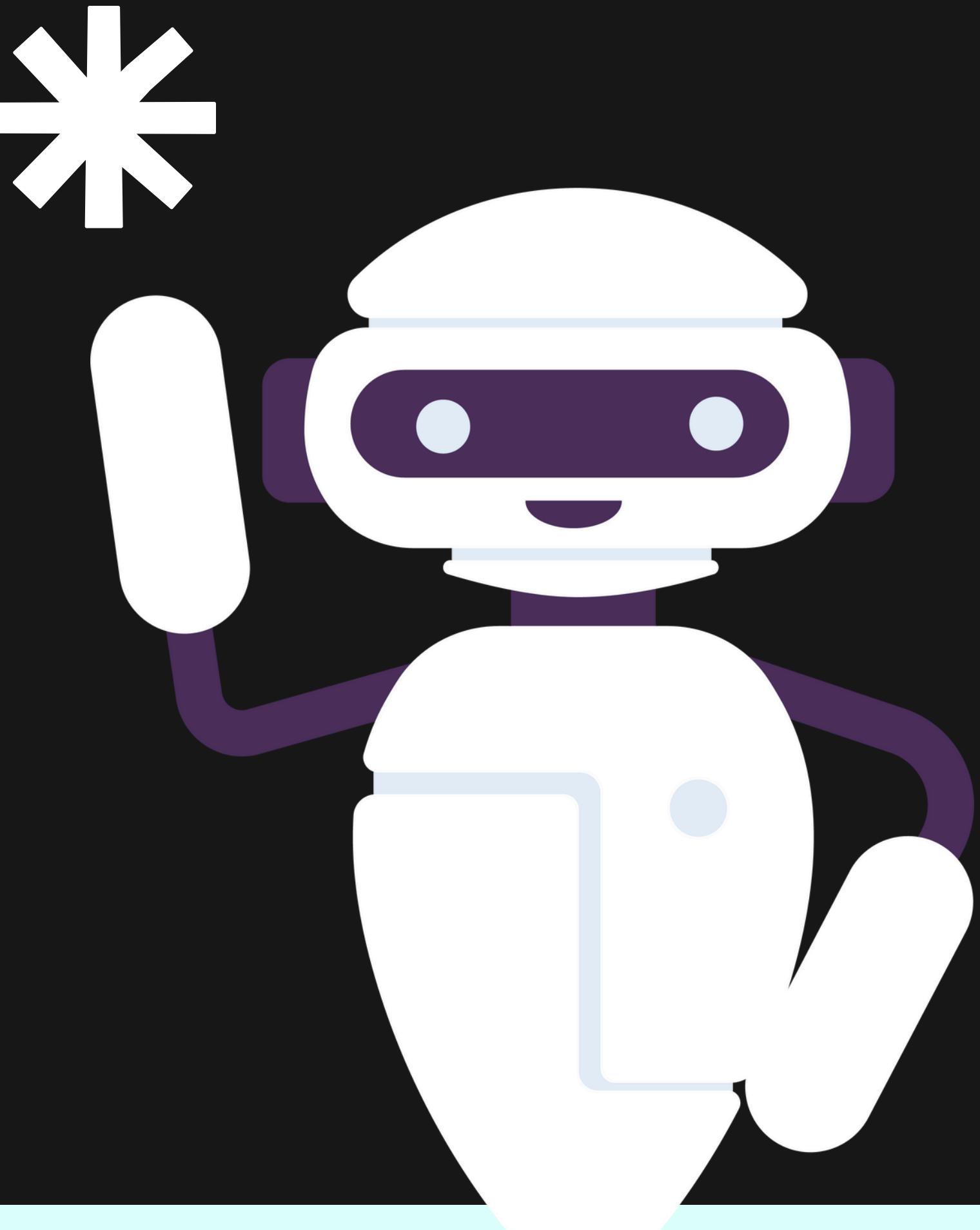


Business Analytics & Personalization
Technologies 2024

Household Chore Assistant

Presented by **Insight Job**

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Agenda

01

Purpose
and Role

02

Workflows

03

Dialogues

04

Video

Agenda

01

**Purpose
and Role**

02

Workflows

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Purpose and Role

The Household Chore Assistant **streamlines task management** and **simplifies household operations** for shared living spaces



Efficient Task Management

Allows users to **set up** their household members, defining **preferences** and **availabilities**

Assigns chores based on these preferences and schedules.



User-Friendly Customization

Allows users to **set** preferences, **adjust** schedules, and **log** completed tasks with ease



Problem Reporting

Helps users **report** household **issues** and connects them with local technicians.

Agenda

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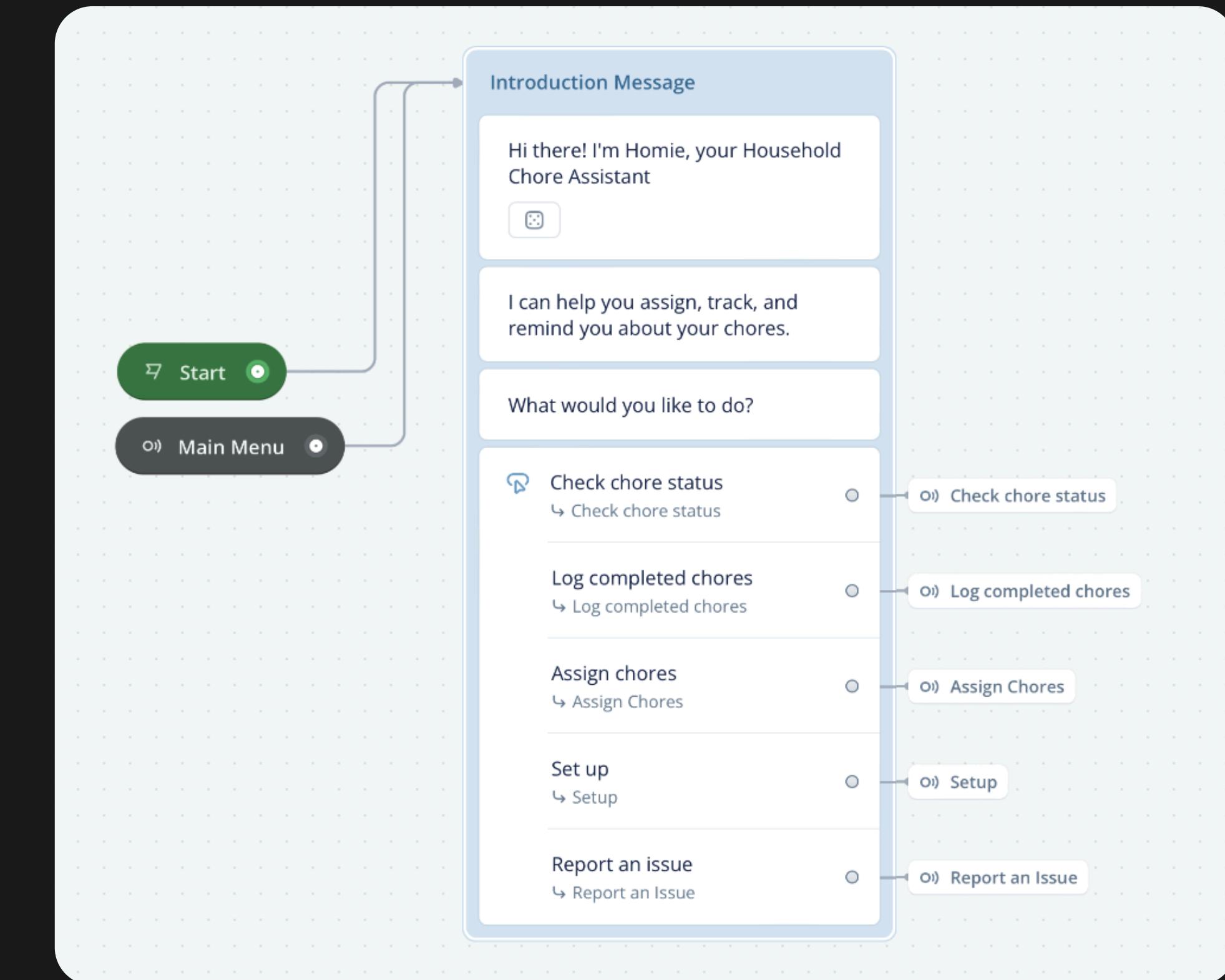
Dialogues

04

Video

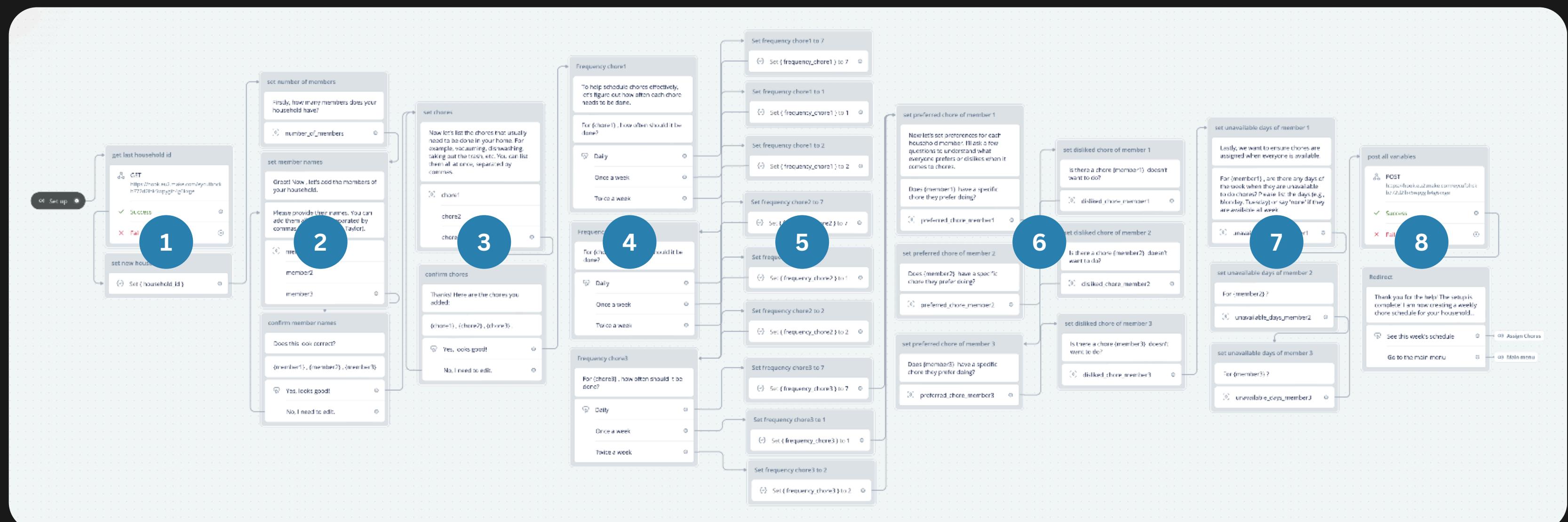
User Onboarding

Introduces the Chore Assistant and presents the **main options** for the user to interact with the bot.



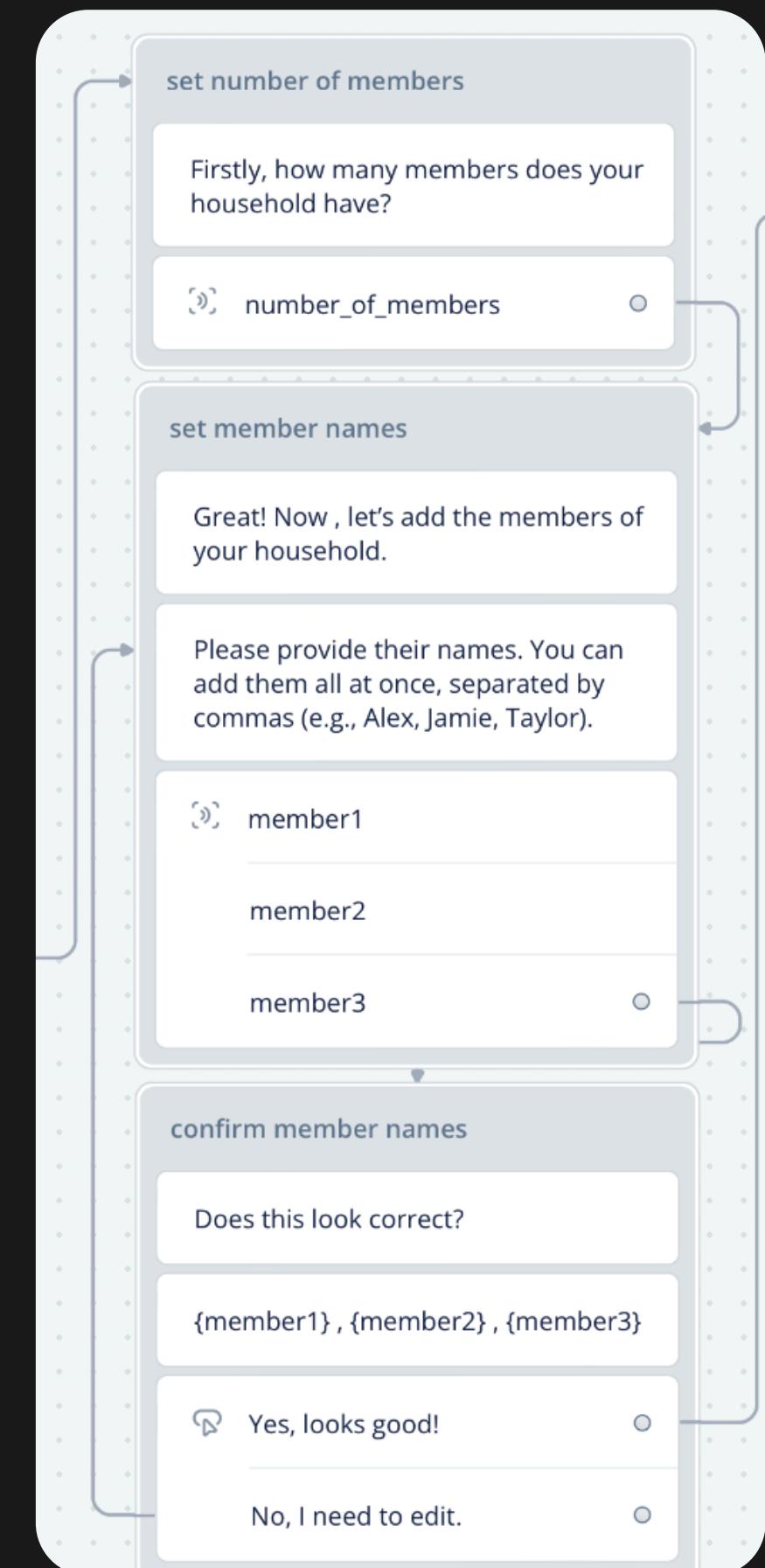
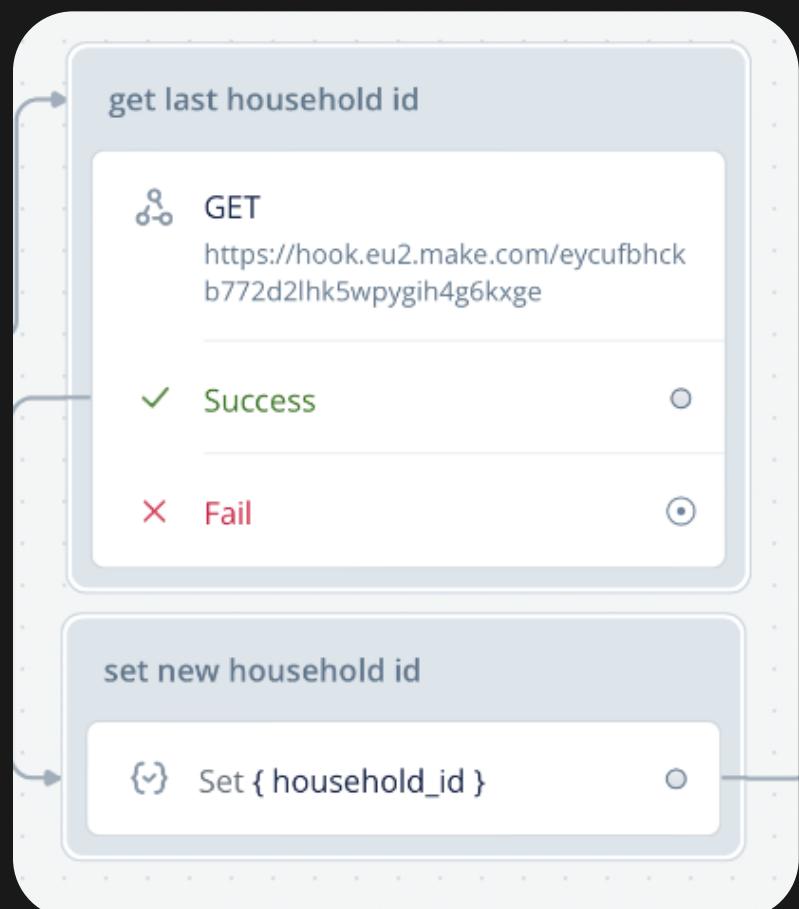
Household Setup

The setup workflow registers the household's **members**, the **chores**, each chore's **frequency**, each member's **preferences** and **availability**.



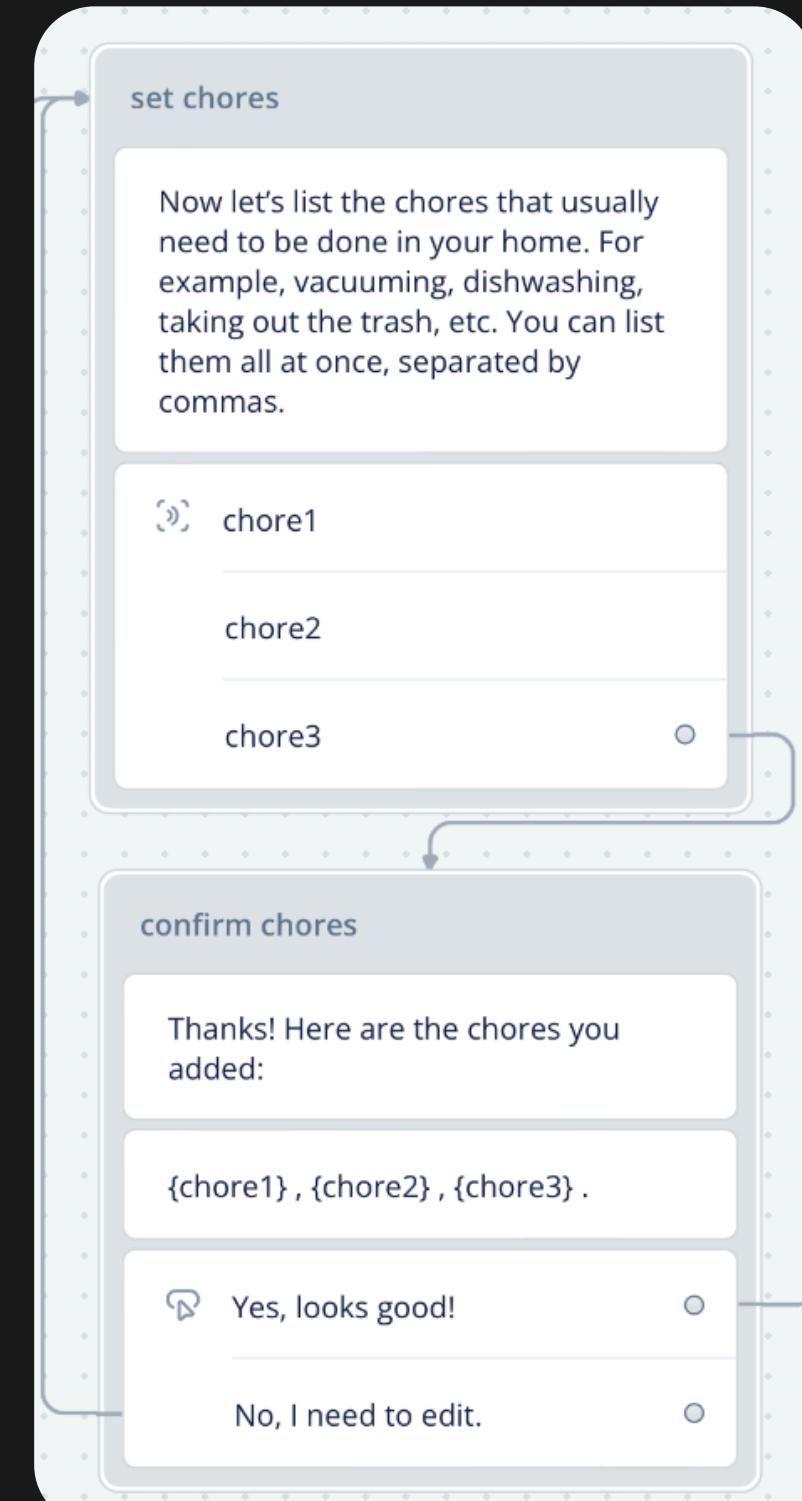
1

Create a new household ID



2

Set total number of members



3

Set chores

4

Set each chore's frequency

Frequency chore1

To help schedule chores effectively, let's figure out how often each chore needs to be done.

For {chore1}, how often should it be done?

Daily

Once a week

Twice a week

Frequency chore2

For {chore2}, how often should it be done?

Daily

Once a week

Twice a week

Frequency chore3

For {chore3}, how often should it be done?

Daily

Once a week

Twice a week

5

Assign frequency to each chore as a number

Set frequency chore1 to 7

Set {frequency_chore1} to 7

Set frequency chore1 to 1

Set {frequency_chore1} to 1

Set frequency chore1 to 2

Set {frequency_chore1} to 2

Set frequency chore2 to 7

Set {frequency_chore2} to 7

Set frequency chore2 to 1

Set {frequency_chore2} to 1

Set frequency chore2 to 2

Set {frequency_chore2} to 2

Set frequency chore3 to 7

Set {frequency_chore3} to 7

Set frequency chore3 to 1

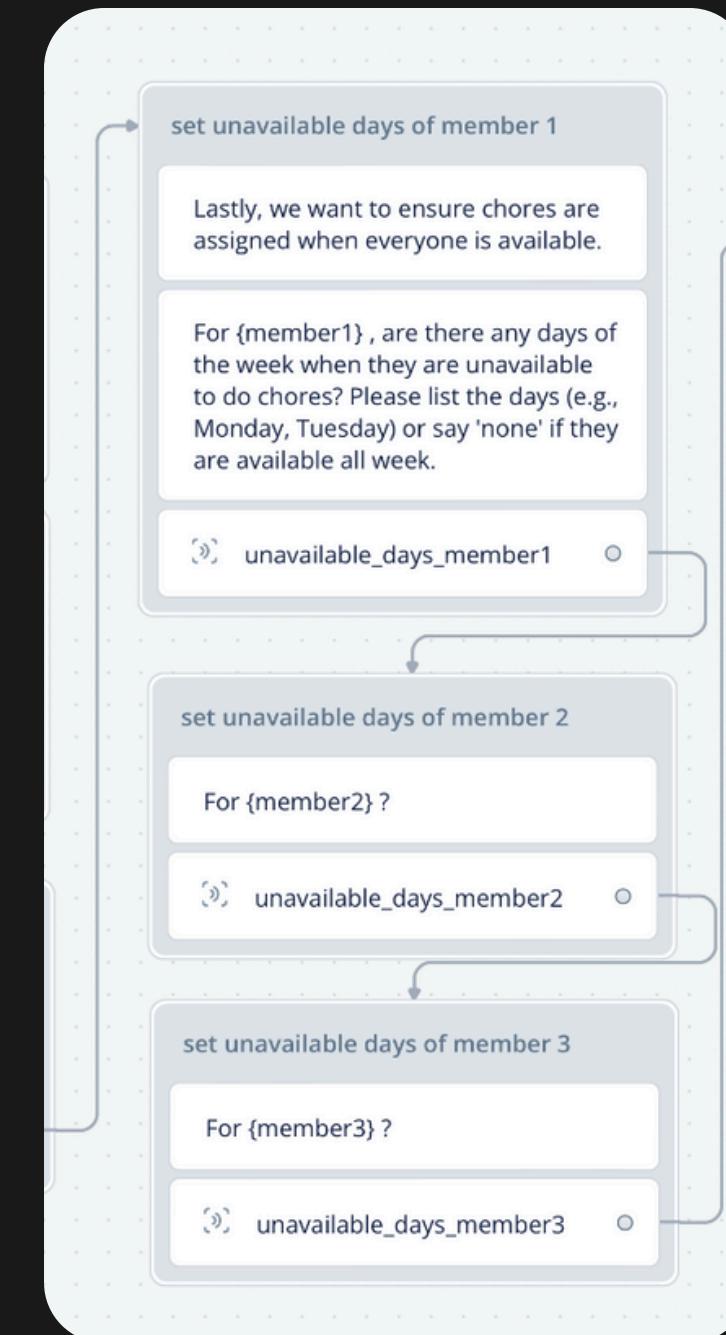
Set {frequency_chore3} to 1

Set frequency chore3 to 2

Set {frequency_chore3} to 2

Set each member's preferred and disliked chore

6

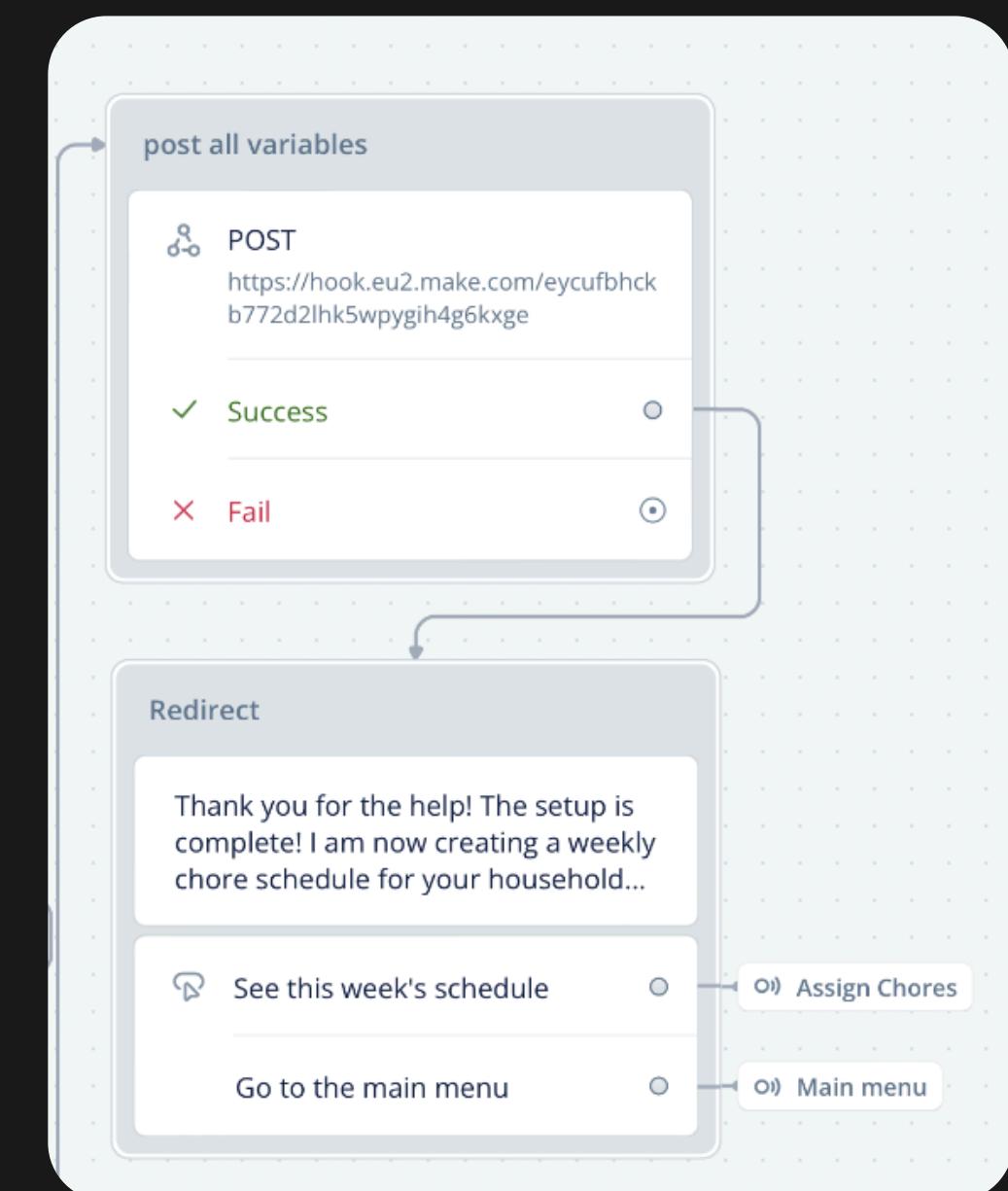


7

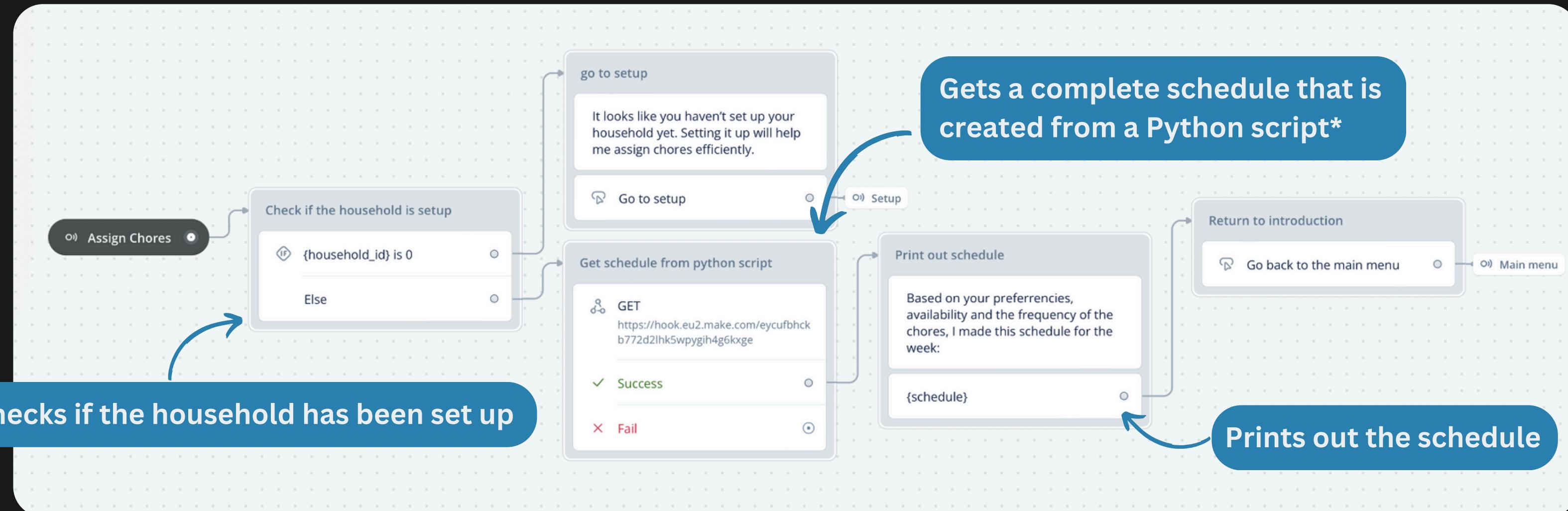
Set each member's availability

Save all collected data to the Google sheet

8



Chore Assignment

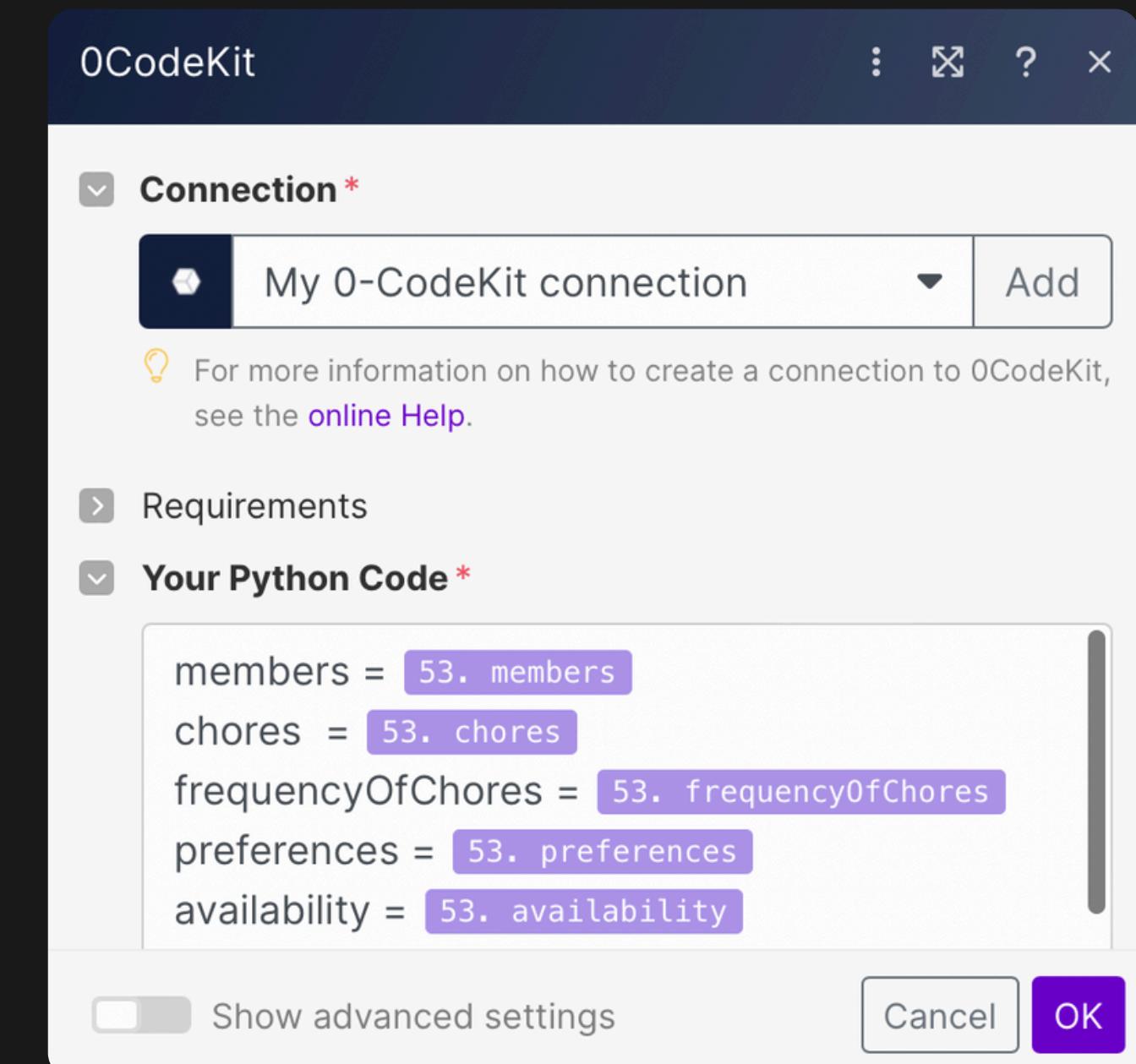


Creation of chore schedule*

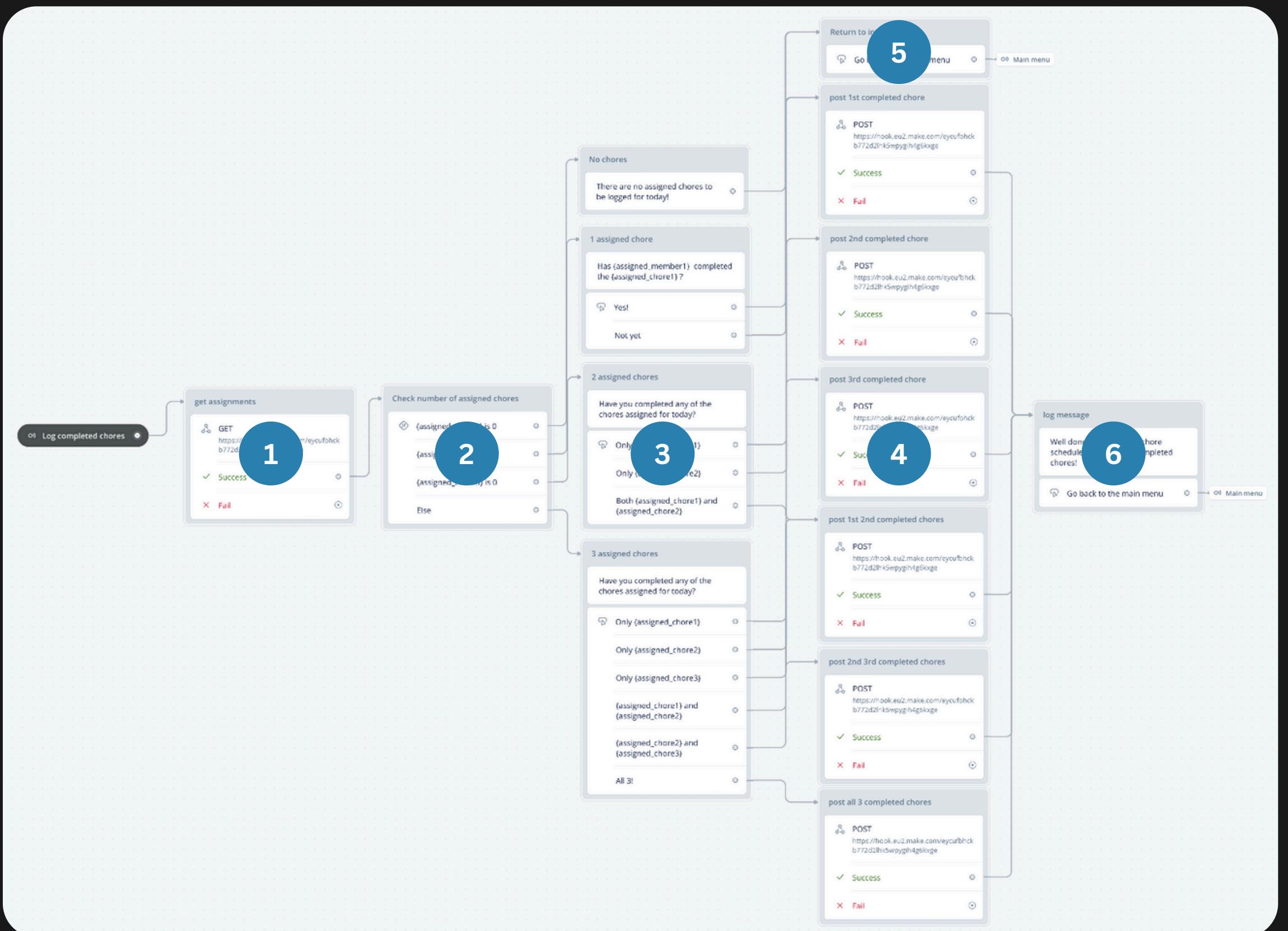
The schedule is created via a module of the webhook called **OCodeKit**

OCodeKit executes a Python script that creates the weekly chore schedule based on 3 parameters:

- **Members' availability**
- **Members' chore preferences**
- **Chore frequency**

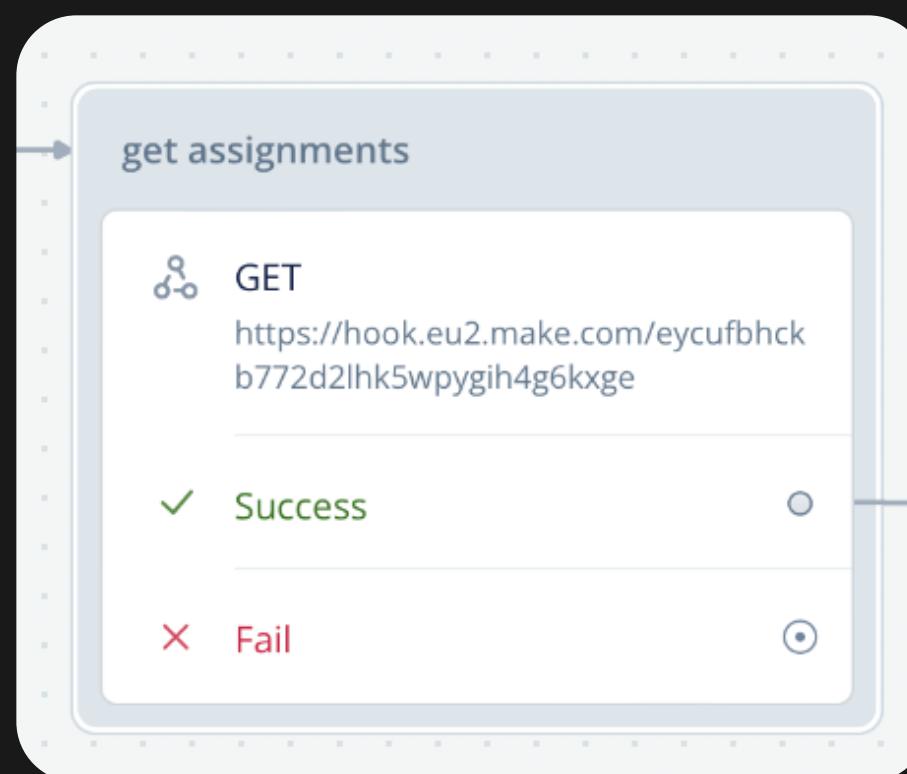


Log Completed Chores



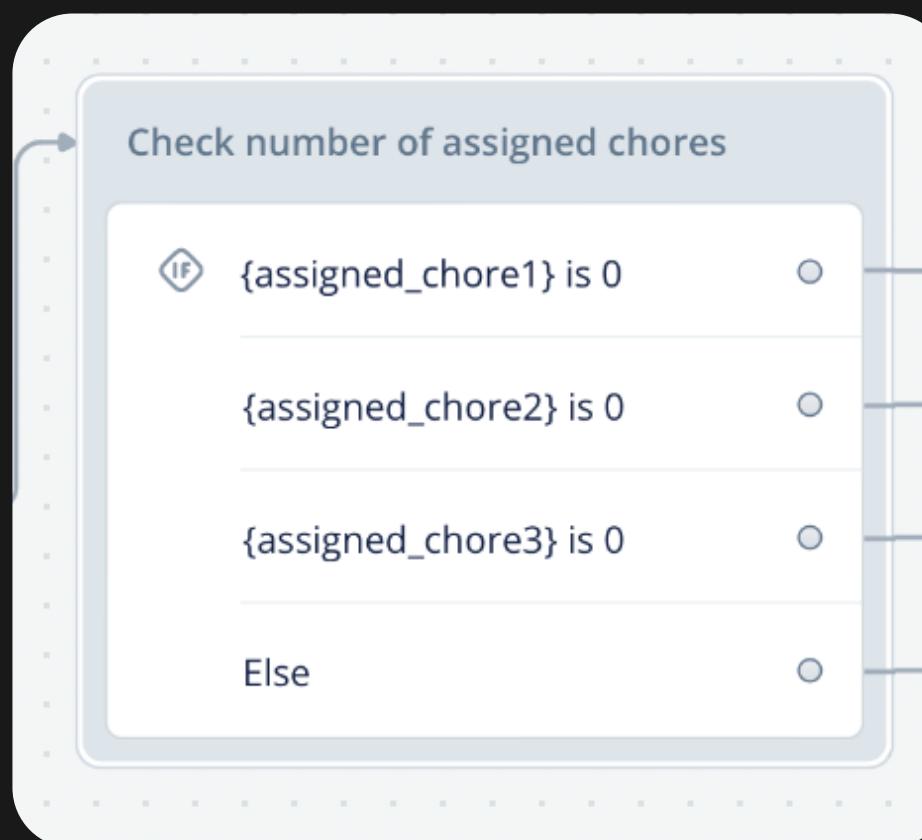
1

Get today's chore assignments



2

Based on the number of assignments



No chores

There are no assigned chores to be logged for today!

1 assigned chore

Has {assigned_member1} completed the {assigned_chore1}?

Yes!

Not yet

2 assigned chores

Have you completed any of the chores assigned for today?

Only {assigned_chore1}

Only {assigned_chore2}

Both {assigned_chore1} and {assigned_chore2}

3 assigned chores

Have you completed any of the chores assigned for today?

Only {assigned_chore1}

Only {assigned_chore2}

Only {assigned_chore3}

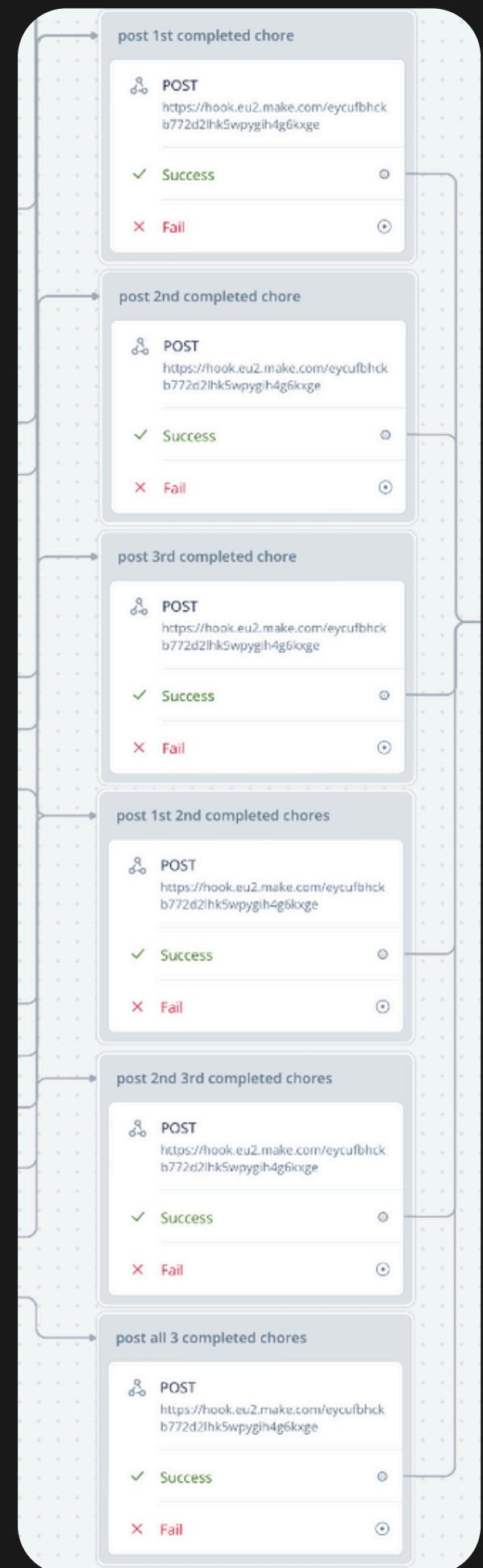
{assigned_chore1} and {assigned_chore2}

{assigned_chore2} and {assigned_chore3}

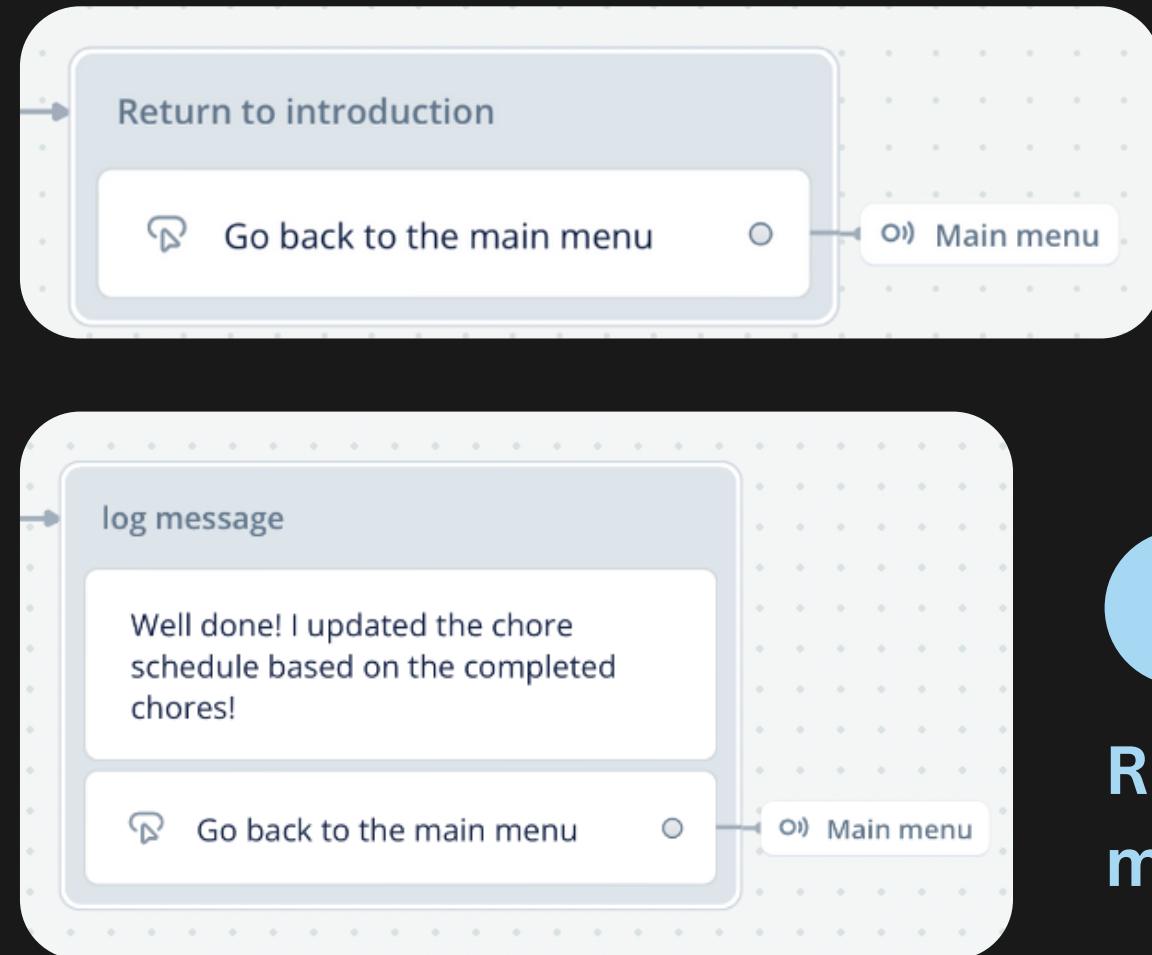
All 3!

3

Print out the corresponding choices/message



4 Save completed chores



5

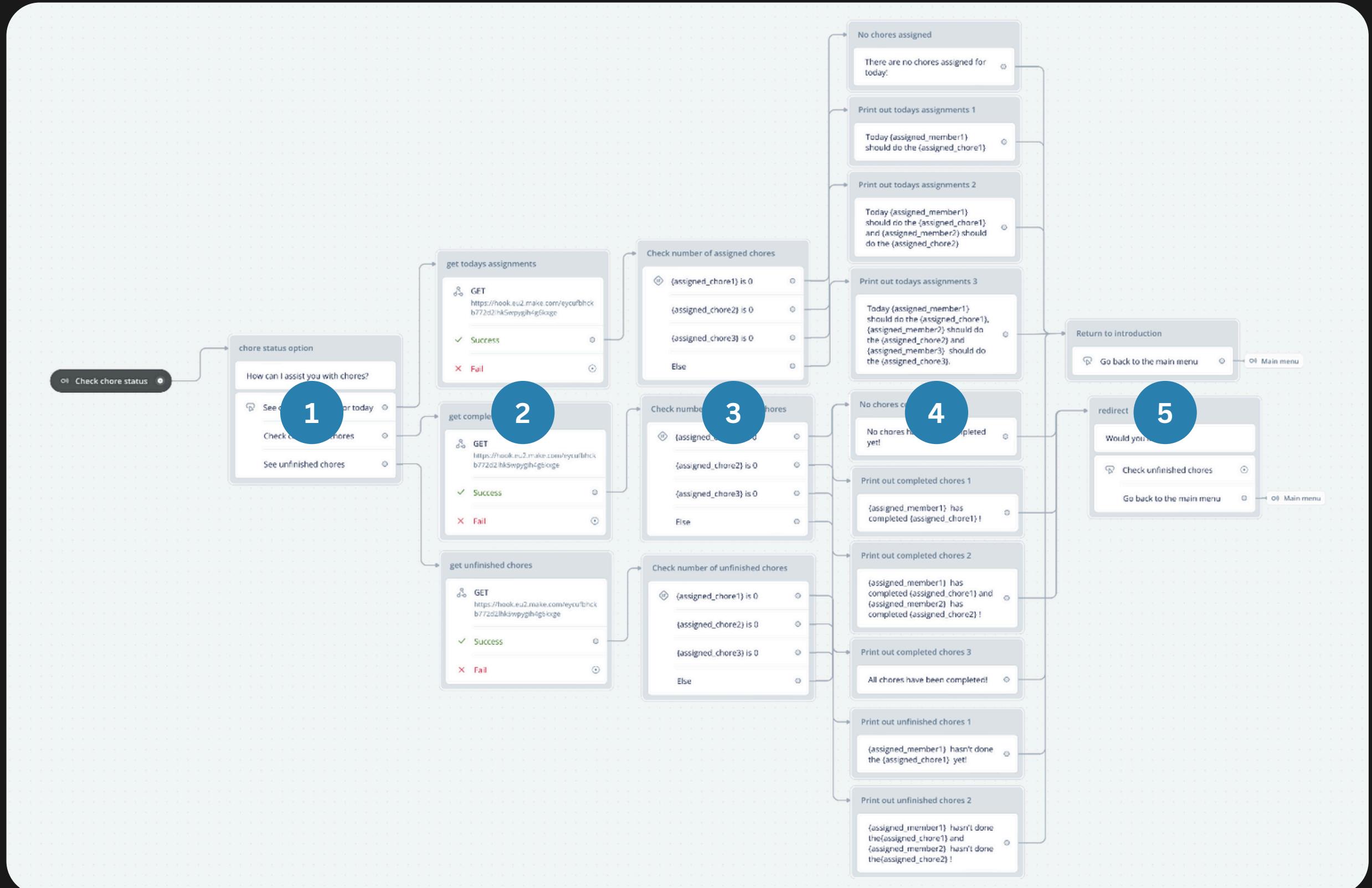
6

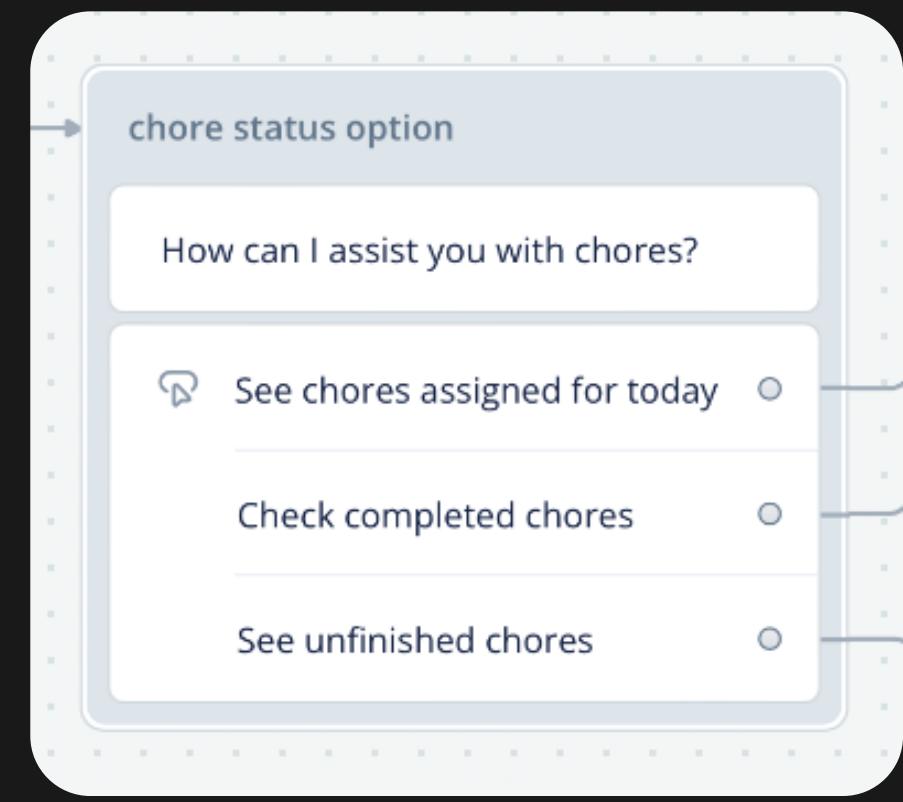
Redirect to main menu

The completed chores are assigned the value -1

A	B	C	D	E	F
household_id	chore	member	monday	tuesday	wednesday
13	vacuuming	emilia	1	1	0
13	dishwashing	natalia	-1	1	1
13	laundry	christos	0	0	1

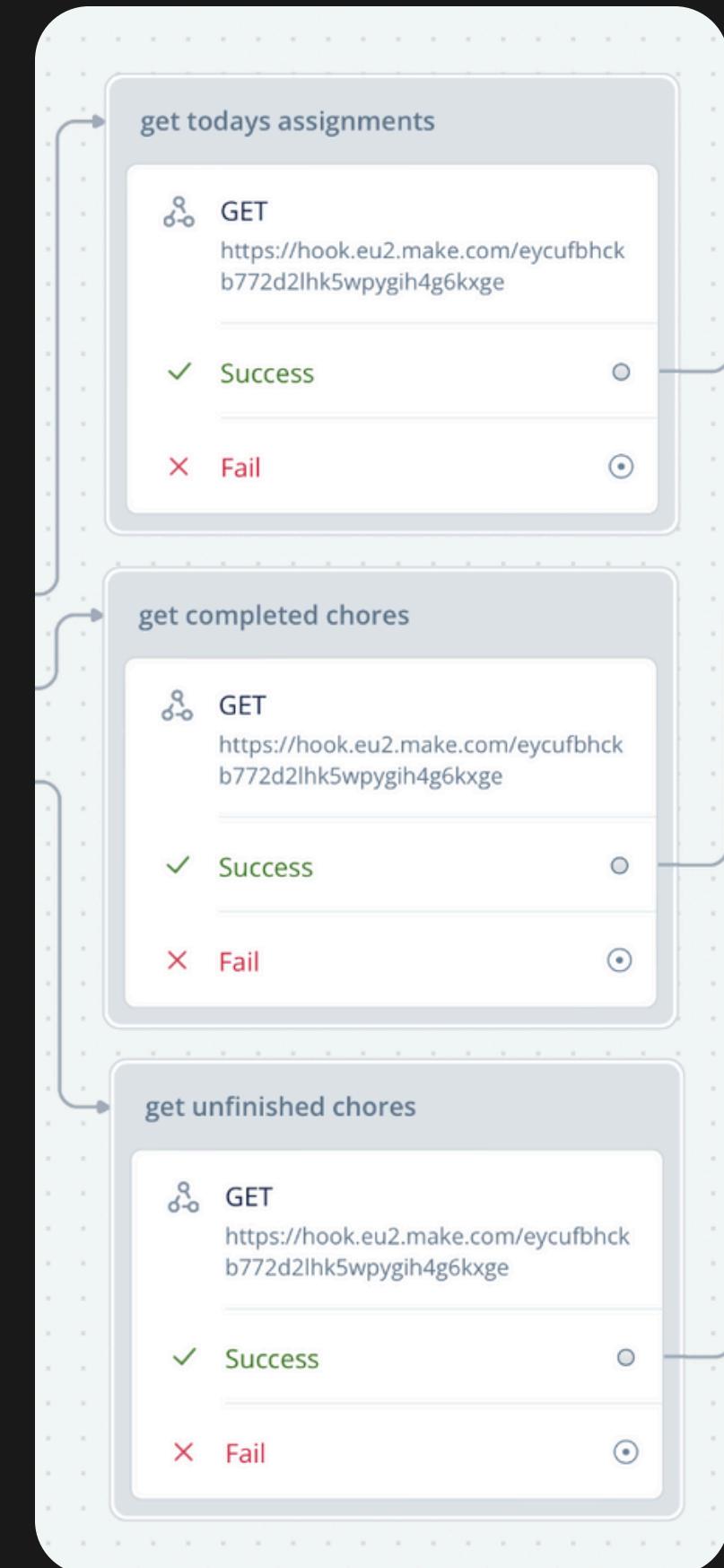
Check Chore Status





1

Print out status view options

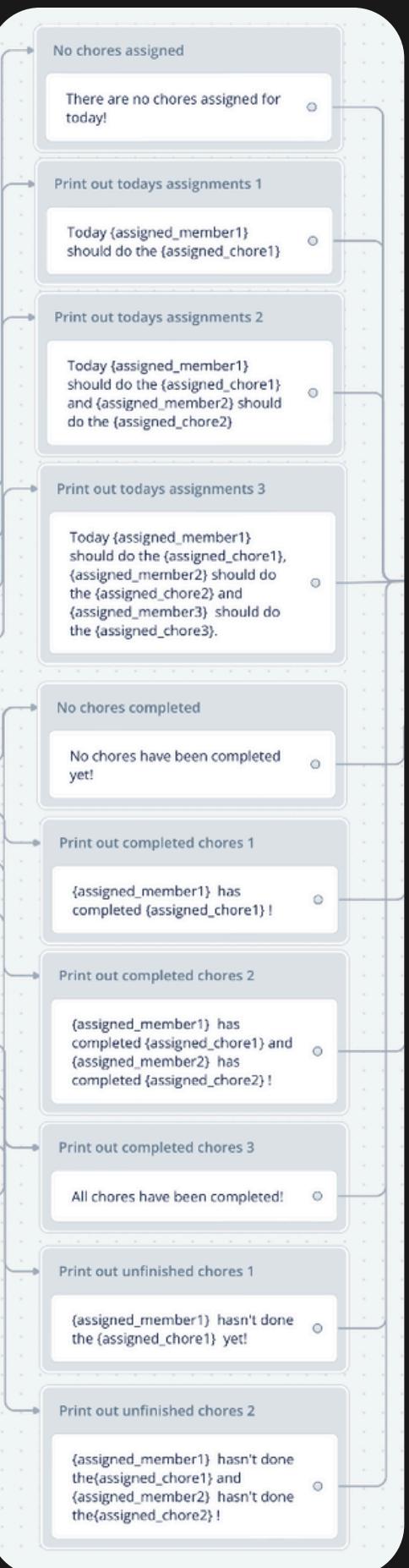
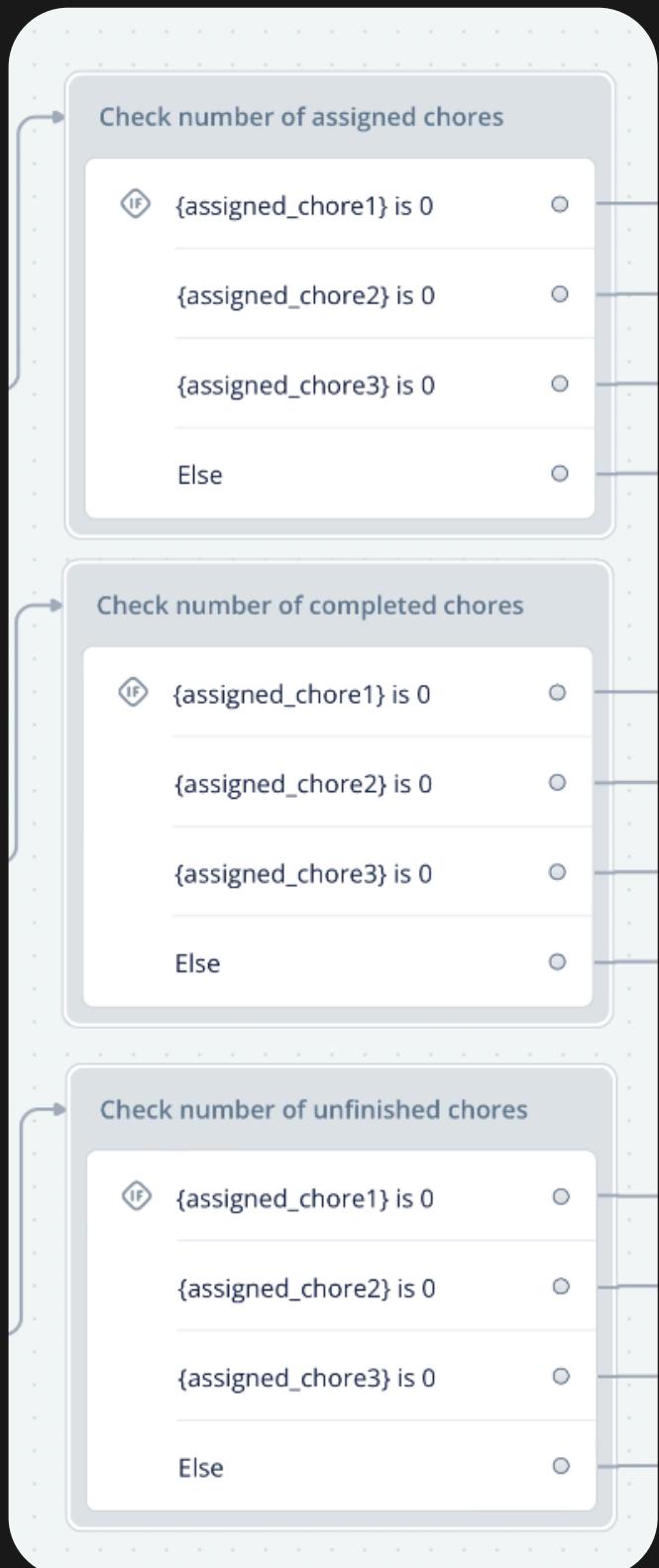


2

Get chores and members corresponding to user option

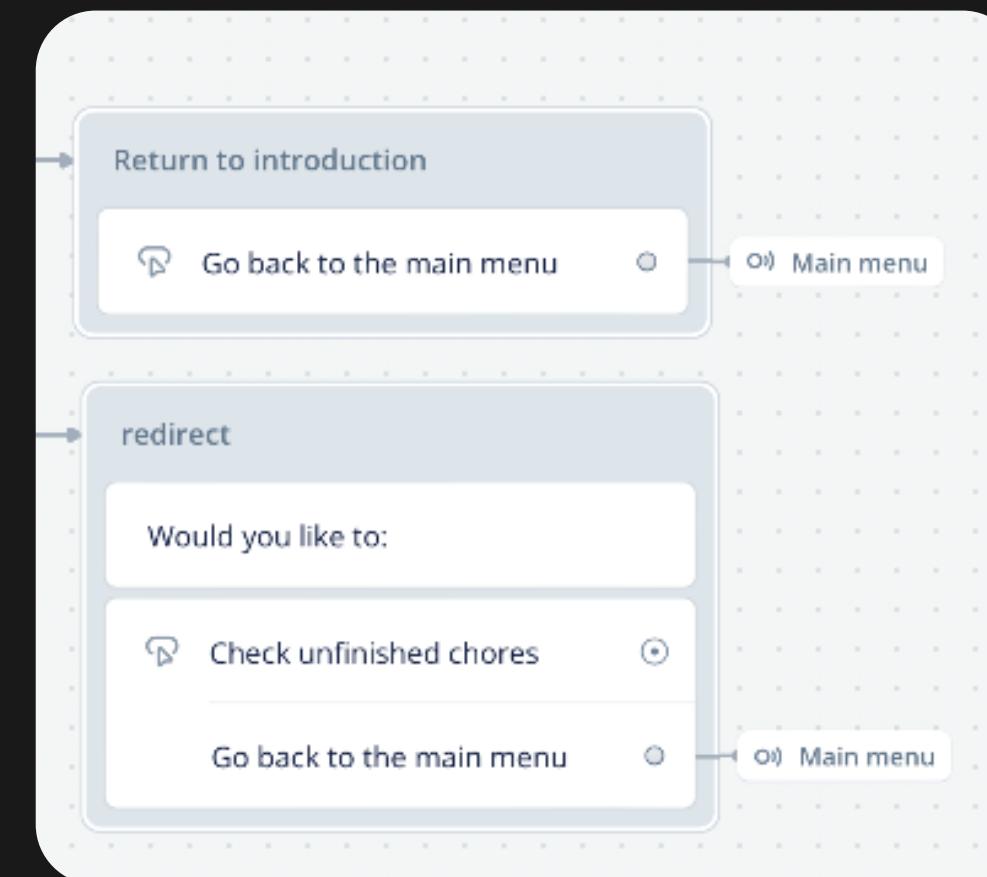
3

Based on number of output chores



5

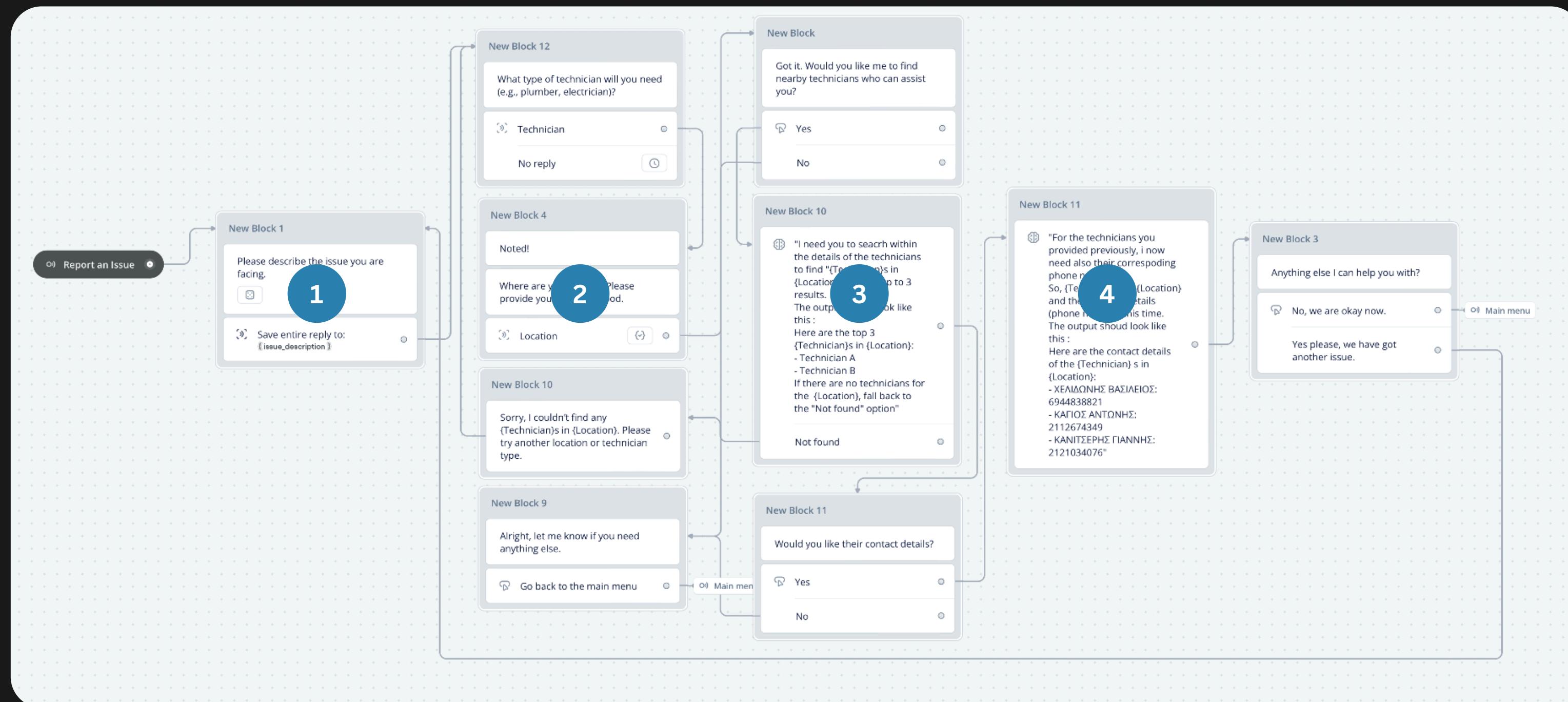
Redirect to main menu/other option

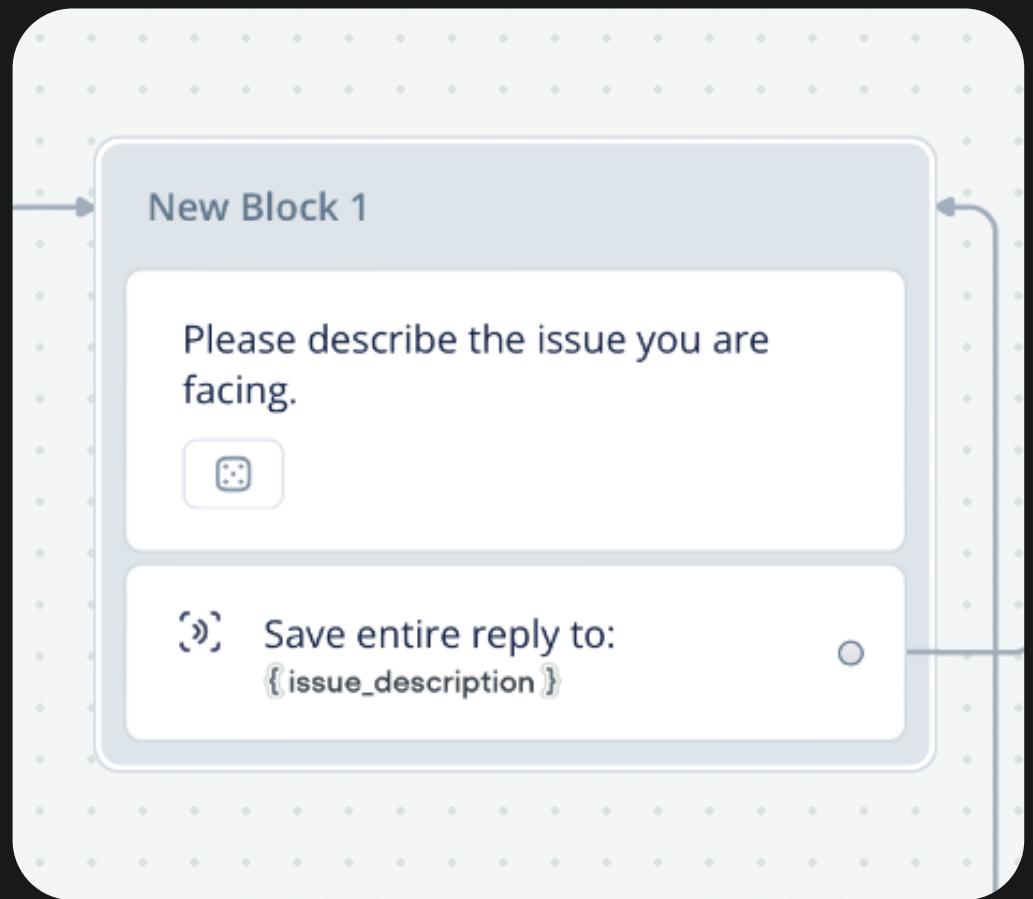


4

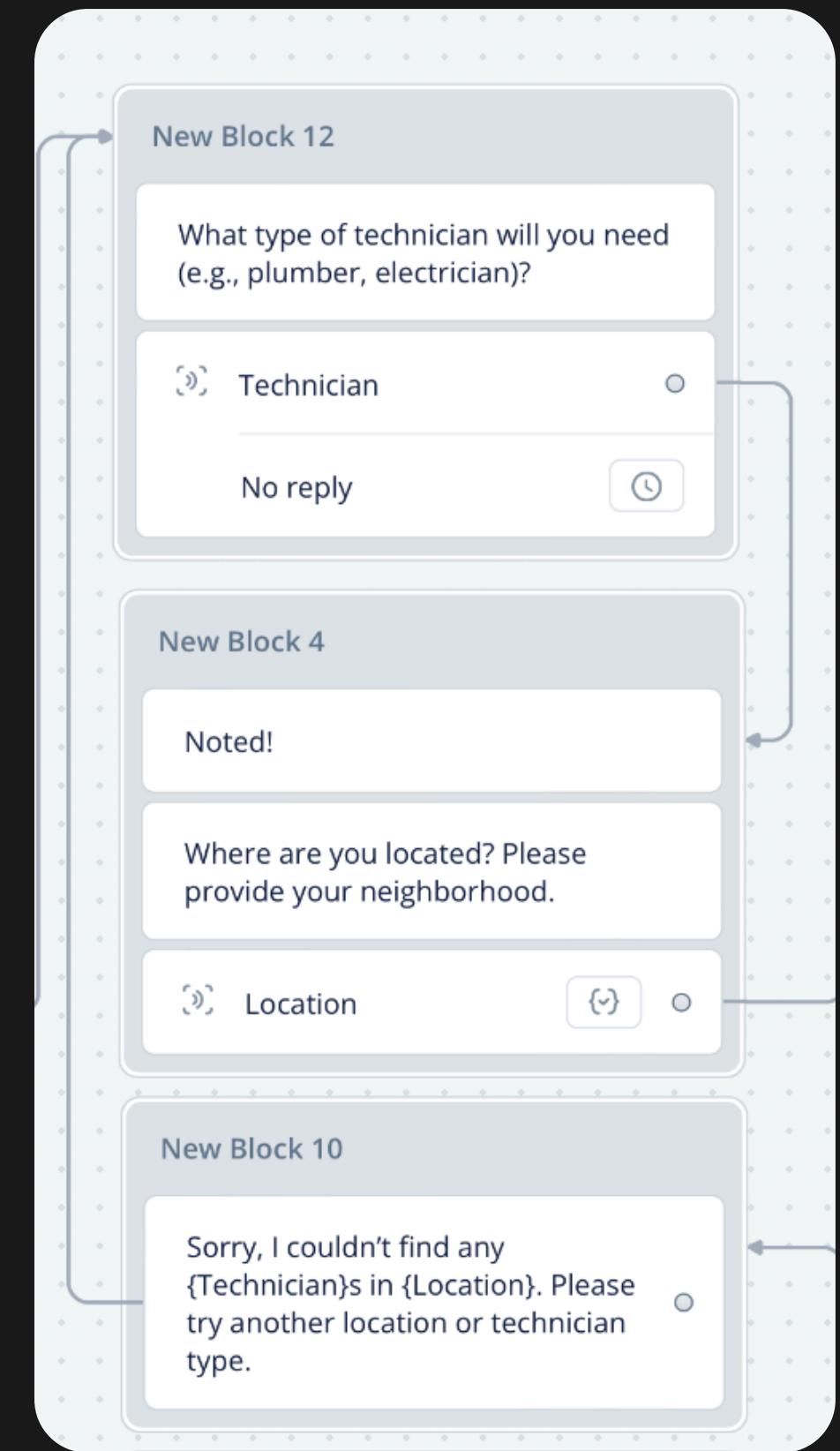
Print out assigned/ completed/ unfinished chores

Issue Reporting





1 Issue description

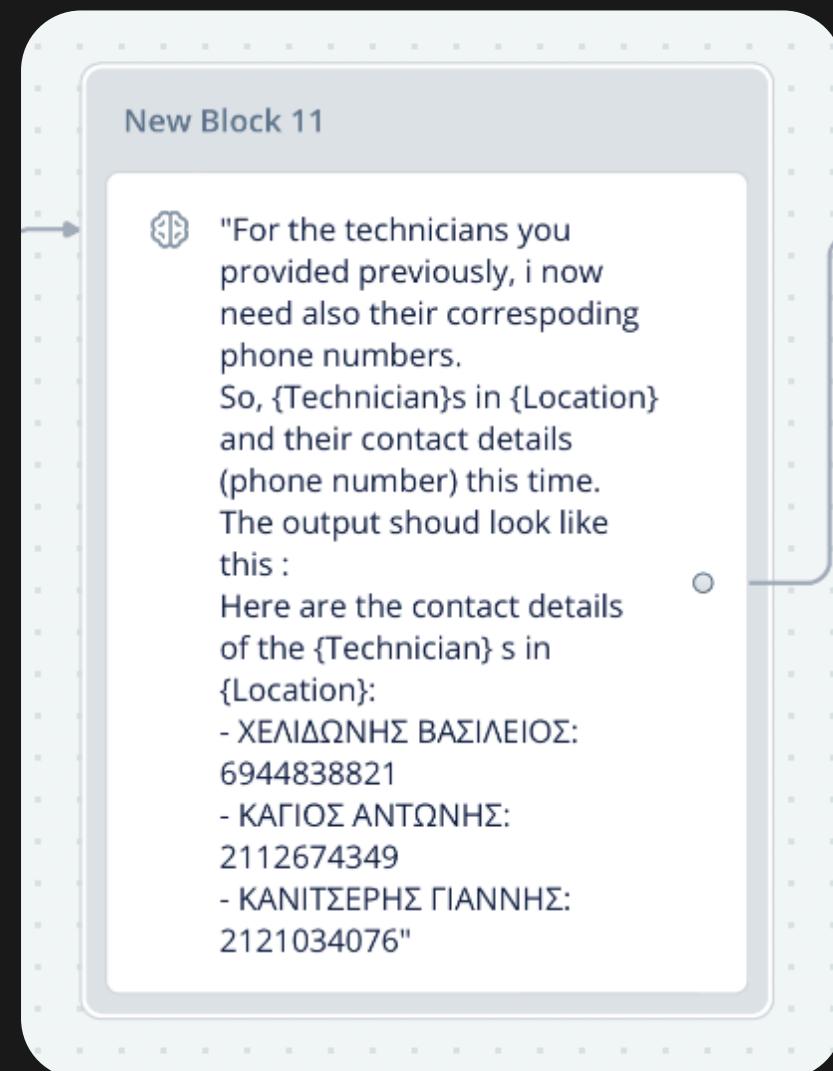
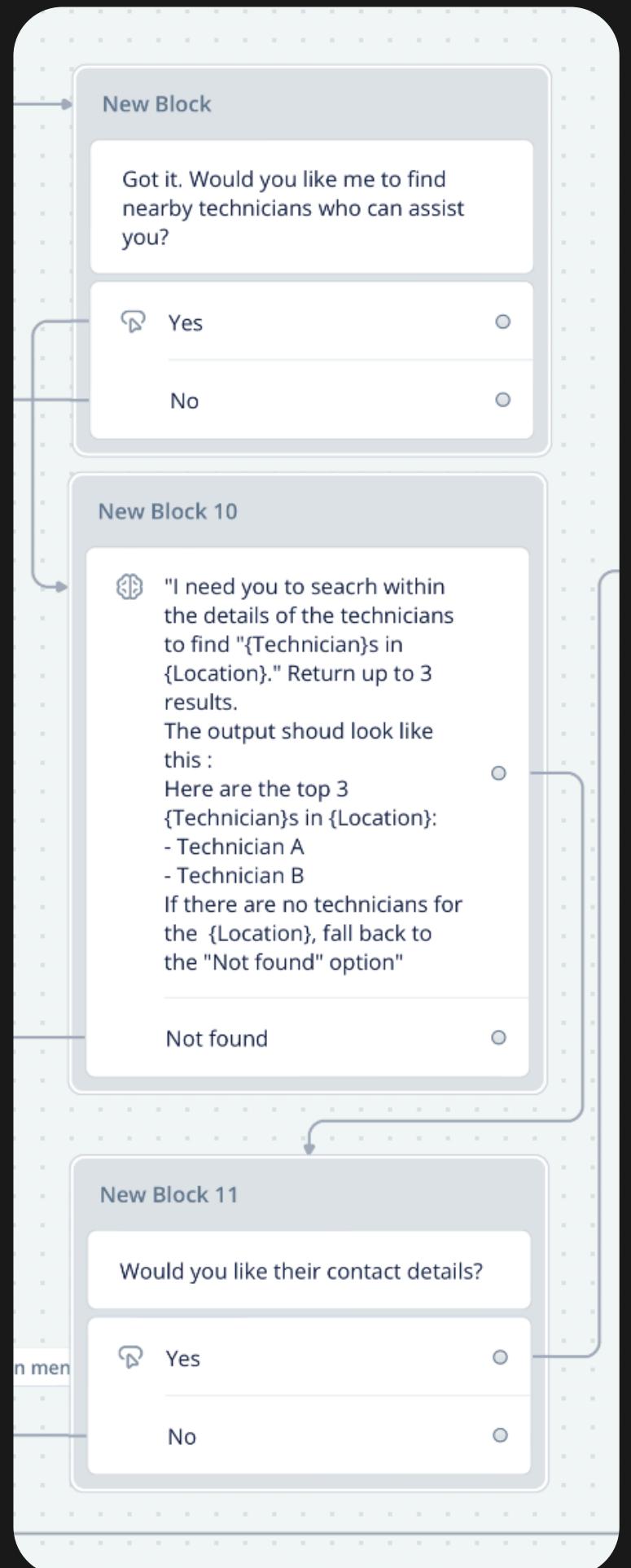


2

Get technician type and location

3

Locate nearby technicians through the Knowledge Base



4

Print out technicians with their contact details

Agenda

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and Role

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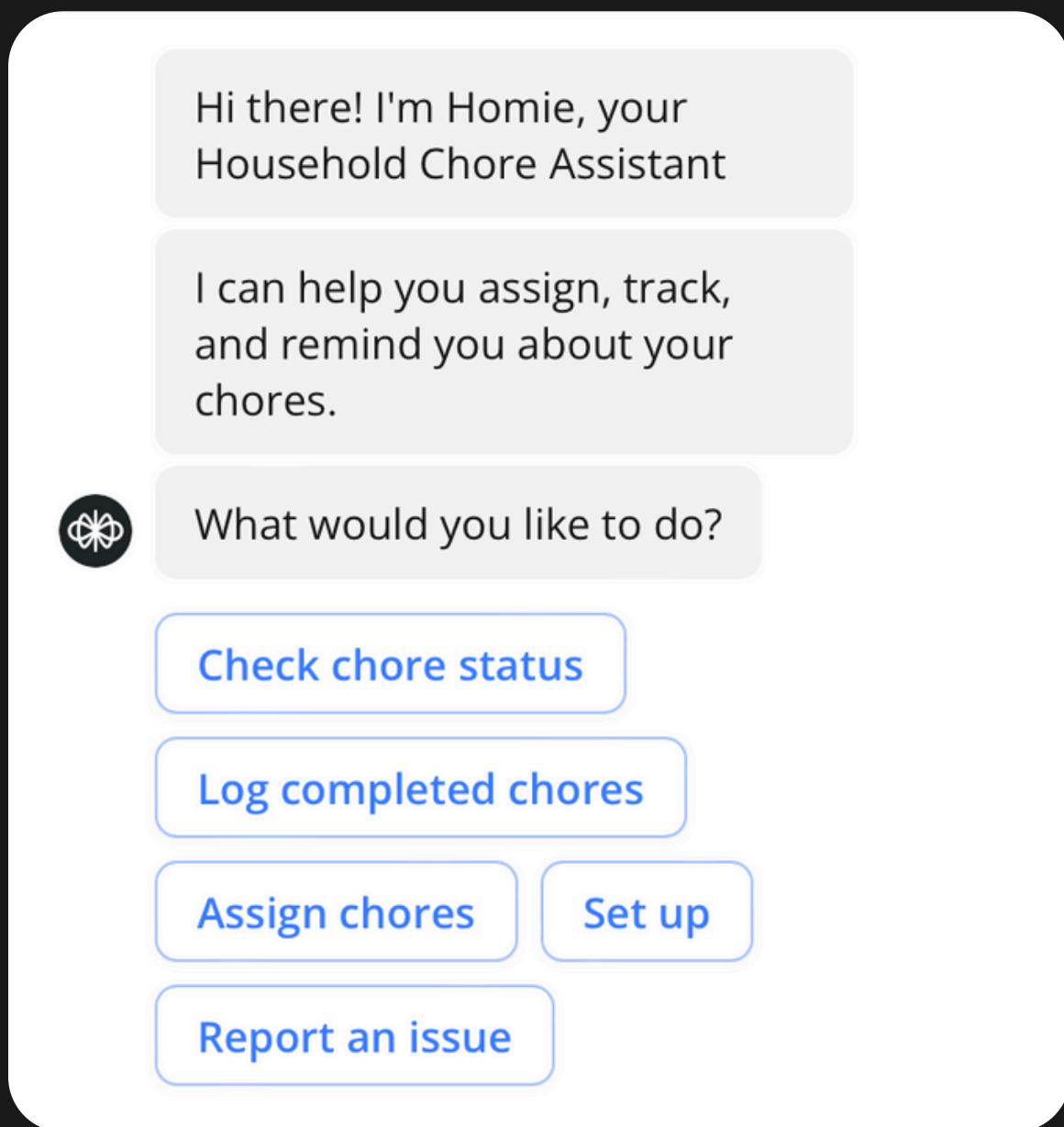
03

Dialogues

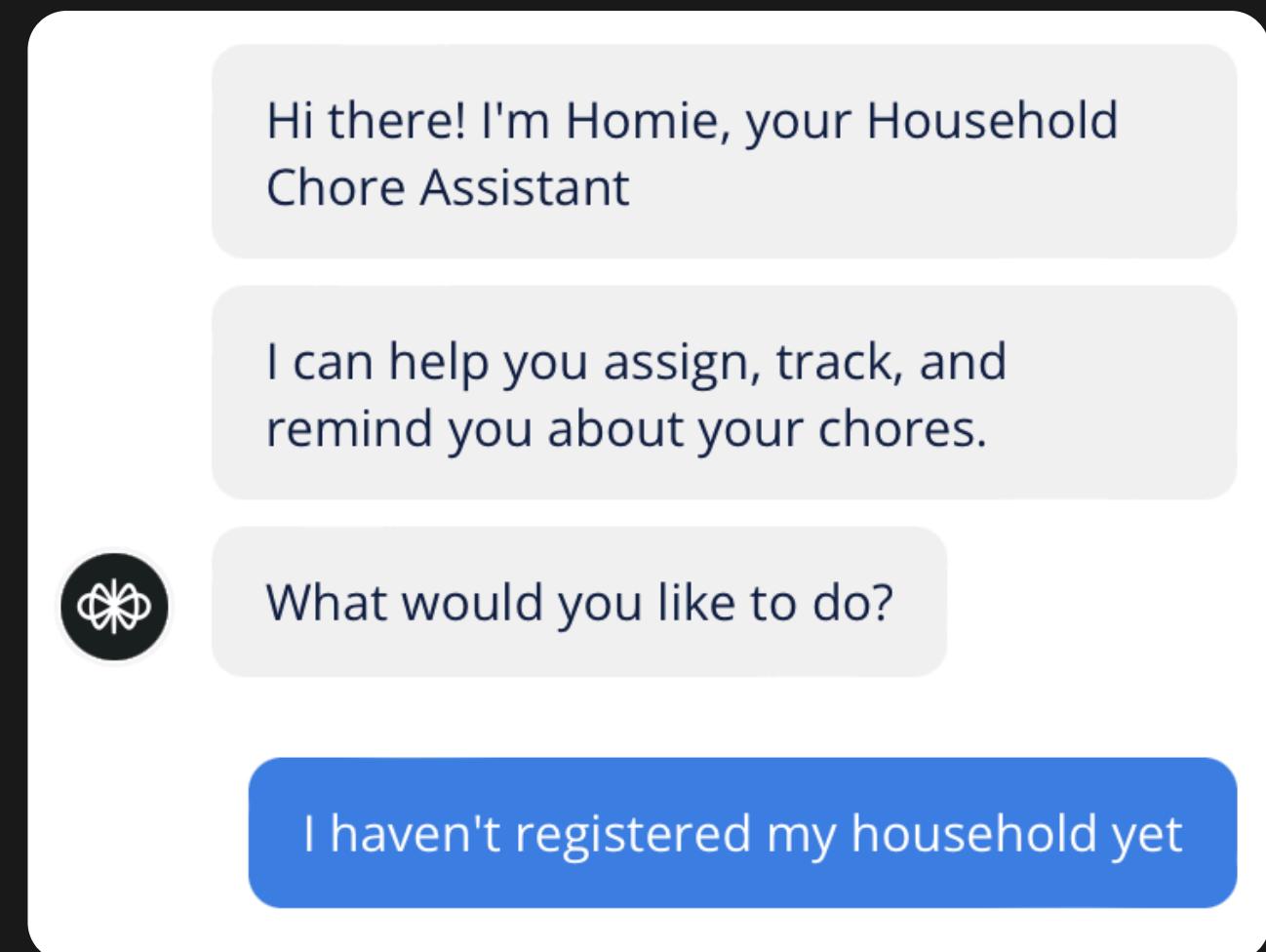
04

Video

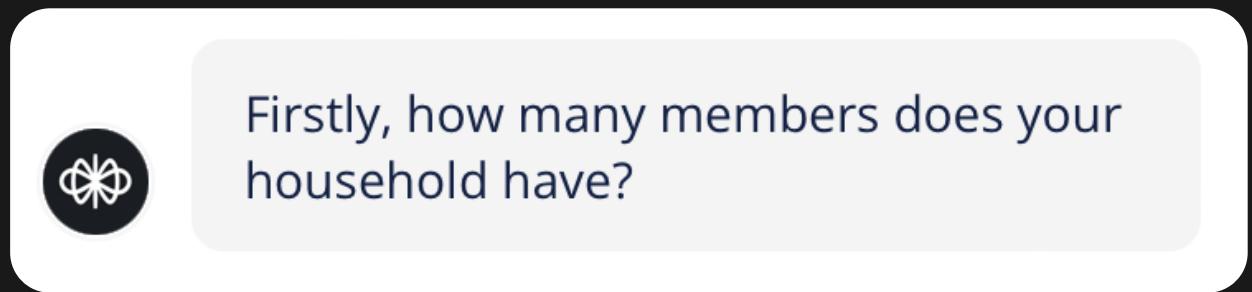
Dialogues | Introduction



1 Selecting one of the default buttons



2 Typing a custom request



Agent's Response

Dialogues

Setup

Firstly, how many members does your household have?

3

Great! Now , let's add the members of your household.

Please provide their names. You can add them all at once, separated by commas (e.g., Alex, Jamie, Taylor).

Emilia, Natalia, Christos

Now let's set preferences for each household member. I'll ask a few questions to understand what everyone prefers or dislikes when it comes to chores.

Does Emilia have a specific chore they prefer doing?

vacuuming

Daily

Is there a chore Emilia doesn't want to do?

laundry

Now let's list the chores that usually need to be done in your home. For example, vacuuming, dishwashing, taking out the trash, etc. You can list them all at once, separated by commas.

dishwashing, laundry, vacuuming

To help schedule chores effectively, let's figure out how often each chore needs to be done.

For dishwashing , how often should it be done?

Lastly, we want to ensure chores are assigned when everyone is available.

For Emilia , are there any days of the week when they are unavailable to do chores? Please list the days (e.g., Monday, Tuesday) or say 'none' if they are available all week.

Thursday, Wednesday

For Natalia ?

Dialogues

Assignment

[See this week's schedule](#)

Based on your preferences, availability and the frequency of the chores, I made this schedule for the week:

Emilia:
vacuuming on Monday,
Tuesday

Natalia:
dishwashing everyday

Christos:
laundry on Wednesday



Dialogues

Log completed chores

Log completed chores



Have you completed any of the chores assigned for today?

Only vacuuming

Only dishwashing

Both vacuuming and dishwashing

Only dishwashing

Well done! I updated the chore schedule based on the completed chores!

Go back to the main menu

Dialogues

Check chore status

[Check chore status](#)

How can I assist you with chores?

[See chores assigned for today](#)

[Check completed chores](#)

[See unfinished chores](#)

1

Today emilia should do the vacuuming and natalia should do the dishwashing

[Go back to the main menu](#)

2

natalia has completed dishwashing !

Would you like to:

[Check unfinished chores](#)

[Go back to the main menu](#)

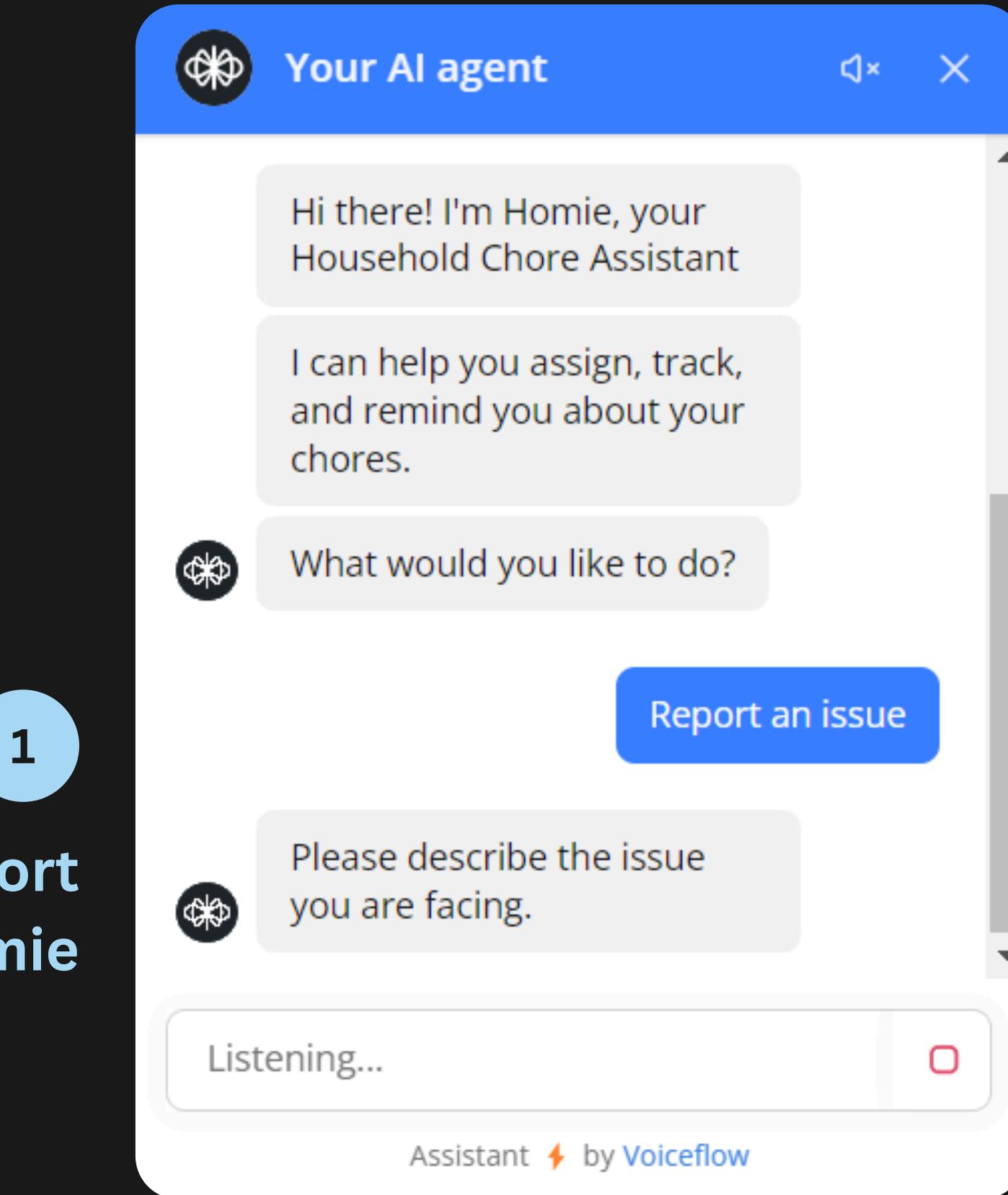
3

emilia hasn't done the vacuuming yet!

[Go back to the main menu](#)

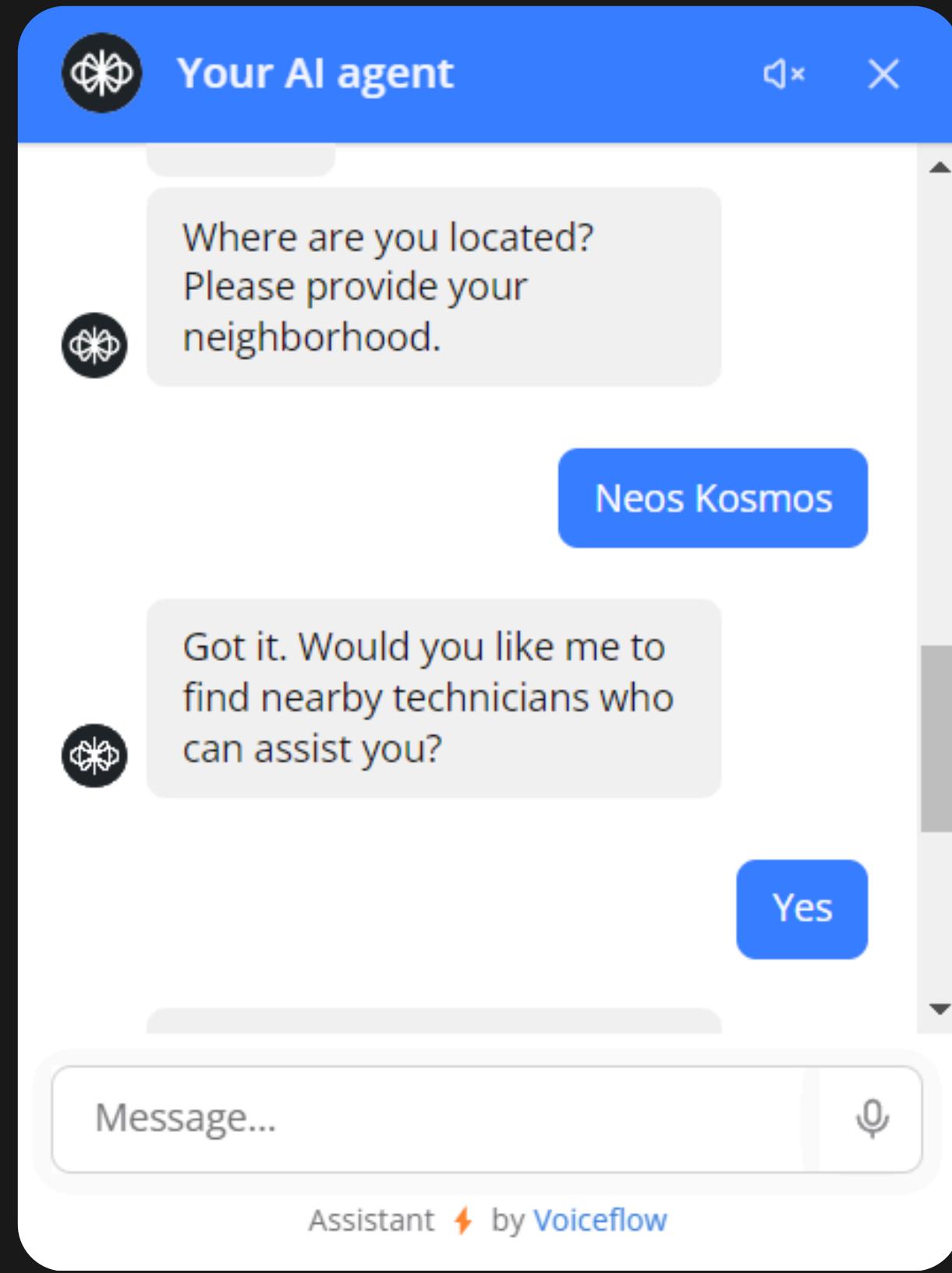
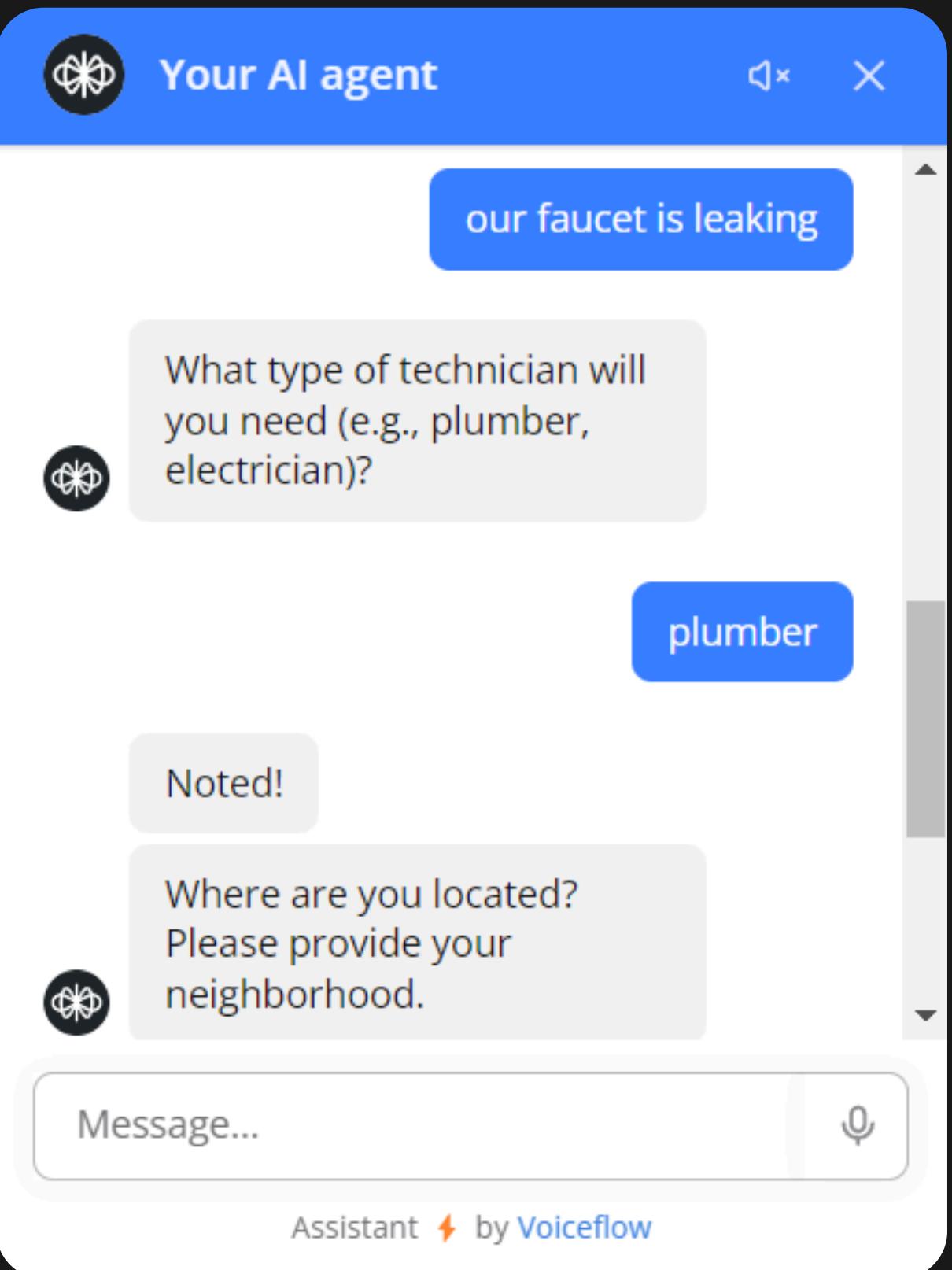
Dialogues

Issue reporting



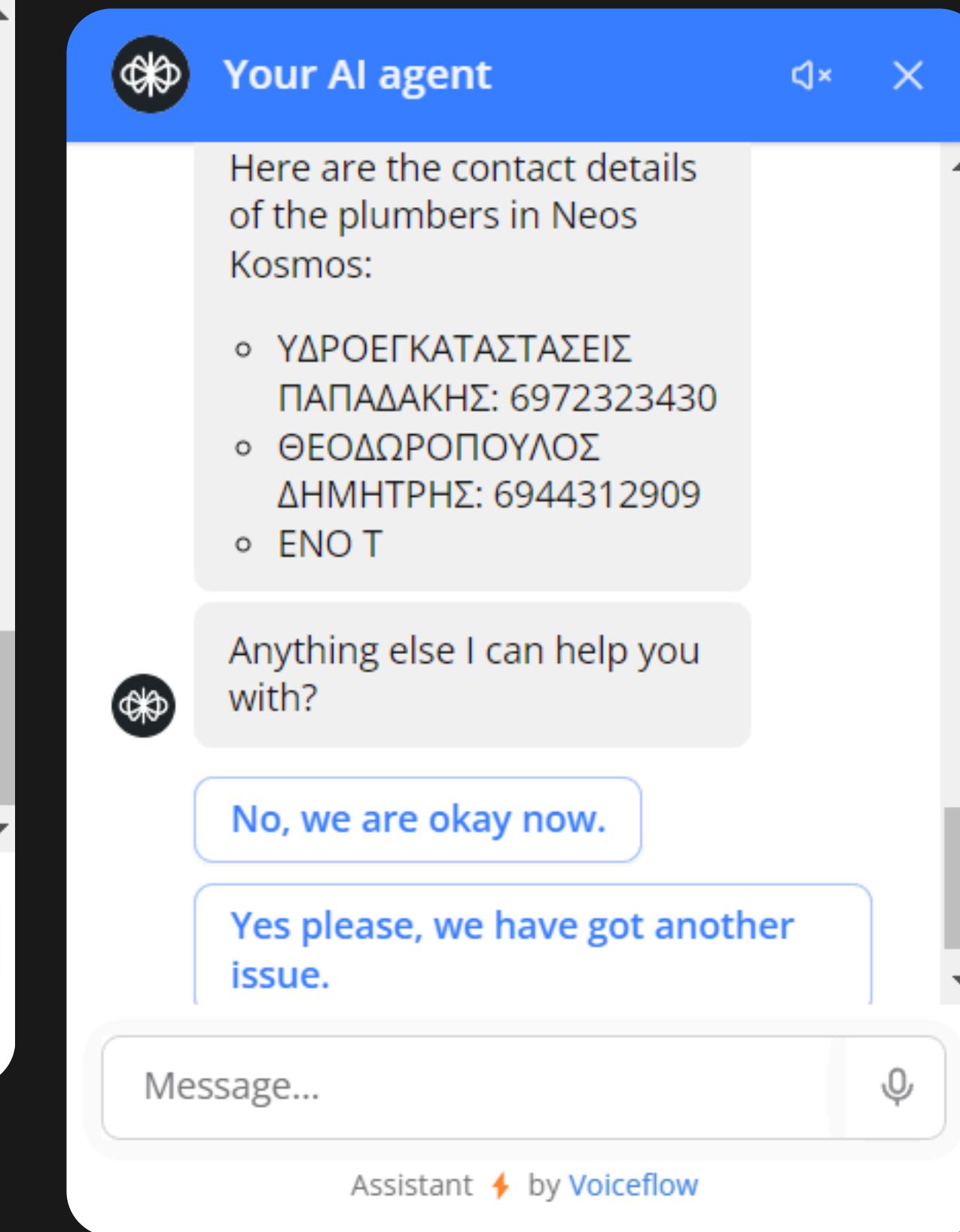
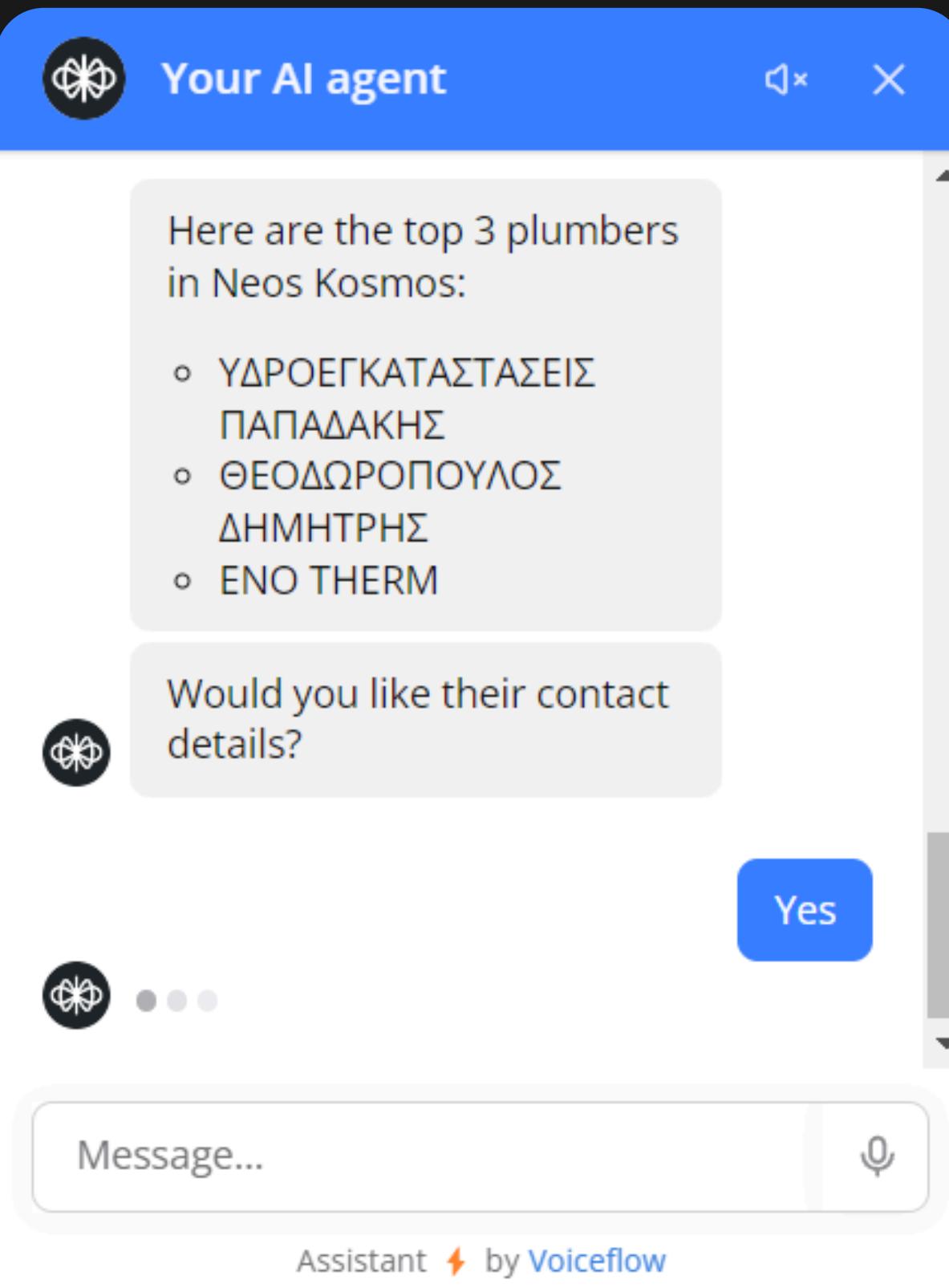
We choose to report
an issue to Homie

1



2

Mentioning technician kind and location



3

**Technician
suggesting +
contact details**

Agenda

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Video

Video

<https://drive.google.com/drive/folders/1WPRt5-JGewrRFSoYbx1bKfBcYqE6BE3X?usp=sharing>

Thank you!

Any questions?

