shown here

Select Date & Time

October 2024

MON	TUE	WED	THU	FRI	SAT	SUN
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27

View

Create

Select a hive

Last

Next

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.

### HIVE #Honey-Up INSPECTION

<b>Brood Frames</b> Select brood frame quantity ▼	<b>Brood Pattern</b> Select brood pattern ▼
<b>Honey Frames</b> Select honey frame quantity ▼	<b>Honey Pattern</b> Select honey pattern ▼
<b>Egg Frames</b> Select egg frame quantity ▼	<b>Egg Pattern</b> Select egg pattern ▼
<b>Empty Frames</b> Select empty frame quantity ▼	<b>Temperament</b> Select temperament ▼
<b>Comment</b> Enter a comment about your hive	<div>CANCEL Disease SUBMIT</div>

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

### HIVE #Honey-Up INSPECTION

<b>Brood Frames</b> 2 ▼	<b>Brood Pattern</b> Fair ▼
<b>Honey Frames</b> 2 ▼	<b>Honey Pattern</b> Partial ▼
<b>Egg Frames</b> 2 ▼	<b>Egg Pattern</b> Excellent ▼
<b>Empty Frames</b> 0 ▼	<b>Temperament</b> Calm ▼
<b>Comment</b> This hive is performing decently!	<div>CANCEL Disease SUBMIT</div>

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  

<IMAGE>

  
Comment: Need to get rid of them ASAP!

Disease 2: Varroa Mites  
Severity: Low  

<IMAGE>

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

LastNext

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