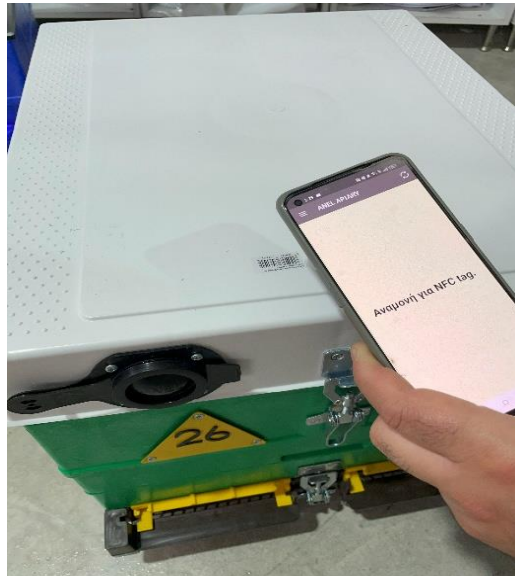


USER MANUAL

ANEL Digital Beekeeping Diary

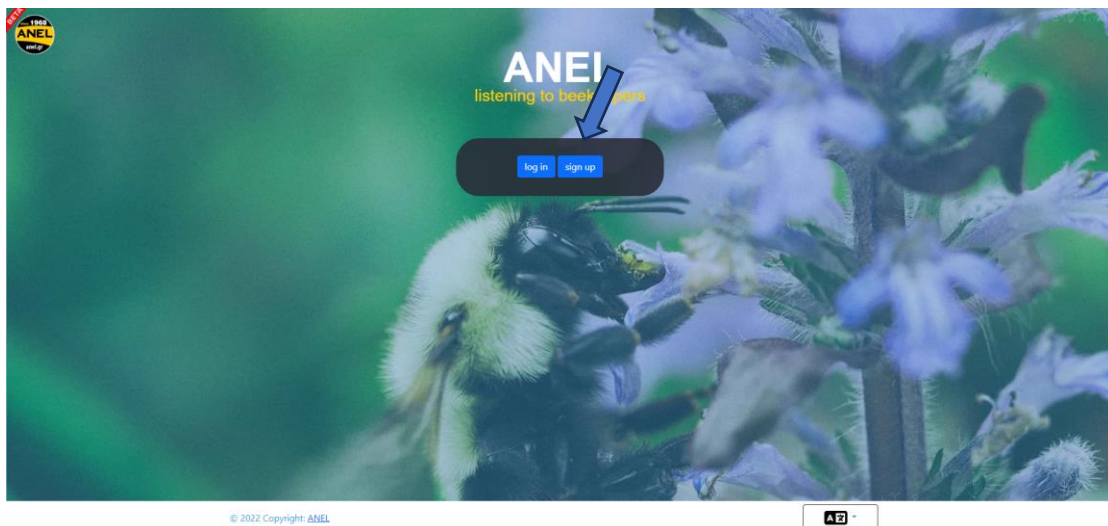
The ANEL BeeHive ID is an electronic identity with a unique number embedded in ANEL hive covers, but you can also purchase them separately.



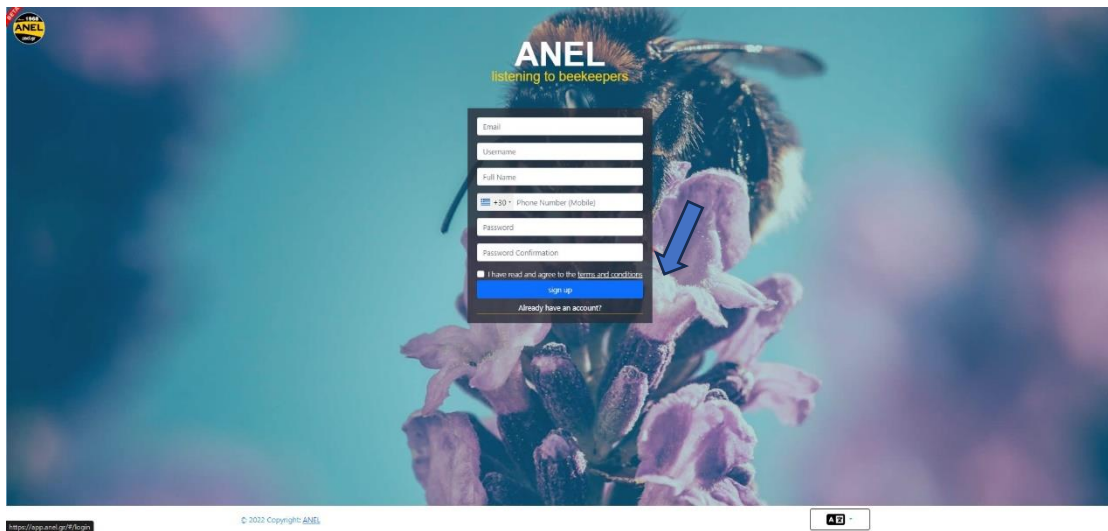
By pairing the ANEL BeeHive ID with the unique number of a hive, during our inspections at the apiary, we can conduct recordings. These recordings are then stored in a specific folder created on the ANEL server.

➤ Creating an account on the WEBSITE

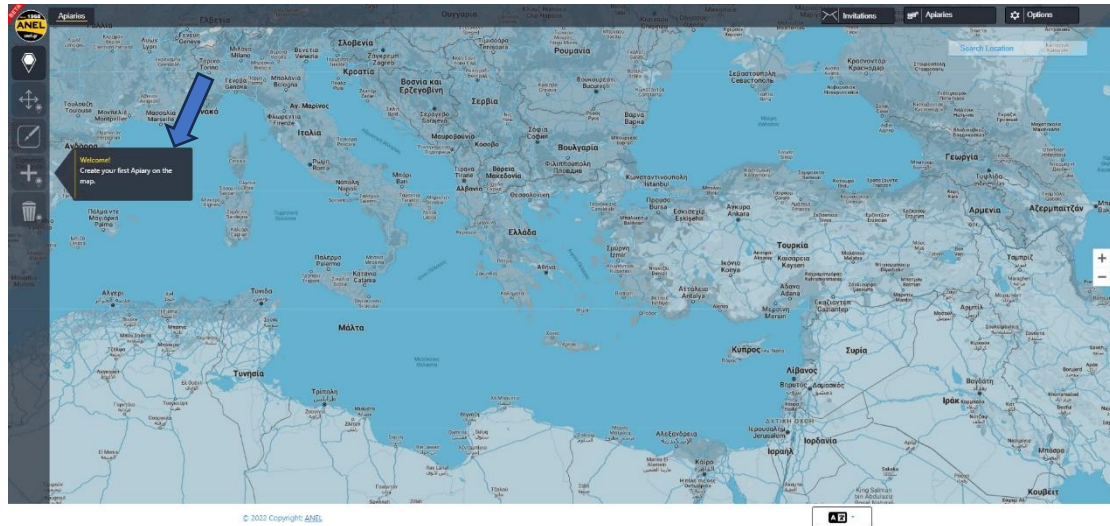
1. Log in to the website <http://app.anel.gr/>
2. Or click on the registration button to create a new account.



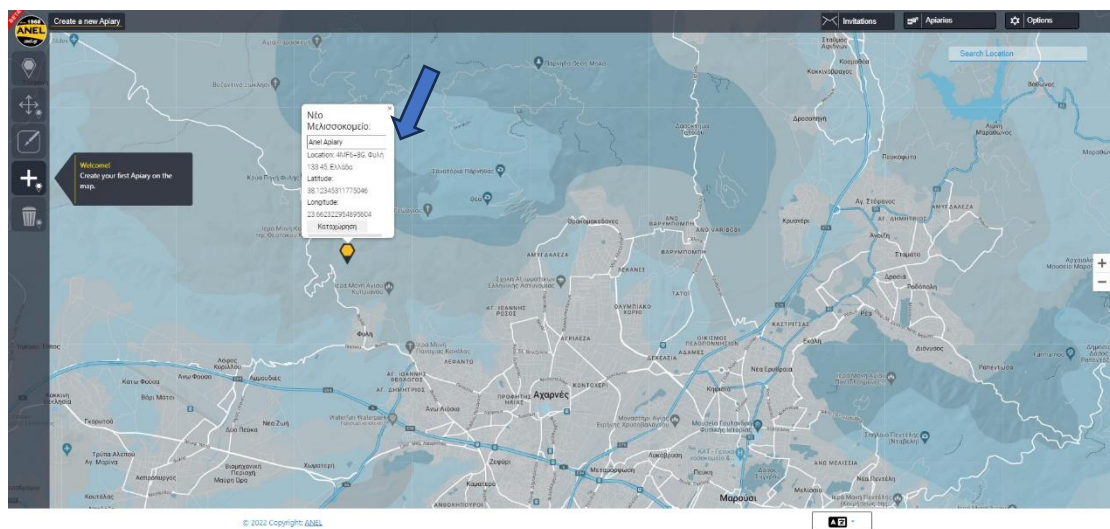
3. Fill in your details for logging into the application.



4. Create the first apiary on the map (or you can also create it from the mobile application).



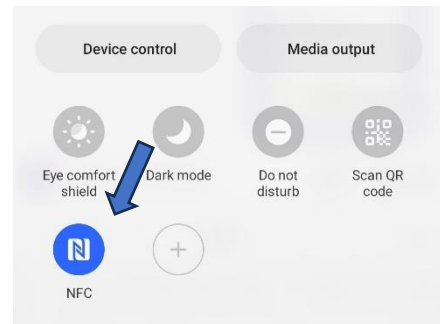
5. And fill in the name of the new apiary.



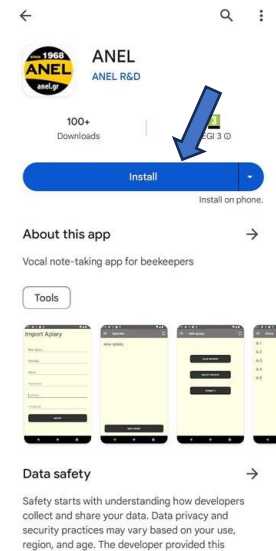
➤ ANDROID

Important note for Android devices.

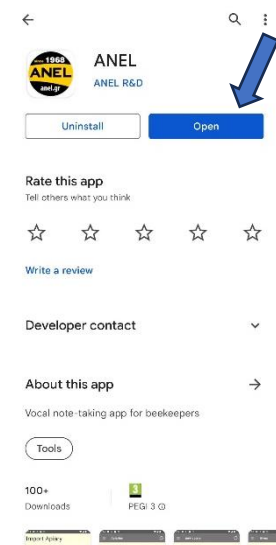
1. Check if NFC is enabled on your Android device.



2. Download the application from the Play Store – Install the application.

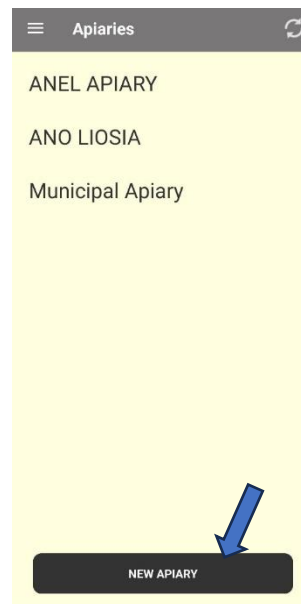


3. Open the application.



4. Import an Apiary.

- a) Press **“IMPORT APIARY”**
(name, location, etc.)
Example: ANEL Apiary.




- b) Enter the details of your apiary.



The screenshot shows a form titled "Import Apiary" with a light yellow background. It contains seven input fields, each with a label and a horizontal line for text entry: "Name", "Location", "Municipality", "Prefecture", "Latitude", and "Longitude". At the bottom of the form is a dark rectangular button with the text "IMPORT" in white.

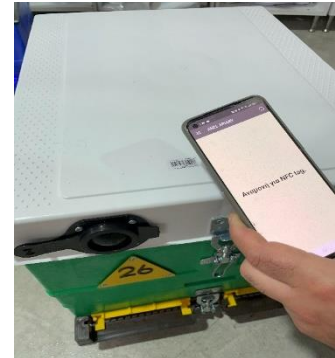
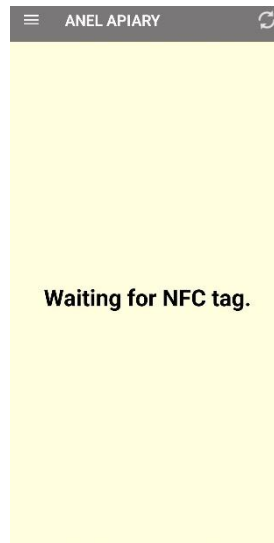
- c) Press **“IMPORT APIARY”**.



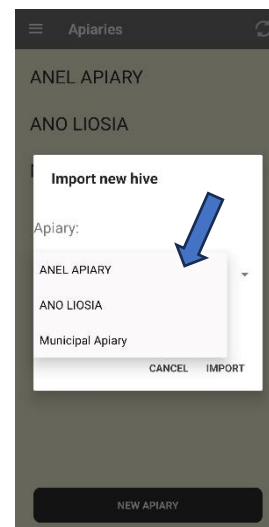
The screenshot shows the same "Import Apiary" form as in the previous image, but with example data entered into the input fields: "ANEL APIARY" in the Name field, "Ano Liosia" in the Location field, "Municipality of Fyli" in the Municipality field, "Attica" in the Prefecture field, and blank fields for Latitude and Longitude. At the bottom, the "IMPORT" button is highlighted with a blue arrow pointing to it from the right.

5. Add “ANEL BEE ID TAG” to the application.

- a) Place the “ANEL BEE ID TAG” on the back of the mobile device to be scanned, or scan the ANEL hive cover (below the letters ANEL).



- b) Select the apiary.



- c) Enter the hive number.



- d) Press “IMPORT”.

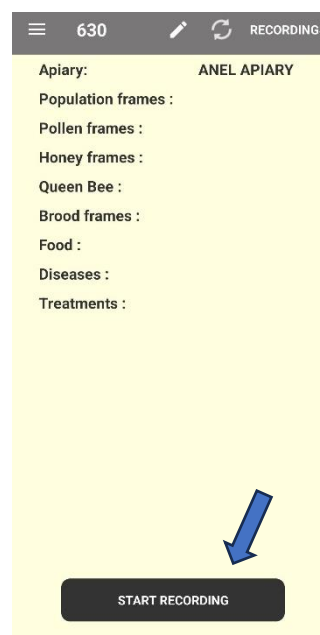
6. **Enter information for your hive.**

- a) Rescan the “**ANEL BEEID TAG**” that you have already imported, or scan the ANEL hive cover (below the letters ANEL).



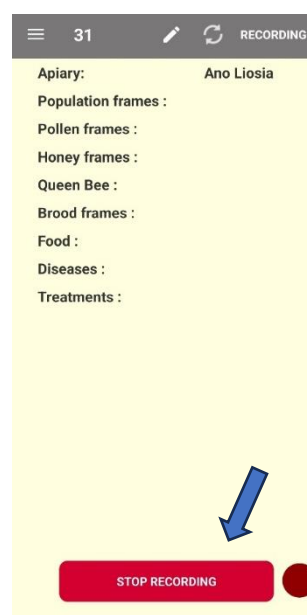
- b) View on the screen the list of data you have entered from the previous inspection.

- c) Press “**START RECORDING**”.



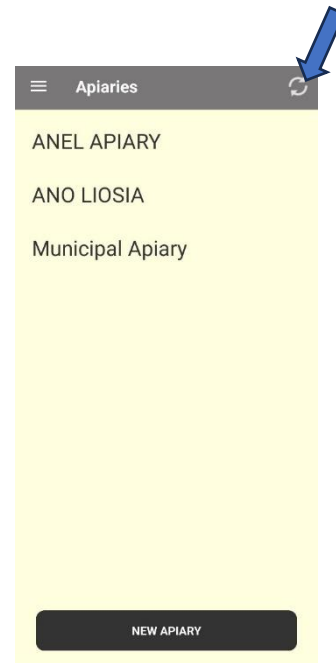
- d) Record the necessary information, and:
- Press “**STOP RECORDING**”.
 - Alternatively, if desired, you can enter information for other hives in the same apiary by scanning the “**ANEL BEEID TAG**” of the respective hive.

- e) Finally, when finished with the recordings, press “**STOP RECORDING**”.



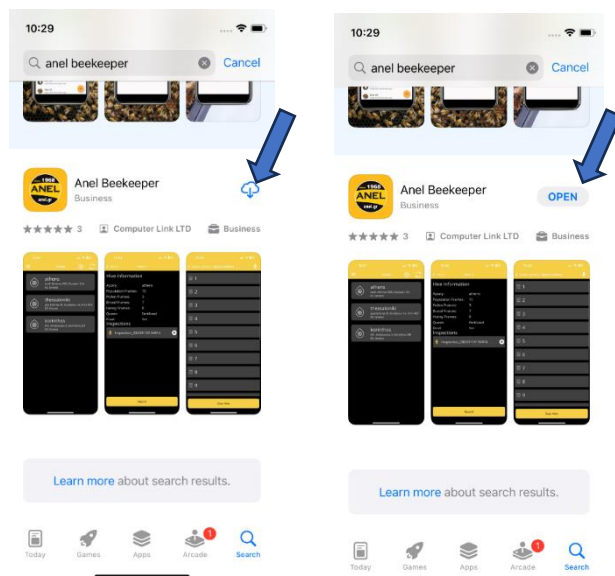
7. Information Synchronization.

- a) Go to the home screen.
- b) Press the synchronization button at the top right.



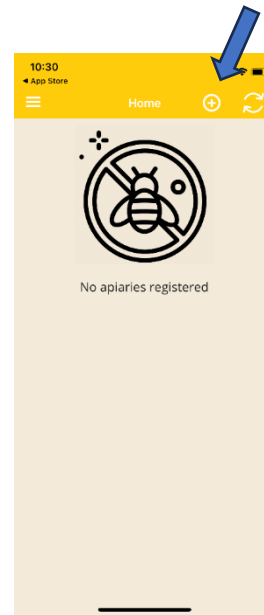
➤ IOS

1. Download the application.
2. Open the application from the App Store – Install the application.



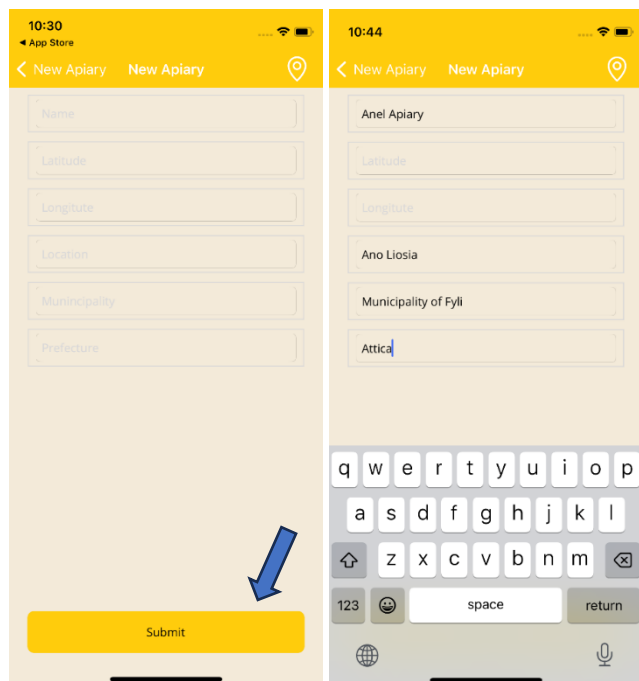
3. Import new Apiary.

a) Tap the “+” icon at the top right.



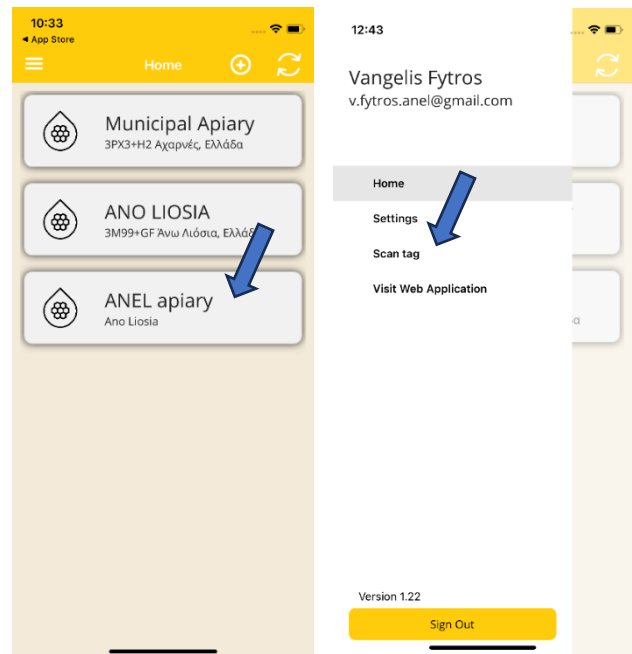
b) Enter the details of your apiary (name, location, etc.), for example, ANEL Apiary.

c) Press “Submit”.

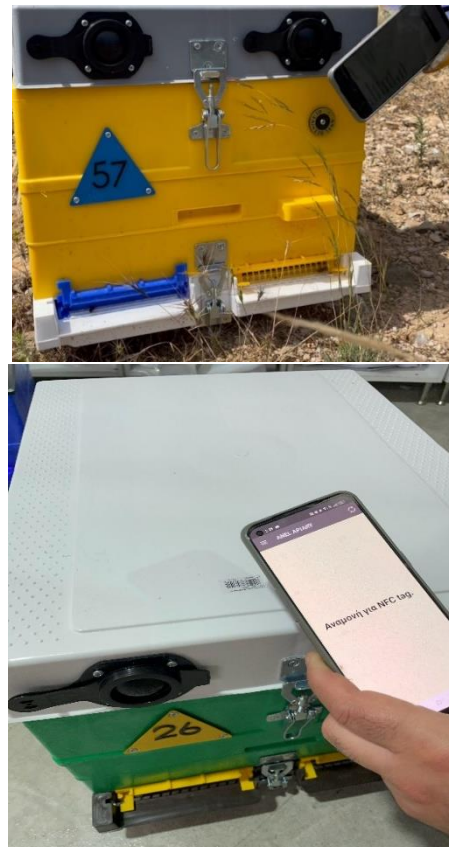


4. **Add “ANEL BEEID TAG” to the application.**

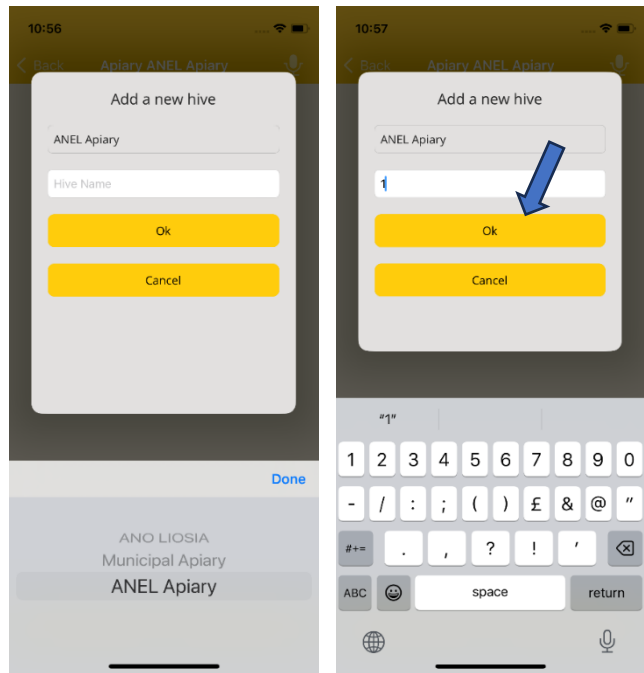
- a) Tap on the apiary you created in step 3.
- b) Press **“Scan Tag”**.



- c) Place the **“ANEL BEEID TAG”** on the back of the mobile device to be scanned, or scan the ANEL hive cover (below the letters ANEL).

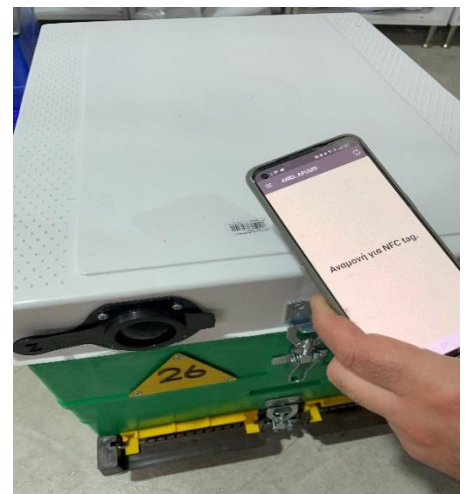
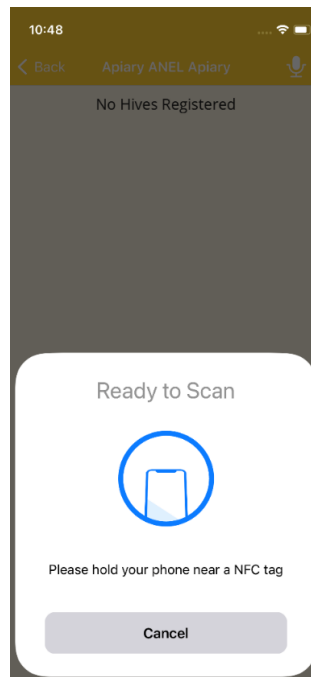


- d) Select the apiary.
- e) Enter the new hive number and press "OK".

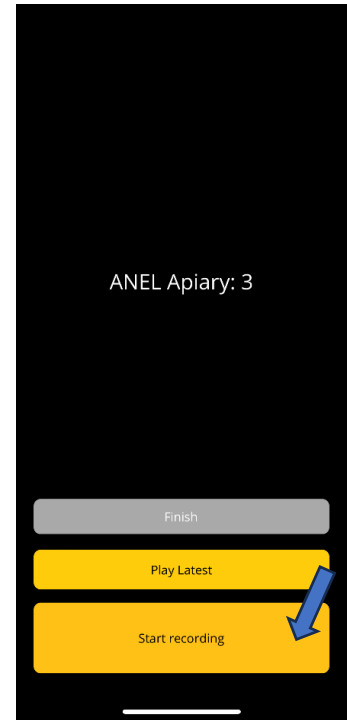
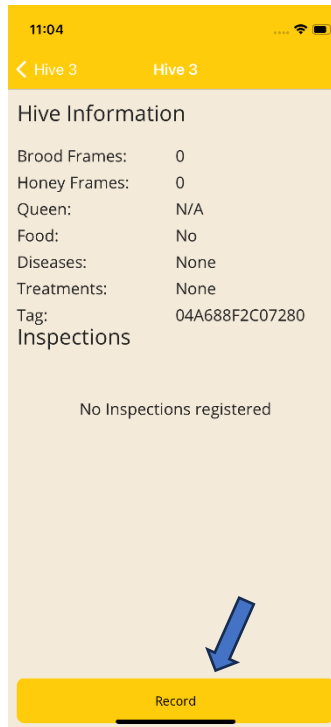


5. Enter information for your hive.

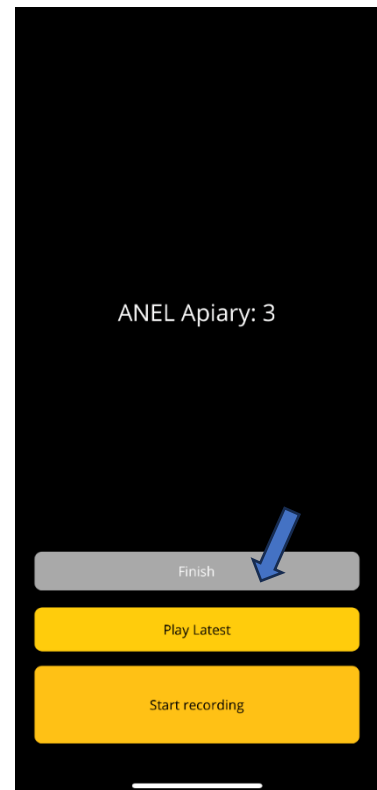
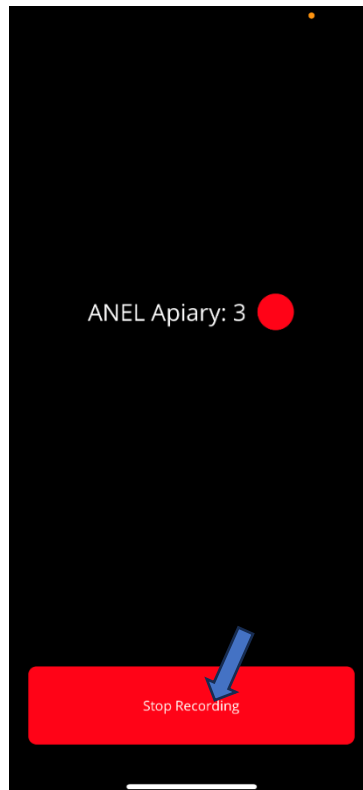
- a) After entering my hive, I can now input information.
- b) Rescan the "ANEL BEEID TAG" that you have already imported, or scan the ANEL hive cover (below the letters ANEL).



- c) View on the screen the list of data you have entered from the previous inspection.
- d) Press **“RECORD”**.
- e) Press **“Start Recording”**.

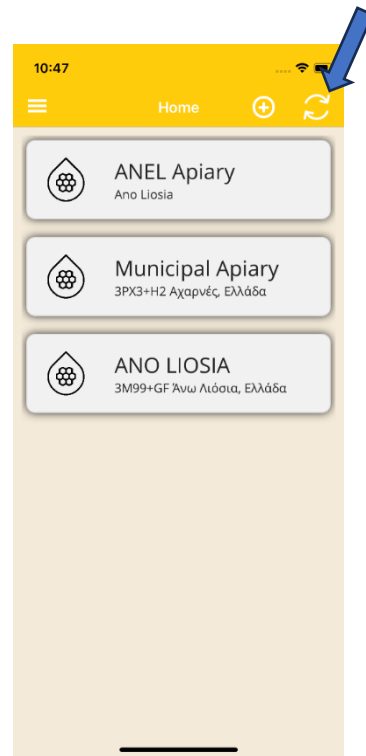


- f) Record the necessary information, then press **“STOP RECORDING”** and finally **“Finish”**.



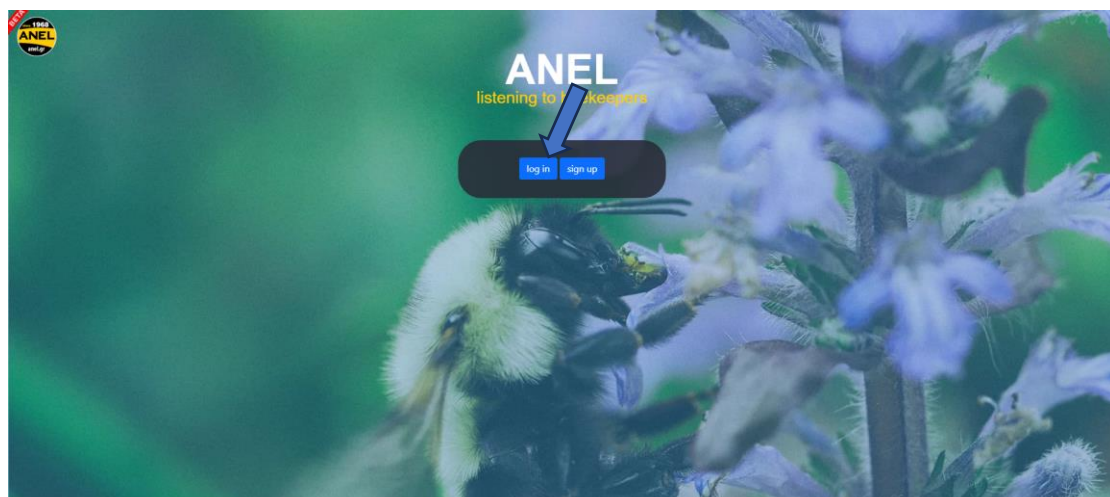
6. Information Synchronization.

- a) Go to the home screen.
- b) Press the synchronization button at the top right.

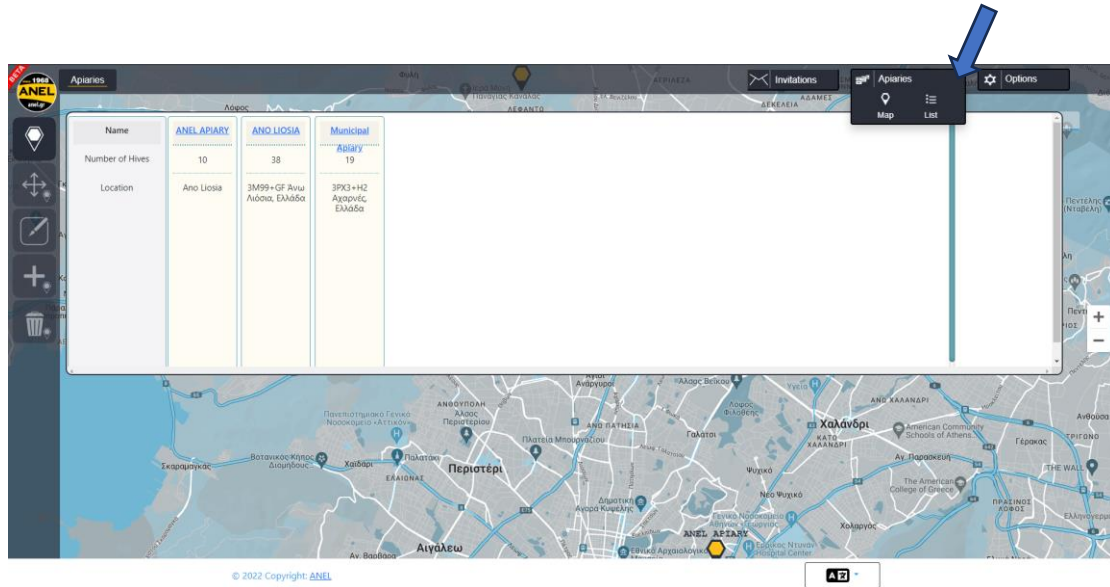


➤ WEBSITE

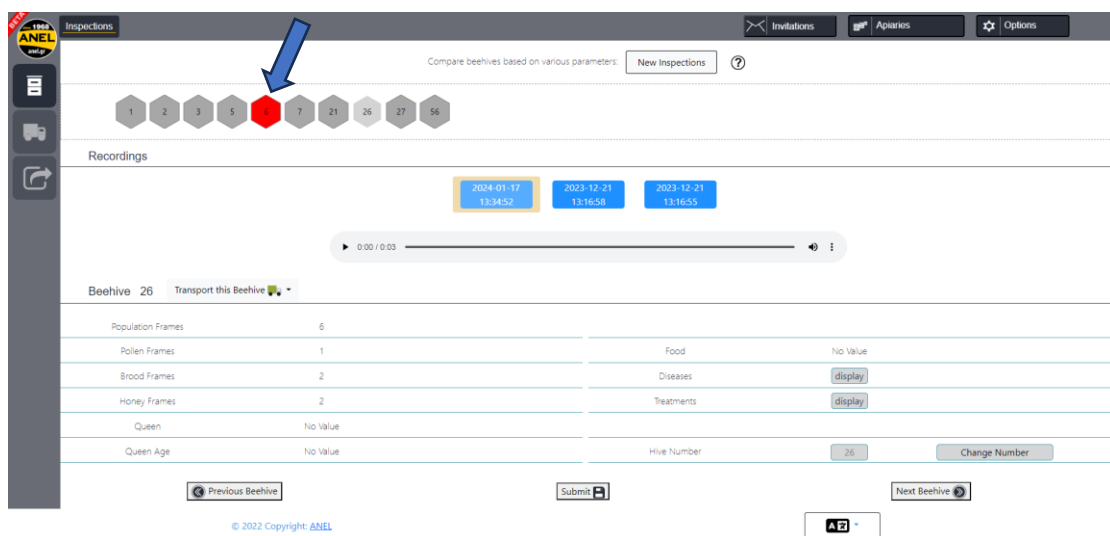
1. Log in to <http://app.anel.gr/> .
2. Since registration has been completed, you don't need to fill in your details for logging into the application. Just click **“Login”**.



3. Choose – Apiaries
4. Choose - Apiary List
5. Choose - Name of the apiary where you want to input your data.



6. The red marker No. 6 indicates that there is a new recording. I select it to listen to it.



- After selecting the red marker No. 6, press the “▶” button to listen to it. While listening, fill in the information in the fields below.

Compare beehives based on various parameters: ?

Recordings

▶ 0:00 / 0:02

Beehive 6

Population Frames	6	<input type="text"/>	Food	yes	<input type="button" value="select"/>
Pollen Frames	1	<input type="text"/>	Diseases	<input type="button" value="display"/>	<input type="button" value="select"/>
Brood Frames	2	<input type="text"/>	Treatments	<input type="button" value="display"/>	<input type="button" value="select"/>
Honey Frames	2	<input type="text"/>	Queen	Fertilized	<input type="button" value="select"/>
Queen	Fertilized	<input type="button" value="select"/>	Queen Age	2023 red	<input type="button" value="select"/>
Queen Age	2023 red	<input type="button" value="select"/>	Hive Number	6	<input type="button" value="Change Number"/>

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- To input data, select the relevant fields and enter the new information heard from the recording.

Compare beehives based on various parameters: ?

Recordings

▶ 0:00 / 0:03

Beehive 26

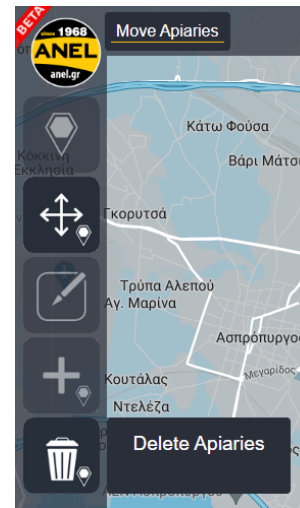
Population Frames	No Value	<input type="text" value="6"/>	Food	No Value	<input type="button" value="select"/>
Pollen Frames	No Value	<input type="text" value="1"/>	Diseases	<input type="button" value="display"/>	<input type="button" value="select"/>
Brood Frames	No Value	<input type="text" value="2"/>	Treatments	<input type="button" value="display"/>	<input type="button" value="select"/>
Honey Frames	No Value	<input type="text" value="2"/>	Queen	No Value	<input type="button" value="select"/>
Queen	No Value	<input type="button" value="select"/>	Queen Age	No Value	<input type="button" value="select"/>
Queen Age	No Value	<input type="button" value="select"/>	Hive Number	26	<input type="button" value="Change Number"/>

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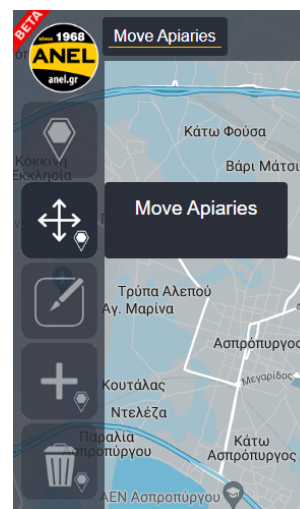
- To save the entered data, press the "Submit" option.
- Follow the same process for the remaining hives for which you want to input new data.

11. Other functionalities

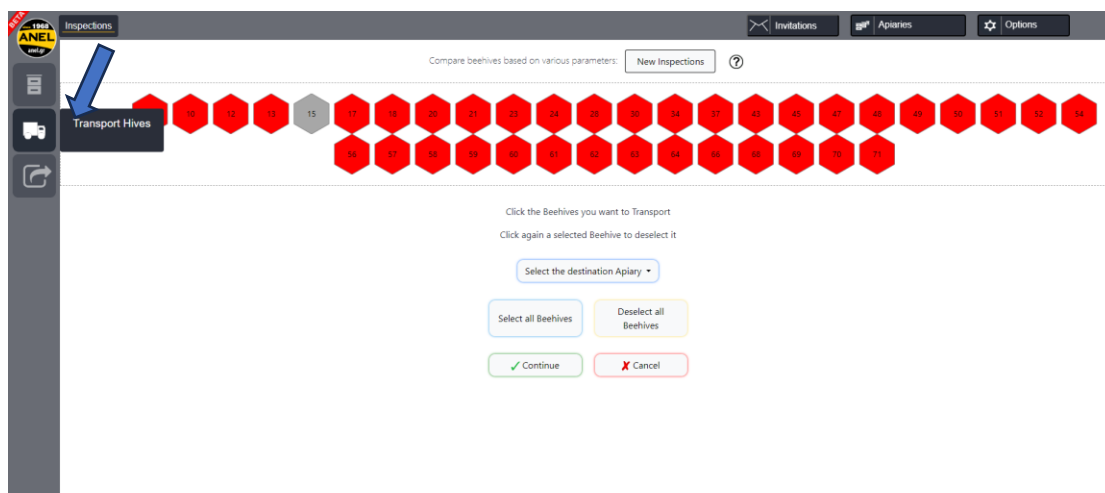
- a. Delete Apiary –
Press the **“Delete Apiaries”** option and choose the name of the apiary displayed on the map, then press **“OK”** to confirm the deletion.



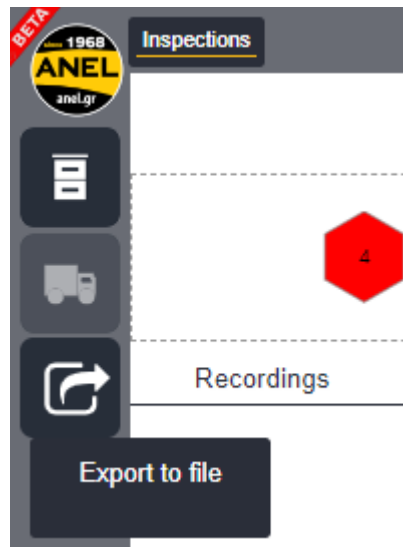
- b. Transfer Apiary –
Press the **“Move Apiaries”** option and choose the name of the apiary displayed on the map, then press **“OK”** to proceed with the transfer.



- c. Transfer Hives from one apiary to another registered one. Press the **“Transport Hives”** option and select the name of the apiary and the hives you want to transfer to it. Press **“Continue”** and the transfer will be completed.



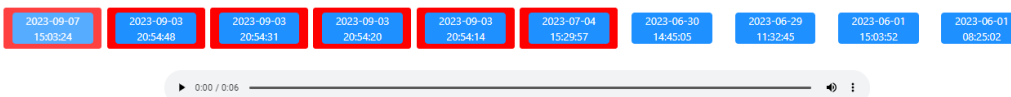
- d. Export to File – Press the “Export to File” option, and an Excel file will be generated with all the entries made in your apiary.



Hive Number	Inspection Date	Population Frames	Pollen Frames	Brood Frames	Honey Frames	Queen	Queen Age	Food	Diseases	Treatments
15	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
37	2023-06-29 11:32:19	7 No Value			3	2 No Value	No Value	No Value	No Value	No Value
37	2023-06-01 15:03:29	7 No Value			3	2 No Value	No Value	No Value	No Value	No Value
37	2023-06-01 08:34:56	6 No Value			3 No Value	Fertilized		yes	No Value	No Value
37	2023-06-30 14:44:33	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
37	2023-07-04 15:29:18	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
20	2023-06-29 11:32:28	6 No Value			2	1 Fertilized		yes	No Value	No Value
20	2023-06-01 15:03:23	6 No Value			2	1 Fertilized		yes	No Value	No Value
20	2023-06-01 08:25:20	5 No Value			0 No Value	Orphan Beehive	green	yes	No Value	No Value
20	2023-06-30 14:44:42	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
20	2023-07-04 15:29:42	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
10	2023-06-29 11:34:58	6 No Value			3	1 Fertilized		yes	No Value	No Value
10	2023-06-01 15:05:59	7 No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
10	2023-06-01 08:24:10	6 No Value			3 No Value	Fertilized		yes	No Value	No Value
10	2023-06-30 14:46:41	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
10	2023-07-04 15:31:27	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
49	2023-06-29 11:36:37	4 No Value			3	2 No Value	No Value	No Value	No Value	No Value
49	2023-06-01 15:06:09	4 No Value			3	2 No Value	No Value	No Value	No Value	No Value
49	2023-06-01 08:31:44	3 No Value			1 No Value	Fertilized		yes	No Value	No Value
49	2023-06-30 14:47:36	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
49	2023-07-04 15:31:58	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
49	2023-09-05 11:14:47	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-06-01 08:25:02	6 No Value			0 No Value	Orphan Beehive	green	yes	No Value	No Value
17	2023-09-03 20:54:14	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-09-03 20:54:20	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-09-03 20:54:31	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-09-03 20:54:48	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-06-01 15:03:52	8 No Value			3	1 Fertilized		yes	No Value	No Value
17	2023-06-29 11:32:45	8 No Value			3	1 Fertilized		yes	No Value	No Value
17	2023-06-30 14:45:05	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-07-04 15:29:57	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
17	2023-09-07 15:03:24	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
43	2023-06-01 08:32:31	2 No Value			0 No Value	Unfertilized		yes	No Value	No Value
43	2023-06-29 11:34:54	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value
43	2023-06-30 14:46:34	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value	No Value

- e. Archive of older recordings (available for a one-month period).

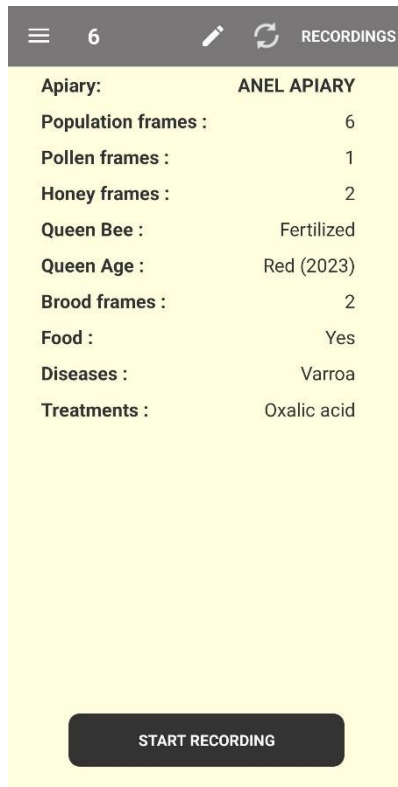
Recordings



➤ NEXT VISIT TO THE APIARY

I follow the same process, and after scanning with the mobile 'ANEL BEEID TAG', the data I have entered, will appear on the mobile screen.

✓ ANDROID

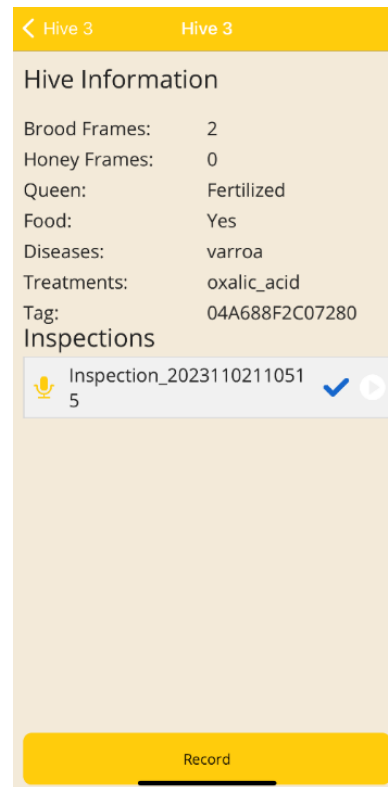


The screenshot shows the 'RECORDINGS' screen for 'ANEL APIARY'. The data is as follows:

Apiary:	ANEL APIARY
Population frames :	6
Pollen frames :	1
Honey frames :	2
Queen Bee :	Fertilized
Queen Age :	Red (2023)
Brood frames :	2
Food :	Yes
Diseases :	Varroa
Treatments :	Oxalic acid

At the bottom, there is a 'START RECORDING' button.

✓ IOS



The screenshot shows the 'Hive Information' screen for 'Hive 3'. The data is as follows:

Brood Frames:	2
Honey Frames:	0
Queen:	Fertilized
Food:	Yes
Diseases:	varroa
Treatments:	oxalic_acid
Tag:	04A688F2C07280

Under the 'Inspections' section, there is one entry: 'Inspection_2023110211051' with a value of '5'. The entry has a microphone icon, a checkmark, and a play button.

At the bottom, there is a 'Record' button.