

# Project 06: Primates MVC

**Github repo of this project:**

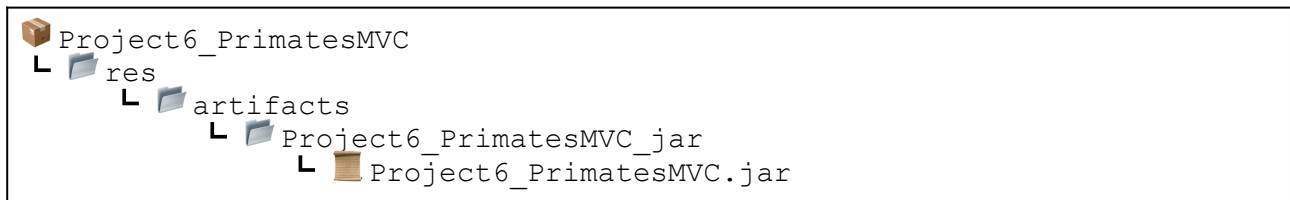
<https://github.com/jhan125/CS5004-5005>

## How to run this program

Check README.md or get detailed instructions with more screenshots:

[https://www.jetbrains.com/help/idea/compiling-applications.html#run\\_packaged\\_jar](https://www.jetbrains.com/help/idea/compiling-applications.html#run_packaged_jar)

You can also find the `.jar` file from this path:



## Screenshots of running my `.jar` file

### Tab Appearances

#### Tab1: Register for a new monkey

Primates Sanctuary

Register for a new monkey | Move an existing monkey | Treat an unhealthy monkey | Produce a monkey list

**To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)**

NOTICE:

All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.  
For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.  
For monkey's SEX, you must only choose from FEMALE or MALE.  
For monkey's SIZE, you must only choose from LARGE, MEDIUM, or SMALL.  
For monkey's WEIGHT, you must only enter POSITIVE double numbers.  
For monkey's AGE, you must only enter NON-NEGATIVE integer numbers.  
For monkey's FAVORITE FOOD, you must only choose from EGGS, FRUITS, INSECTS, LEAVES, NUTS, SEEDS, or TREE\_SAP.

drill  
male  
small  
  
  
eggs  
false

Register

## Tab2: Move an existing monkey

Primates Sanctuary

Register for a new monkeyMove an existing monkeyTreat an unhealthy monkeyProduce a monkey list

**To move a monkey, please choose the name of the monkey you want to move.**  
NOTICE:  
When monkeys first arrive at the sanctuary, they must first move to ISOLATION.  
Therefore, first-arrived monkeys are ALREADY in the ISOLATION and you don't need to move them again.  
If the monkey you want to move does not exist, the program will show you a warning message.  
If the monkey you want to move already exists in that housing, the program will show you a warning message.  
If you want to move a monkey to a full ISOLATION, the program will show you a warning message.  
If you want to move an unhealthy monkey to ENCLOSURE, the program will show you a warning message.

Sally

Move this monkey to ISOLATION

Move this monkey to ENCLOSURE

## Tab3: Treat an unhealthy monkey

Primates Sanctuary

Register for a new monkeyMove an existing monkeyTreat an unhealthy monkeyProduce a monkey list

**To move a monkey to ENCLOSURE, you have to treat this monkey and make it healthy.**  
NOTICE:  
To treat a monkey, choose the monkey by name you want to give medical treatment.  
If the monkey you want to treat is already healthy, the program will show you a warning message.

Sally

Treat this Monkey

## Tab4: Produce a monkey list

The screenshot shows the 'Produce a monkey list' tab selected in the 'Primates Sanctuary' application. The interface includes a title bar with standard window controls. Below the title bar, there are four tabs: 'Register for a new monkey', 'Move an existing monkey', 'Treat an unhealthy monkey', and 'Produce a monkey list'. The main content area contains the following text:

**To print a monkey list, you have to first choose the housing type for monkeys.**

NOTICE:  
If there's no monkey in that housing, the program will show you a warning message.

Click the button below to get an alphabetical list (by name) of all monkeys housed in the SANCTUARY.

Click the button below to get an alphabetical list (by name) of all monkeys housed in the ISOLATION.

Choose the specific species to get a list of all monkeys housed in that ENCLOSURE.  
For every enclosure, there's a list for each individual monkey that is currently housing there.  
For each individual monkey, the list includes their name, sex, and favorite food.

Below the text, there is a text input field containing the word 'drill' and a blue dropdown arrow icon on the right. At the bottom of the window, there is a button labeled 'Get all monkeys in the ENCLOSURE'.

## Sample Steps

### 1: Register for some new monkeys

Enter the fields following the correct order as instructed.  
You will see a window showing your successful registration.

The screenshot shows the 'Register for a new monkey' tab selected in the 'Primates Sanctuary' application. The interface includes a title bar with standard window controls. Below the title bar, there are four tabs: 'Register for a new monkey', 'Move an existing monkey', 'Treat an unhealthy monkey', and 'Produce a monkey list'. The main content area contains the following text:

**To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)**

NOTICE:  
All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.  
For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.  
For monkey's SEX, you must only choose from FEMALE or MALE.  
For monkey's SIZE, you must only choose from LARGE or SMALL.  
For monkey's WEIGHT, you must only enter POSITIVE.  
For monkey's AGE, you must only enter NON-NEGATIVE.  
For monkey's FAVORITE FOOD, you must only choose from FRUITS, LEAVES, or TREE\_SAP.

Below the text, there is a form with the following fields:

- Name: Amy
- Species: guereza
- Sex: female
- Size: small
- Weight: 4
- Age: 4
- Favorite Food: fruits
- Healthy: true

At the bottom of the form, there is a button labeled 'Register'.

An 'Information' dialog box is displayed in the center of the screen, showing a small icon of a monkey and the text: 'You registered a monkey successfully!'. The dialog box has an 'OK' button.

Or you will see a window showing a warning because of your invalid input.

Primates Sanctuary

Register for a new monkey | Move an existing monkey | Treat an unhealthy monkey | Produce a monkey list

**To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)**

NOTICE:

All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.  
For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.  
For monkey's SEX, you must only choose from FEMALE or MALE.  
For monkey's SIZE, you must only choose from SMALL, MEDIUM, LARGE.  
For monkey's WEIGHT, you must only enter a number.  
For monkey's AGE, you must only enter a number.  
For monkey's FAVORITE FOOD, you must only choose from EGGS, BANANA, APPLE, ORANGE, MANGO, PINEAPPLE, WATERMELON, CUCUMBER, CARROT, BROCCOLI, SPINACH, KALE, PASTA, RICE, BREAD, MEAT, FISH, MILK, JUICE, SODA, COFFEE, TEA, WINE, WHISKY, VODKA, RUM, BRANDY, CIGARETTES, ALCOHOL, DRUGS, WEAPONS, TOOLS, CLOTHING, ACCESSORIES, OTHER.

Amy

guereza

female

small

4

5

eggs

false

Register

Warning

This monkey already exists in Sanctuary, so it can't be added.

OK

## 2: Move an existing monkey

Choose the monkey you want to move.

Primates Sanctuary

Register for a new monkey | Move an existing monkey | Treat an unhealthy monkey | Produce a monkey list

**To move a monkey, please choose the name of the monkey you want to move.**

NOTICE:

When monkeys first arrive at the sanctuary, they must first move to ISOLATION.  
Therefore, first-arrived monkeys are ALREADY in the ISOLATION and you don't need to move them again.  
If the monkey you want to move does not exist, the program will show you a warning message.  
If the monkey you want to move already exists in that housing, the program will show you a warning message.  
If you want to move a monkey to a full ISOLATION, the program will show you a warning message.  
If you want to move an unhealthy monkey to ENCLOSURE, the program will show you a warning message.

✓ Amy

Betty

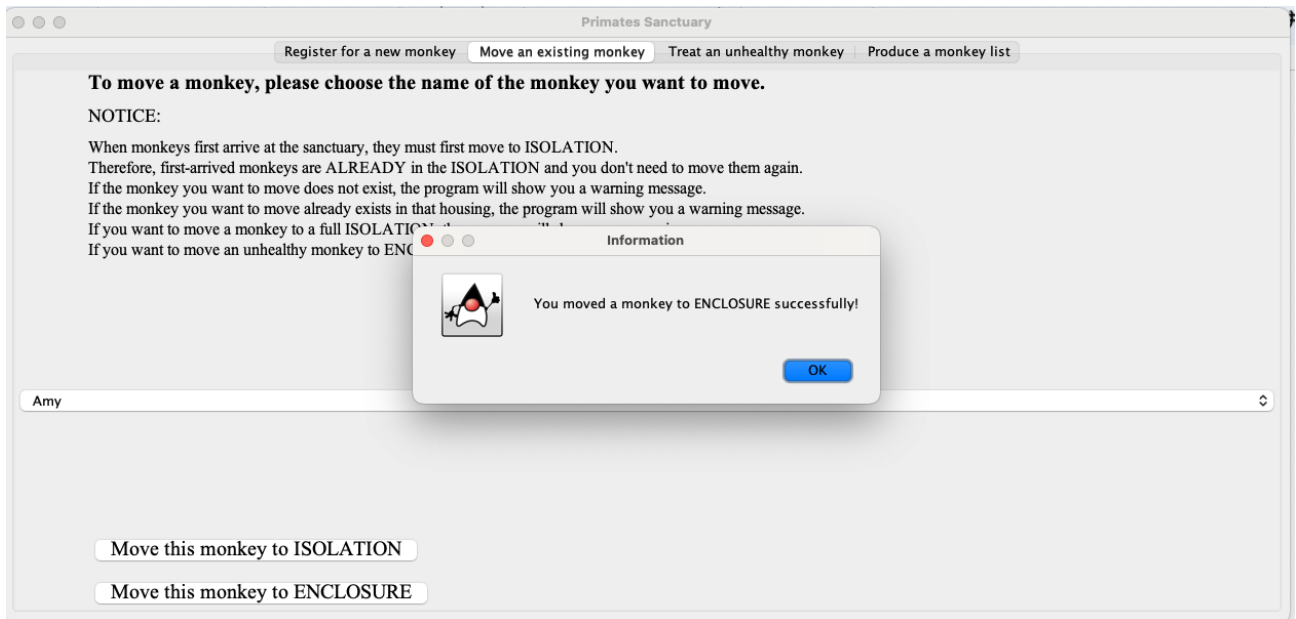
Sally

haha

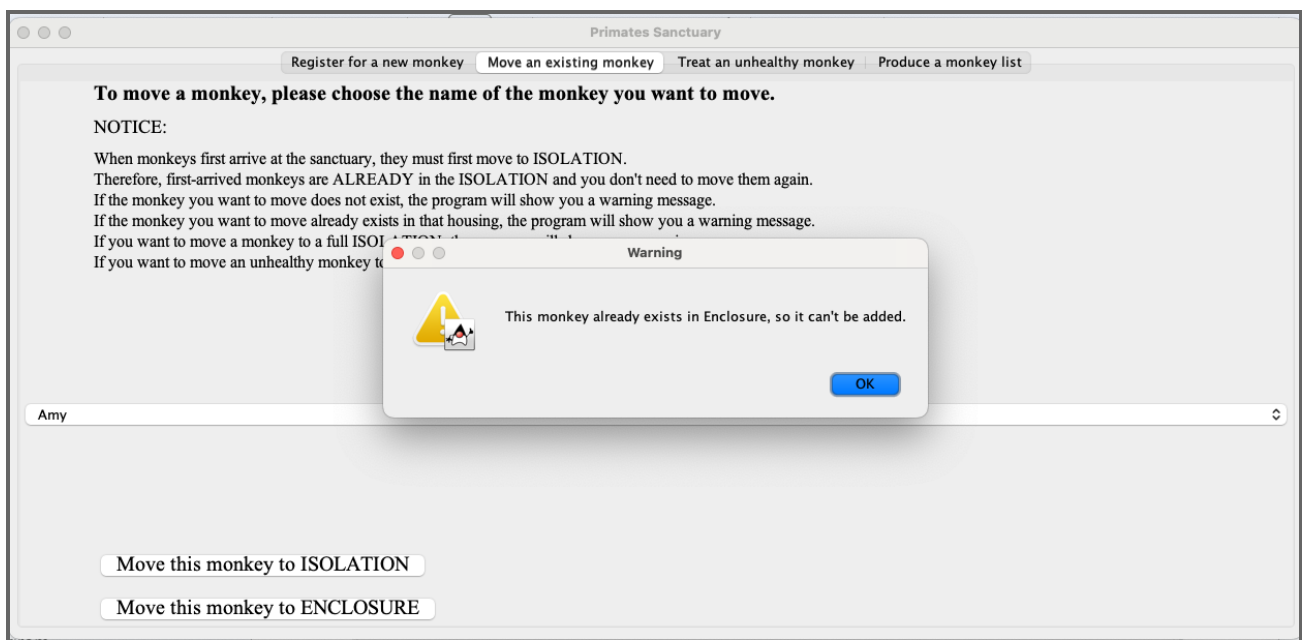
Move this monkey to ISOLATION

Move this monkey to ENCLOSURE

You will see a window showing your successful move.



Or you will see a window showing a warning because of your invalid action.

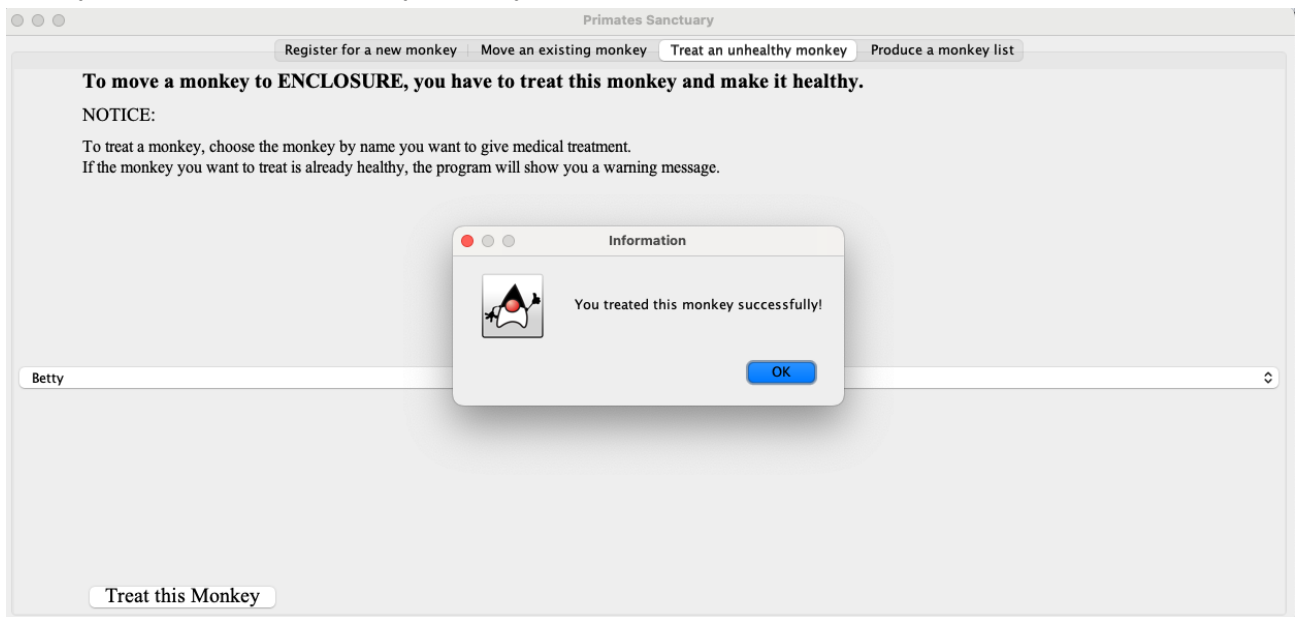


### 3: Treat an unhealthy monkey

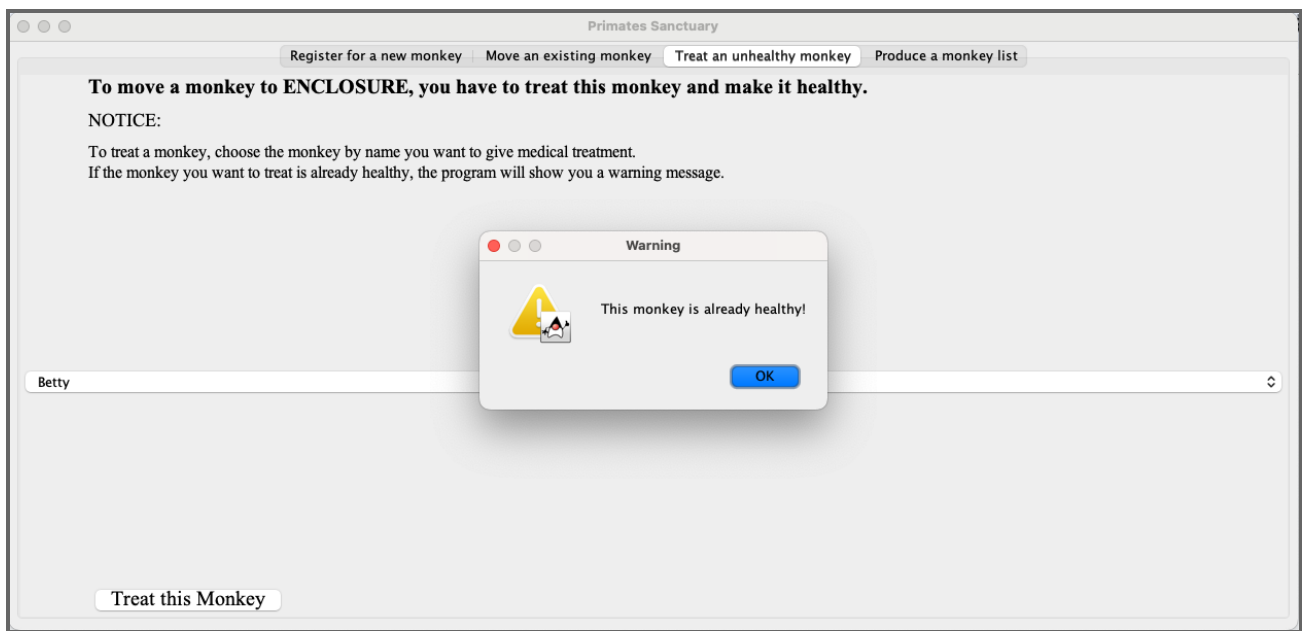
Choose an unhealthy monkey to treat.

You will see a window showing your successful treatment.

Then you can move this healthy monkey to Enclosure



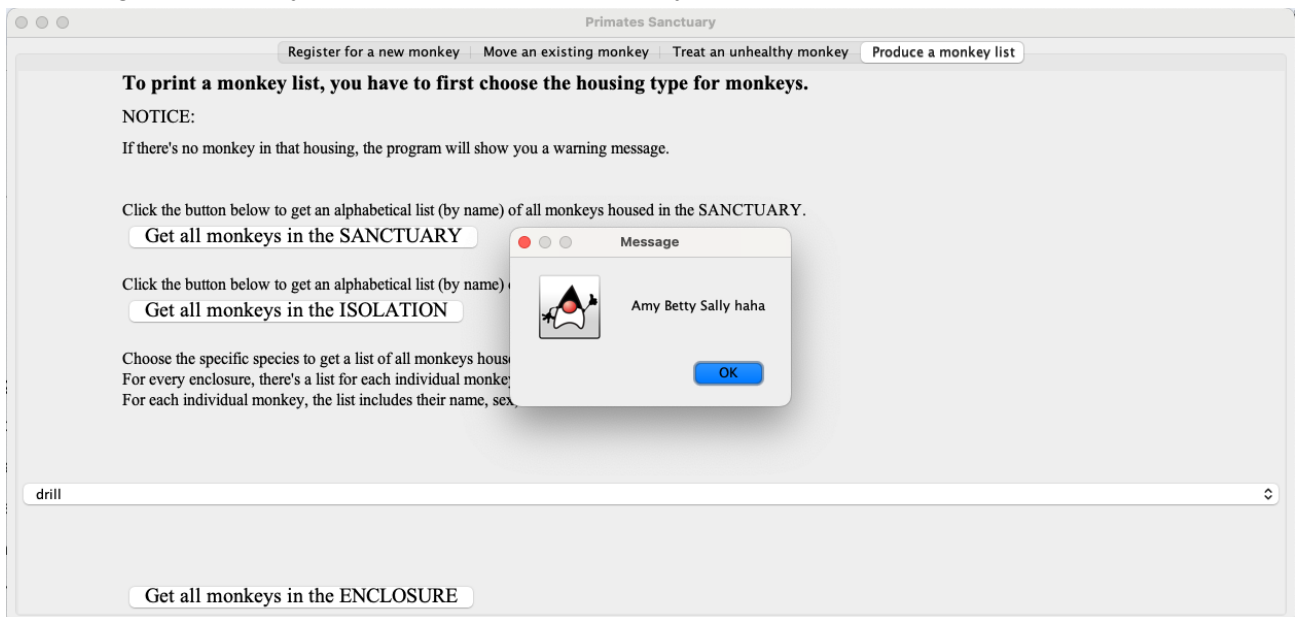
Or you will see a window showing a warning because of your invalid action.



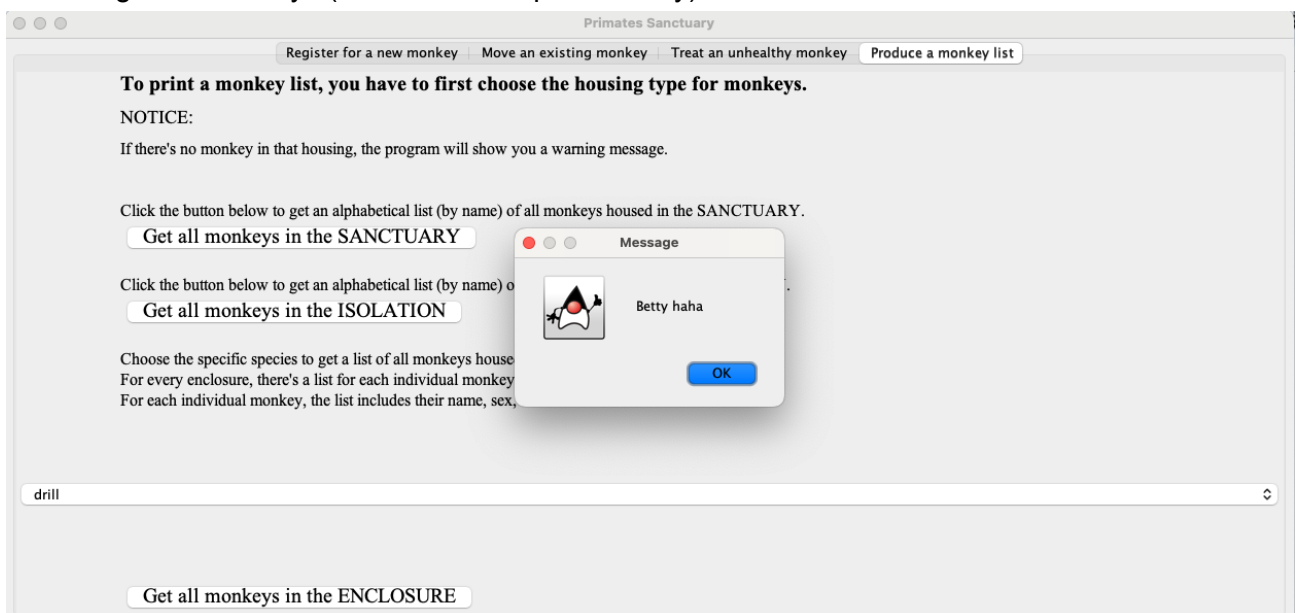
## 4: Produce a monkey list

Get a monkey list based on housing type.

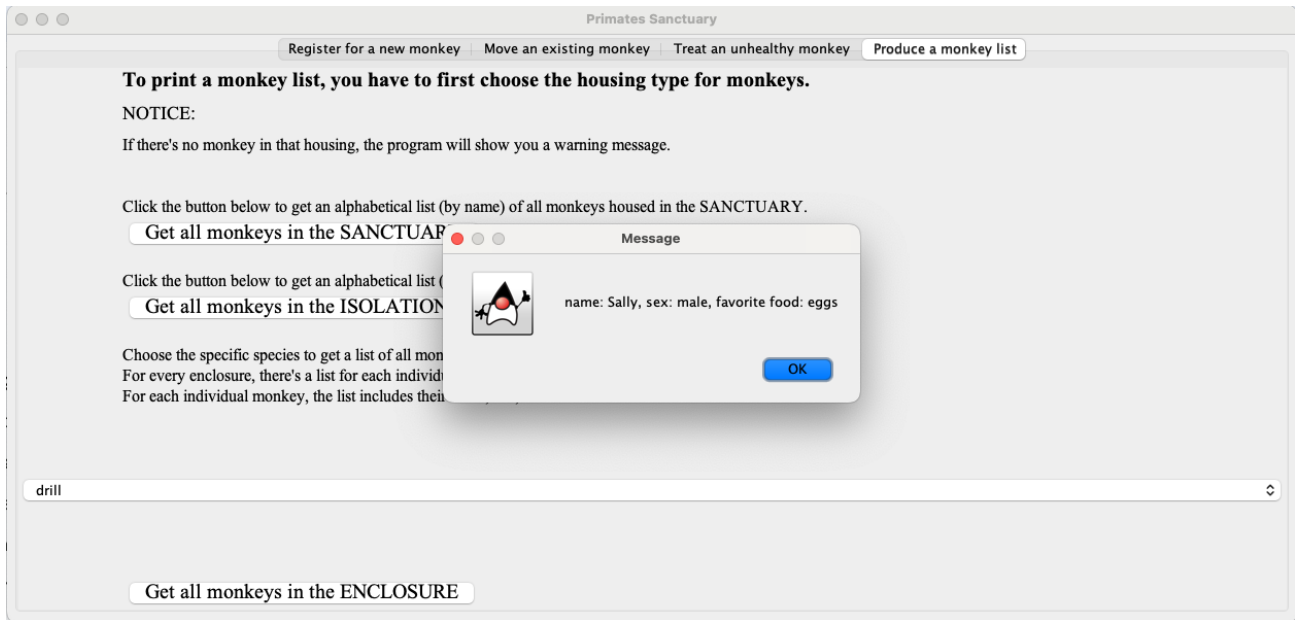
You can get all monkeys (names listed alphabetically) in the SANCTUARY.



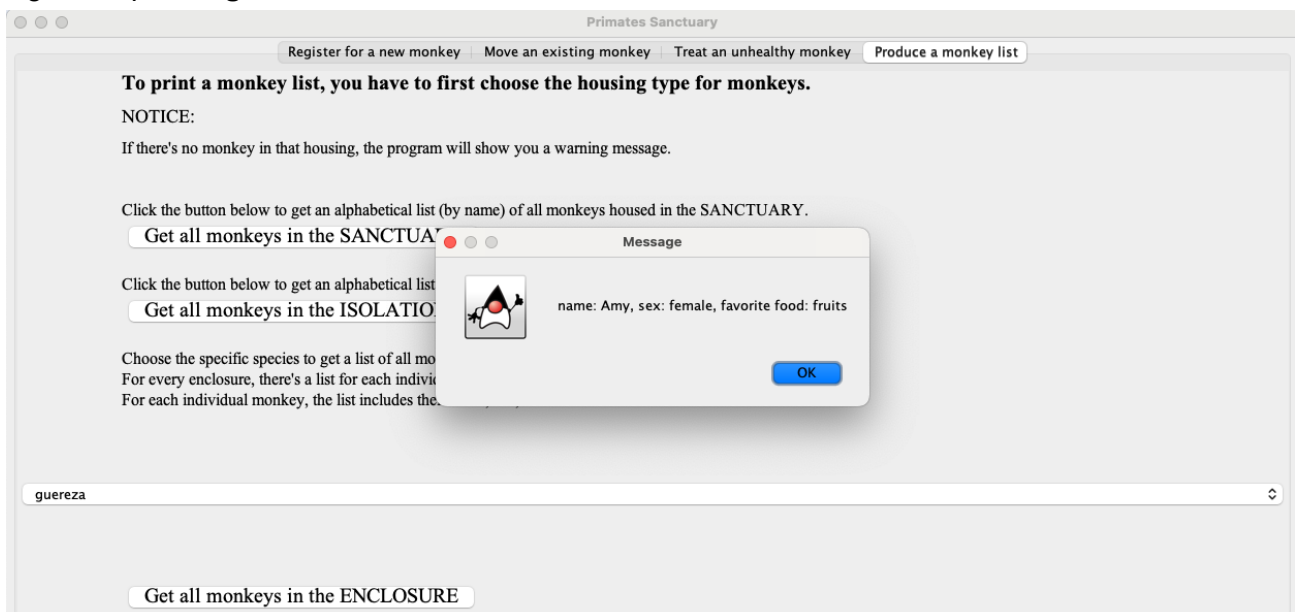
You can get all monkeys (names listed alphabetically) in the ISOLATION.



You can choose a species and get all monkeys (with the required information) in the ENCLOSURE.  
e.g. For Species **drill**



e.g. For Species **guereza**





Or you will see a window showing a warning because this Enclosure has no monkey.  
e.g. For Species **howler**

