coding

4 MIGRANT WOMEN RETURNERS

Hotel and Restaurant Management Software

BEGINNER

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4 MIGRANT WOMEN RETURNERS

How does SCRATCH work?

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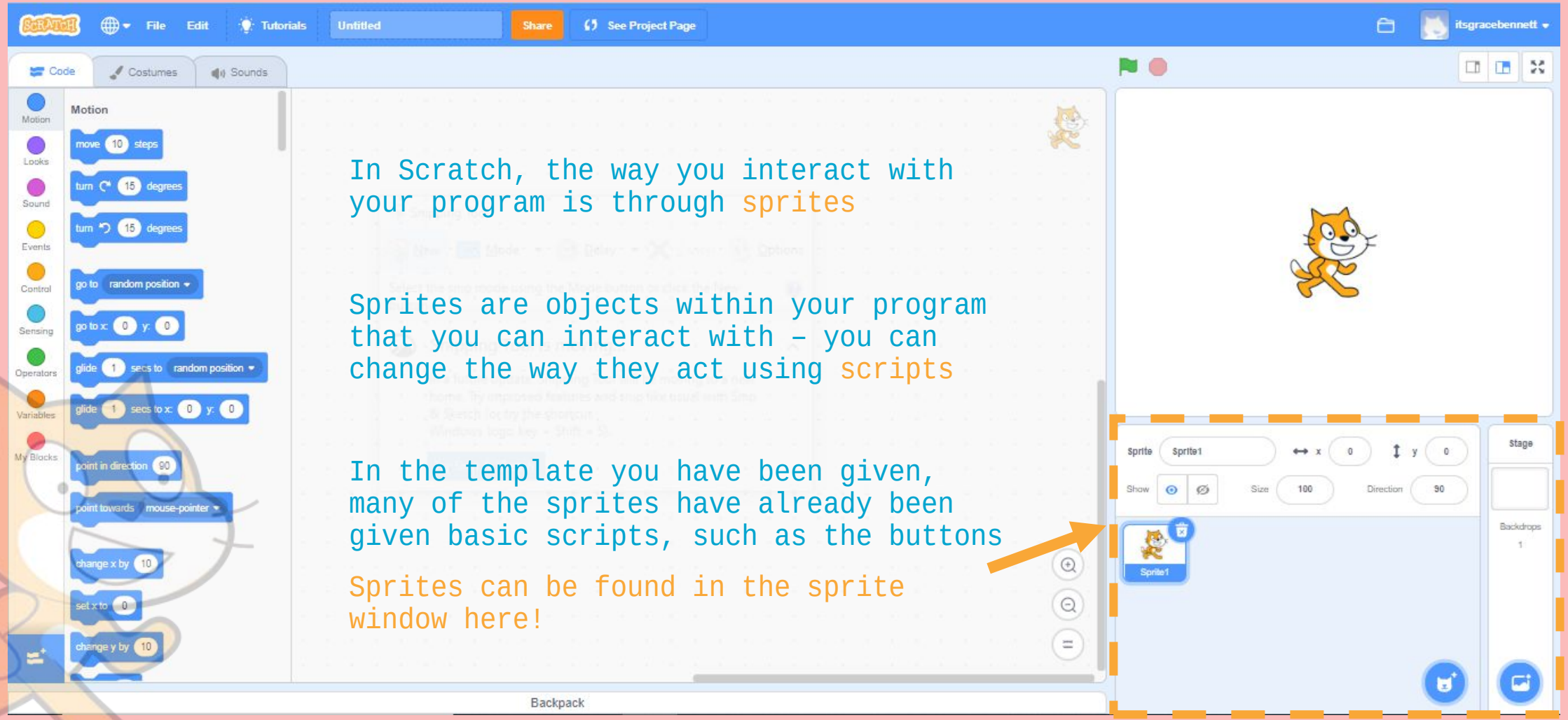

How does SCRATCH work?

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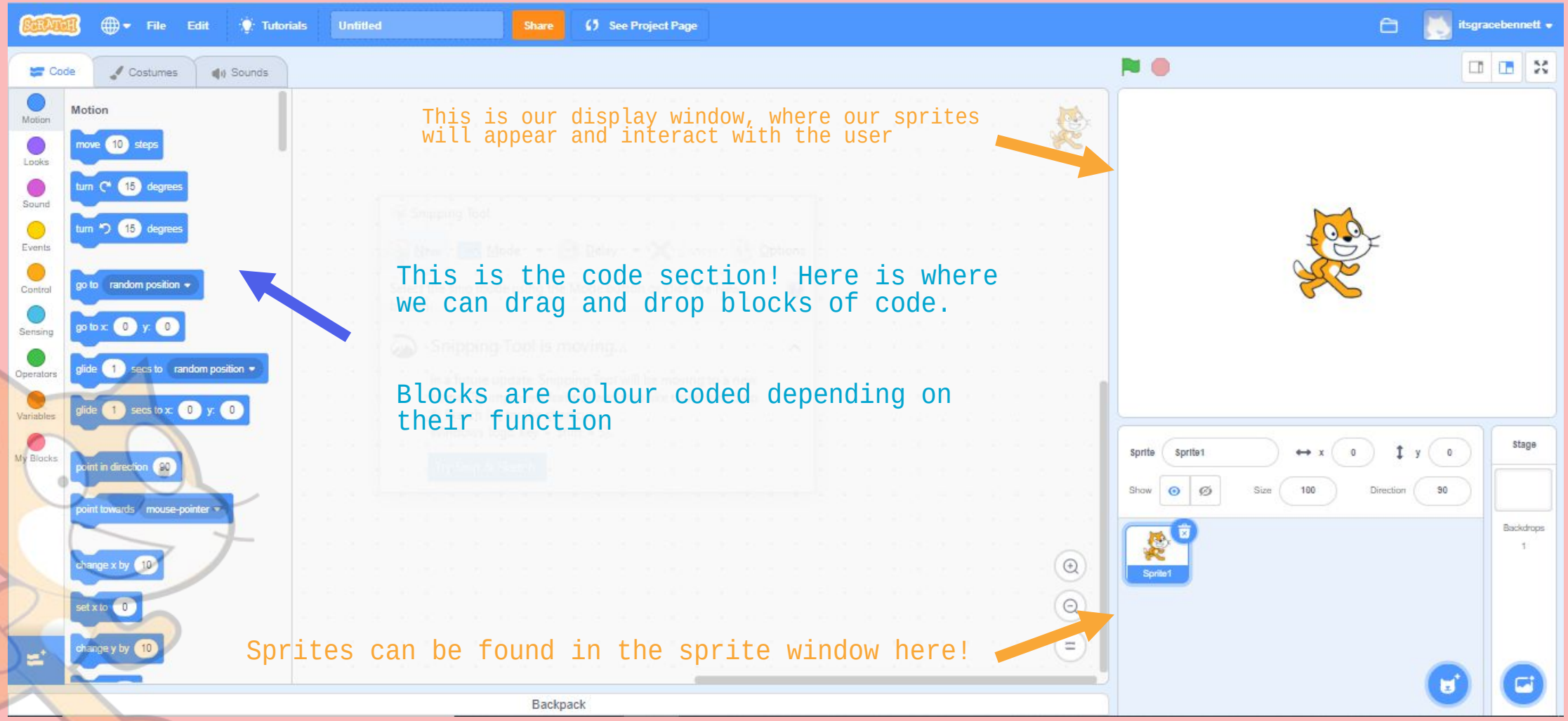

Activity scenario summary:

In this example we will code a project, which replicates a Hotel Front Desk Management Software System used by staff working at the front desk and in customer service.

Upon completion of this activity the participants would have built a real working software which allows them to

- View Available Rooms
- Create Occupied Rooms List
- Check a customer in & out of a Room
- Make bills for any customer/room
- Add additional services to customer room such as Breakfast, Dinner, Minibar etc
- View ongoing customer account

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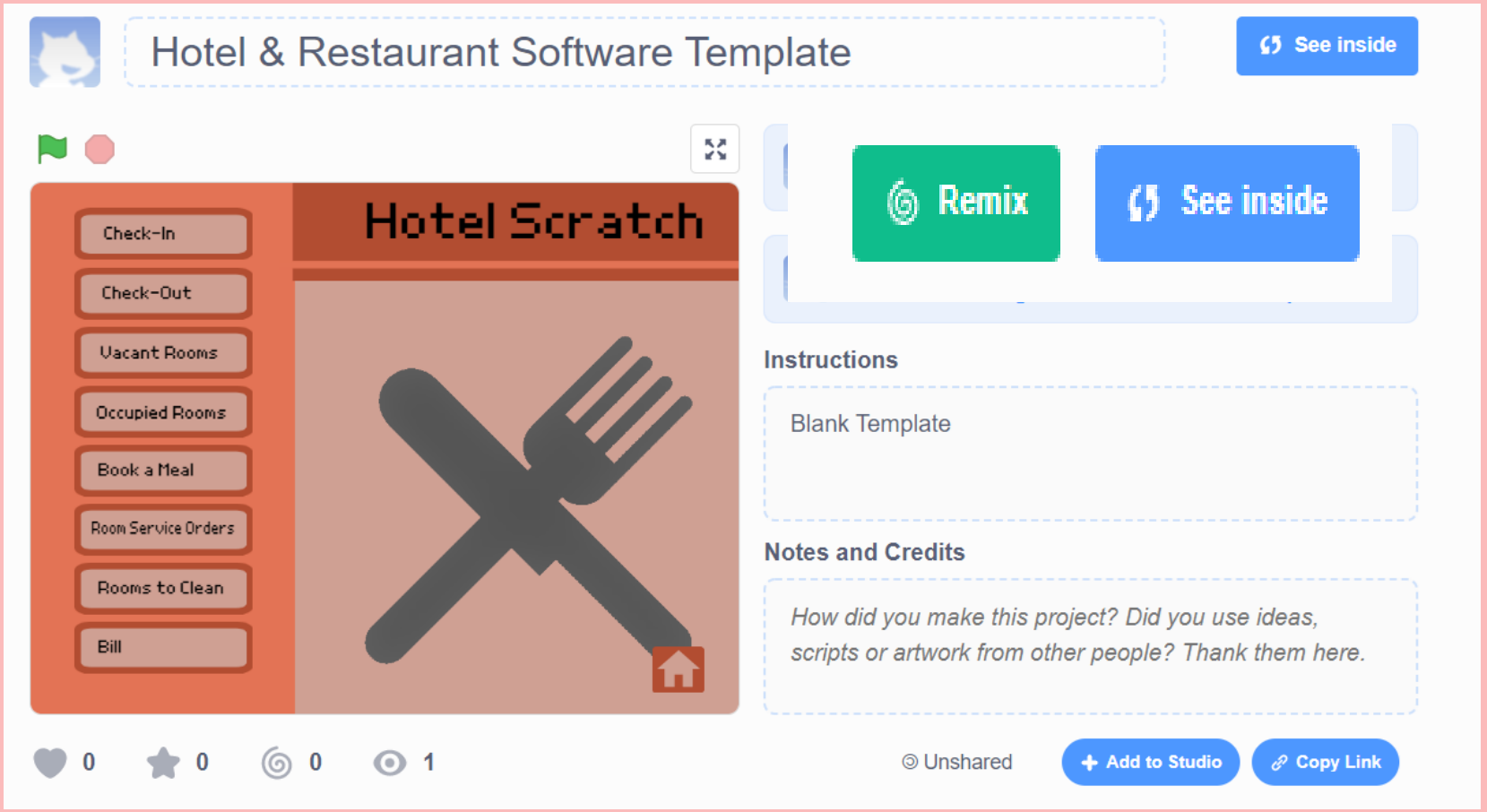

Once you have logged into Scratch…

Click https://scratch.mit.edu/projects/649271982 to access the template to our project!

Click Remix to get started with your project

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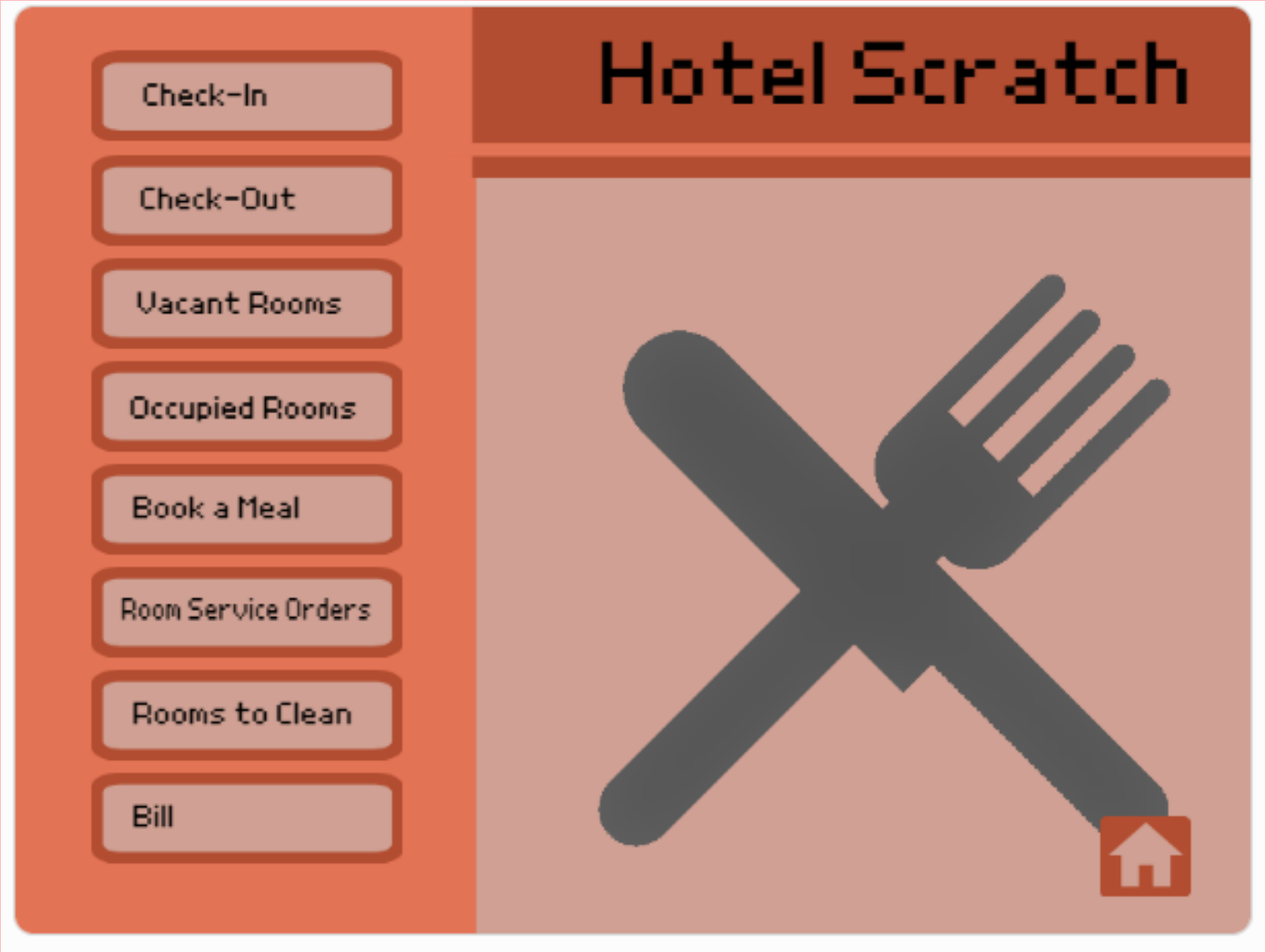
The menu:

This is the menu! In the beginner section, we will be adding functionality to the first 4 buttons.



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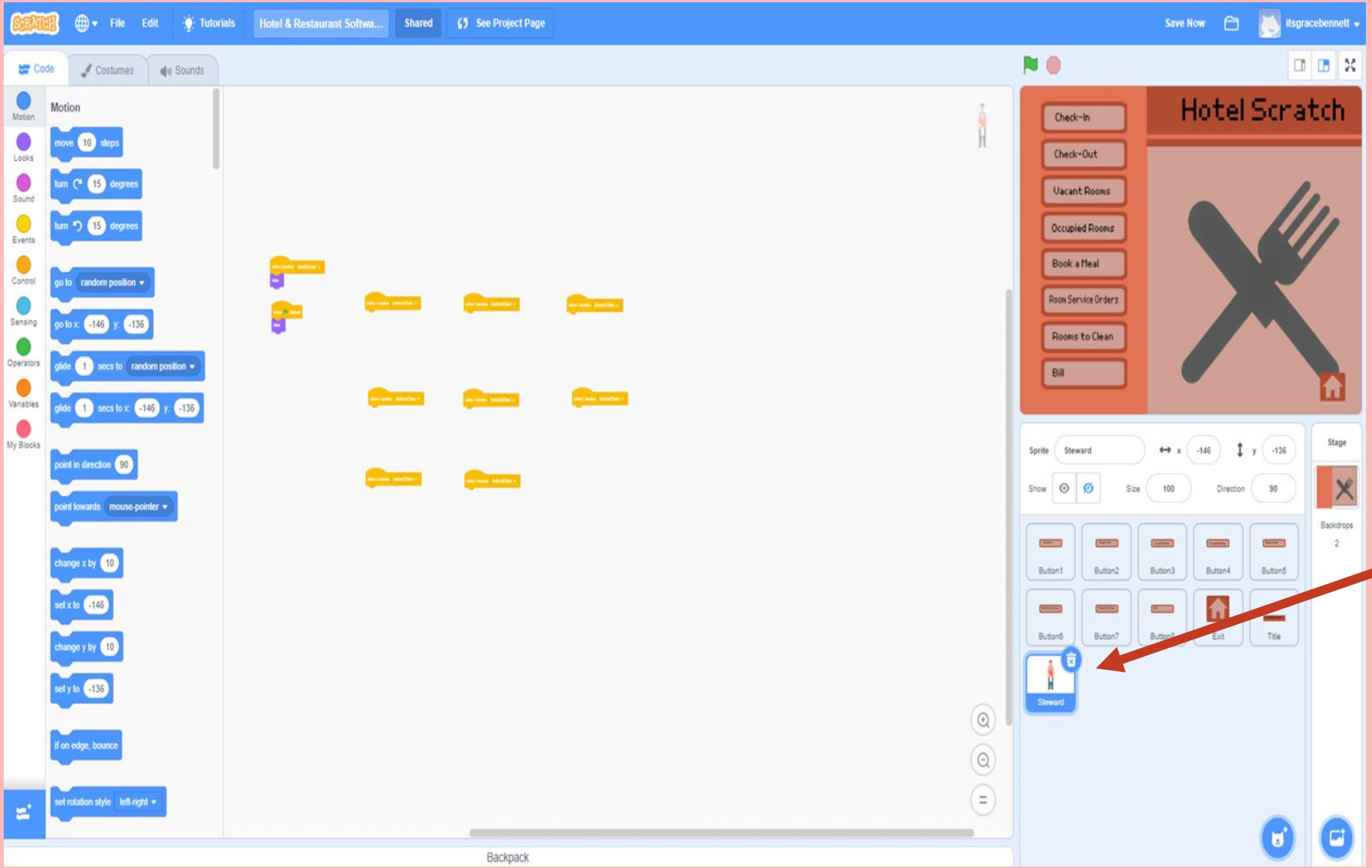

The window should look something like this!

Make sure you have selected the Steward sprite.

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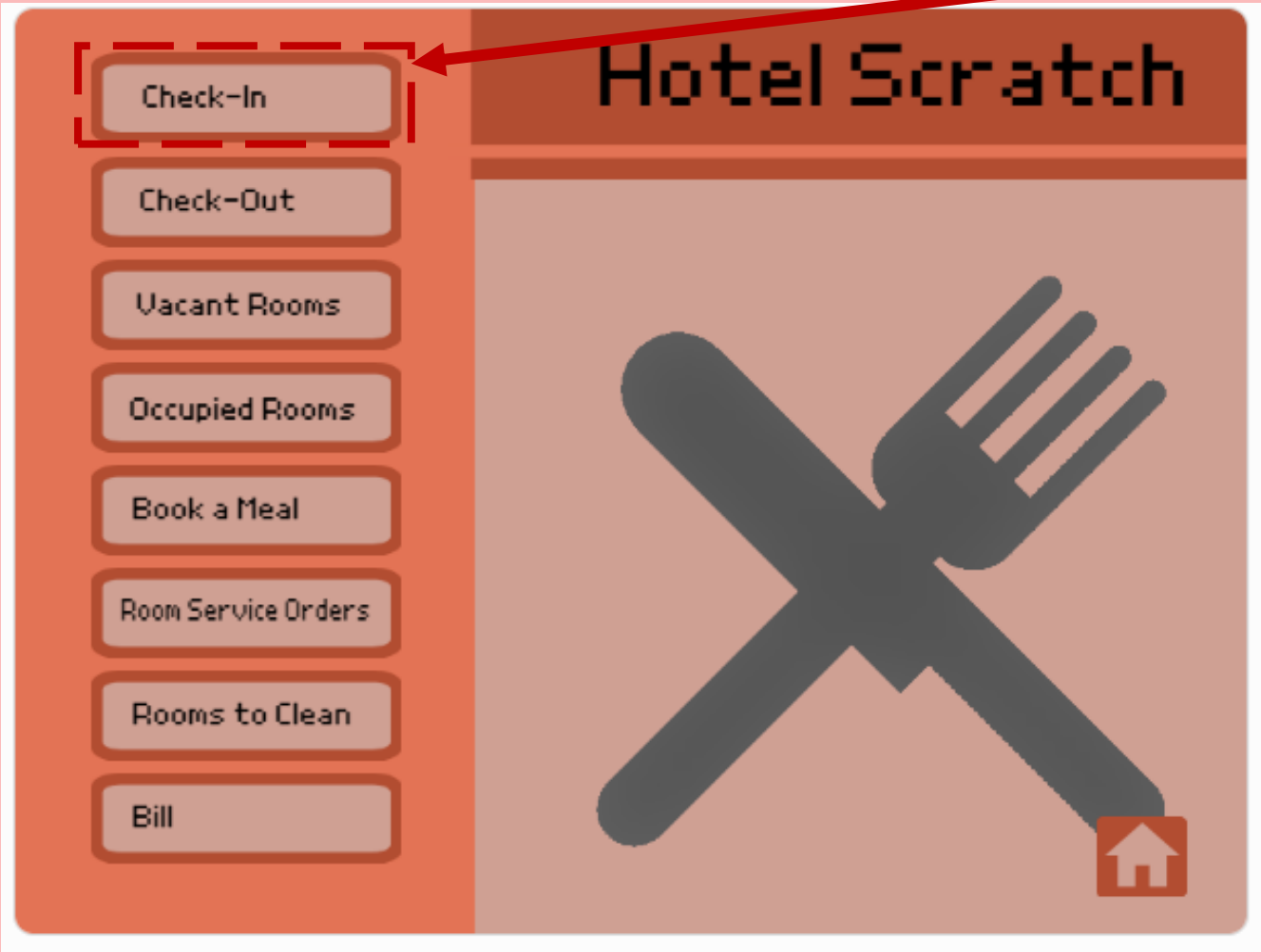
Check-In



This button will allow the user to check into an available room.

It will show them a list of available rooms and be asked which one they would like to enter.

If they select an available room, it will be moved to the occupied rooms list.

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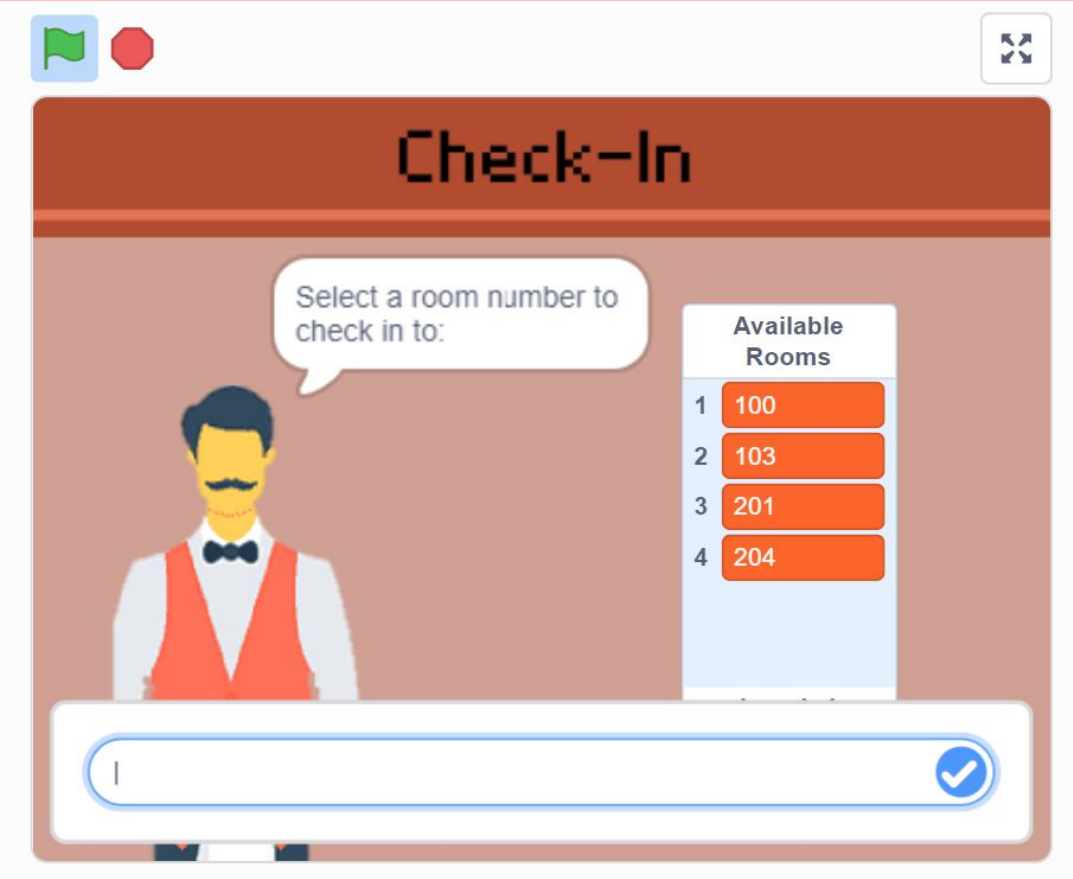
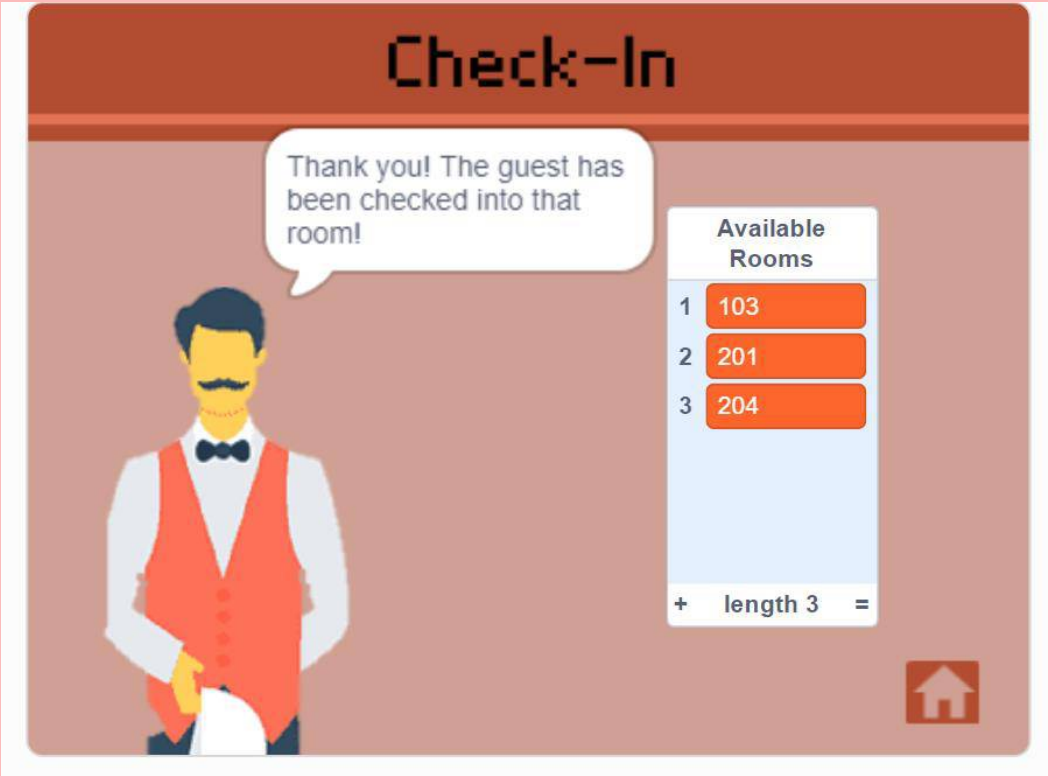
What it will look like…





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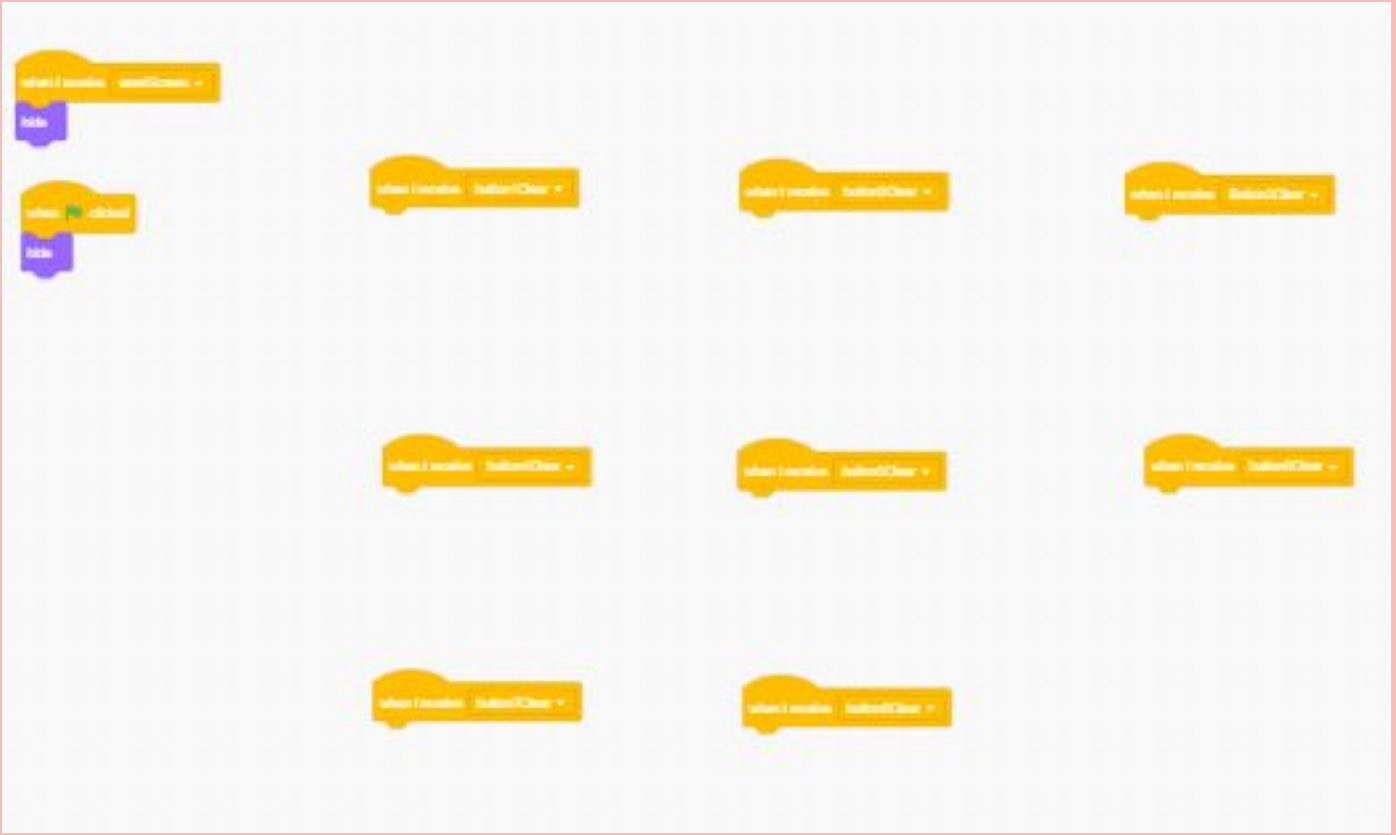
First look…

- When we first open the steward sprite it should look like this
- All of the code for check-in will be attached to button1Clear block.
- This means that when the button is clicked ONLY the code for product entry will run.



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Step 1

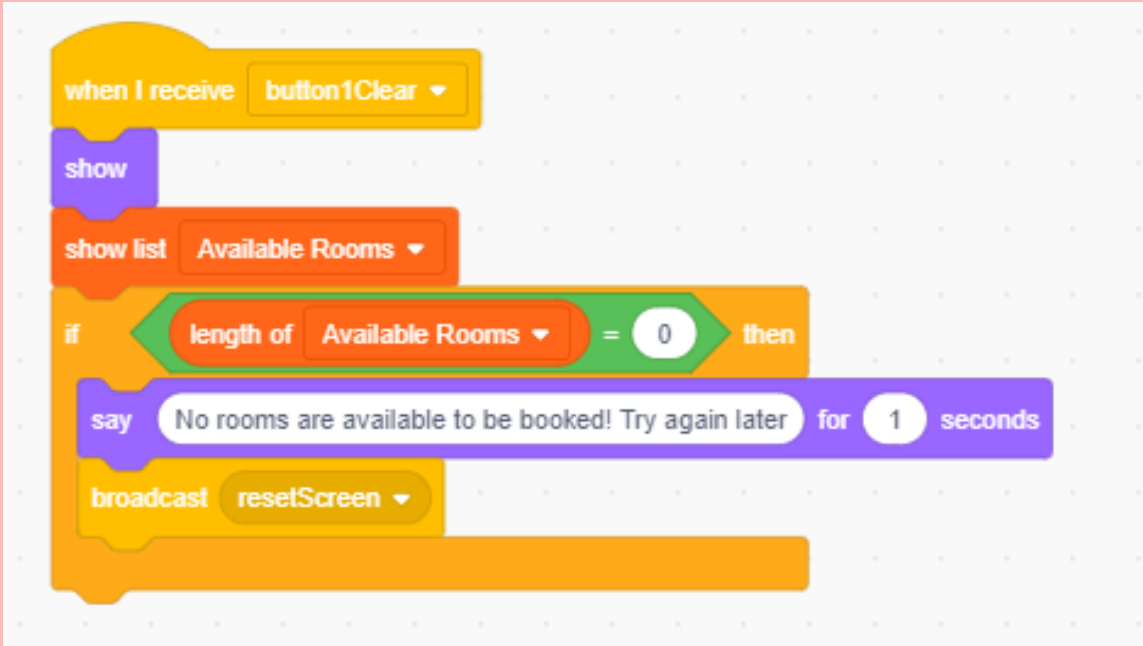
Once ‘Check-in’ is pressed

When the button is clicked, this code will run, and the screen will be cleared.

We show the list of available rooms on the screen

Using an IF THEN block, we check if there are any available rooms.

If the list is empty, we send them back to the main menu.



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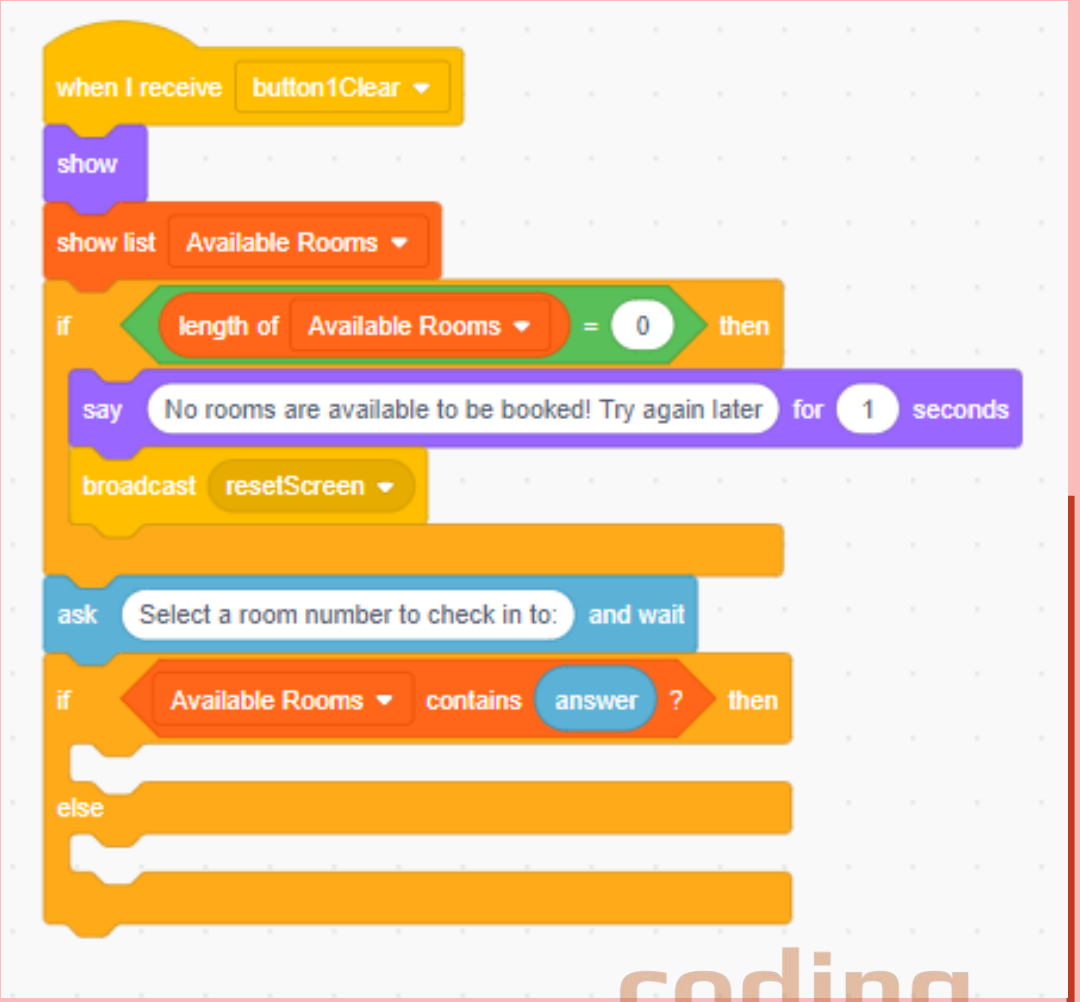
Step 2

We ask the user which room they would like to check into

Using an IF THEN block, we check if the room they entered is available



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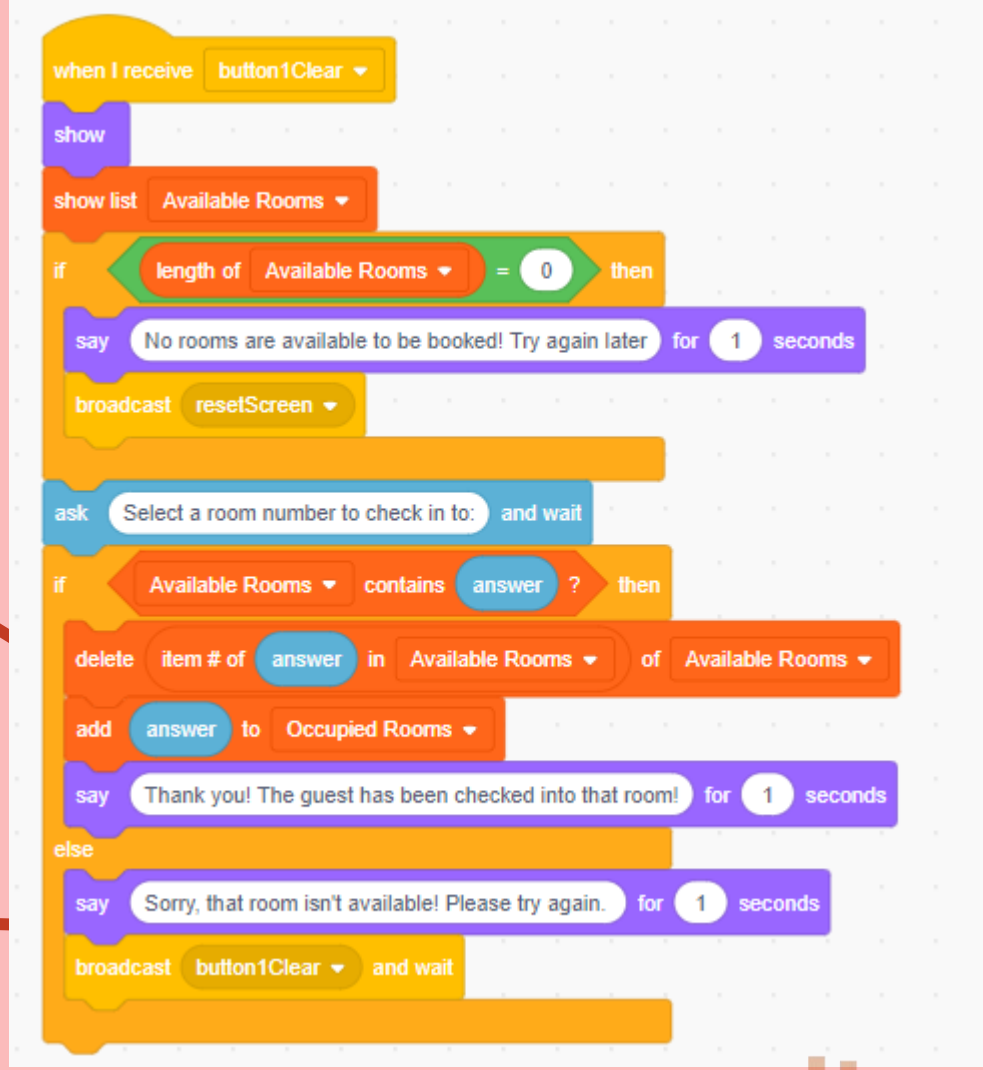
Step 3

If the room was available, then we remove the room from the Available Rooms list and add it into the Occupied Rooms list

Otherwise, we display an error message and return them to the start



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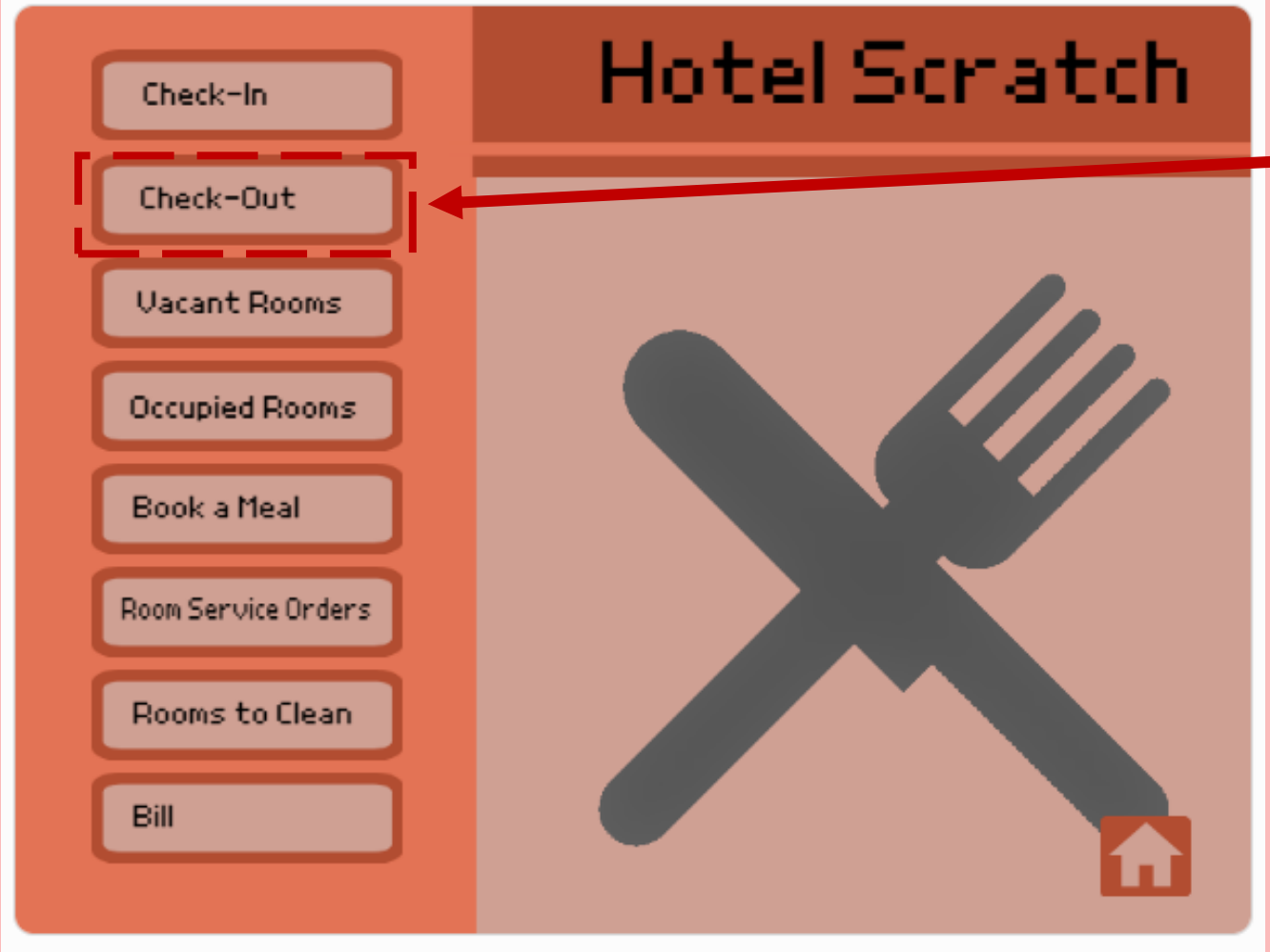
Check-Out



This button will allow the user to check out of their occupied room.

We will check if there are any rooms to check out of, and then ask the user which room they would like to check out of.

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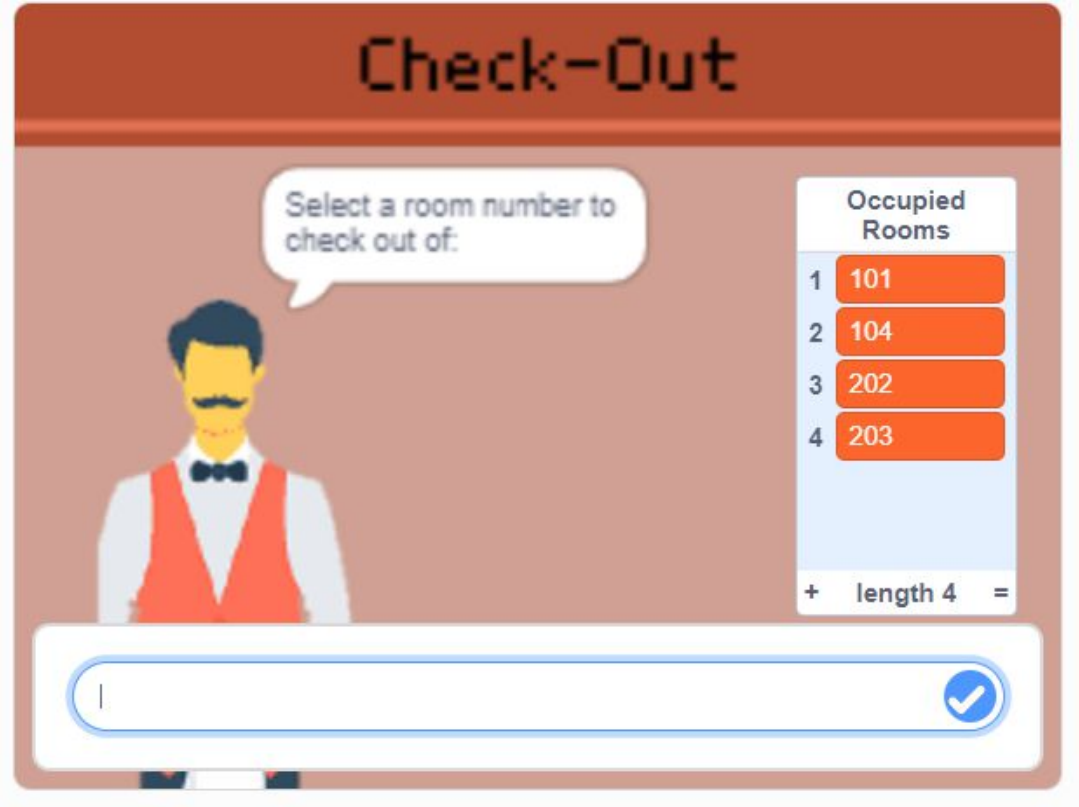
What it will look like…



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Step 1

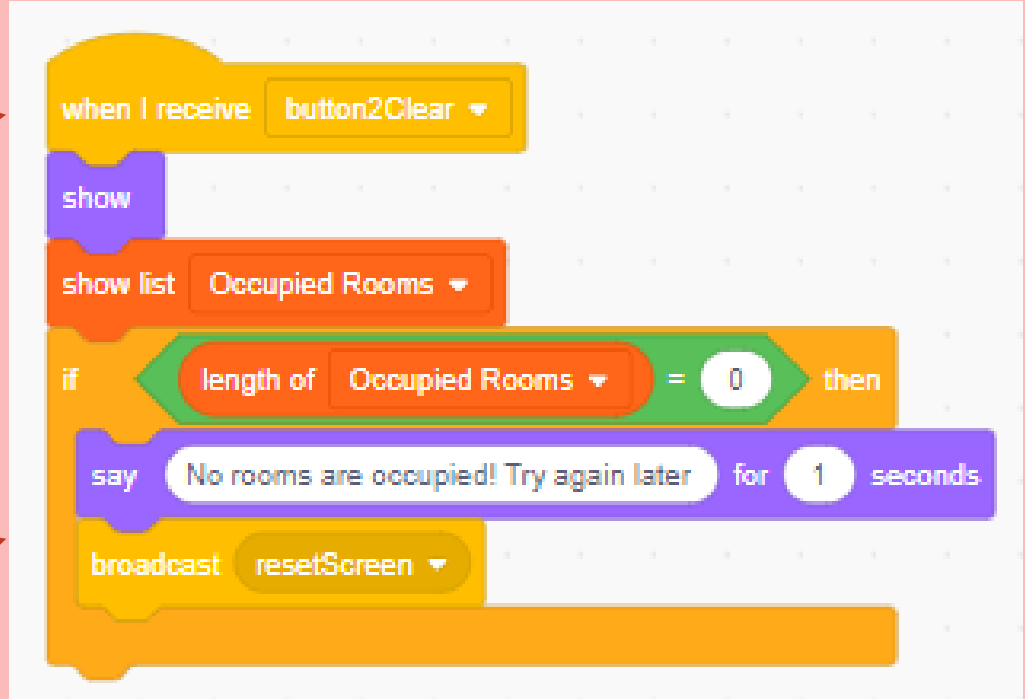
Once ‘Check-out’ is pressed

When the button is clicked, this code will run, and the screen will be cleared.

We show the list of occupied rooms on the screen

Using an IF THEN block, we check if there are any occupied rooms.

If the list is empty, we send them back to the main menu.



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Step 2

Ask the user which room they would like to check out of.

Then have an IF ELSE block to check whether the user's room exists within the Occupied Rooms list

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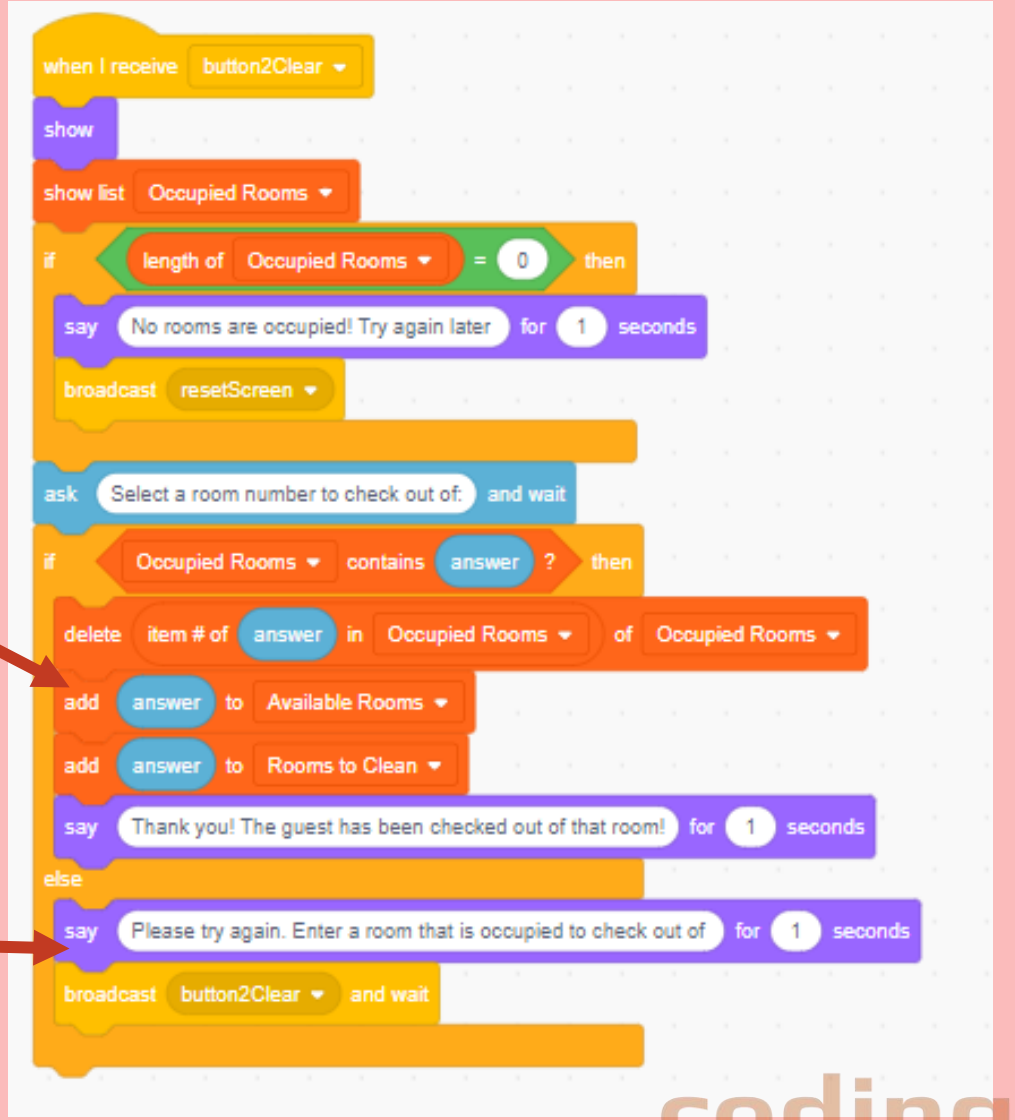
Step 3

If there is a room to check out, we delete that room from Occupied Rooms and add that room number into the ‘Available Room’ and ‘Rooms to Clean’ list

Otherwise, we display an error message and return them to the start



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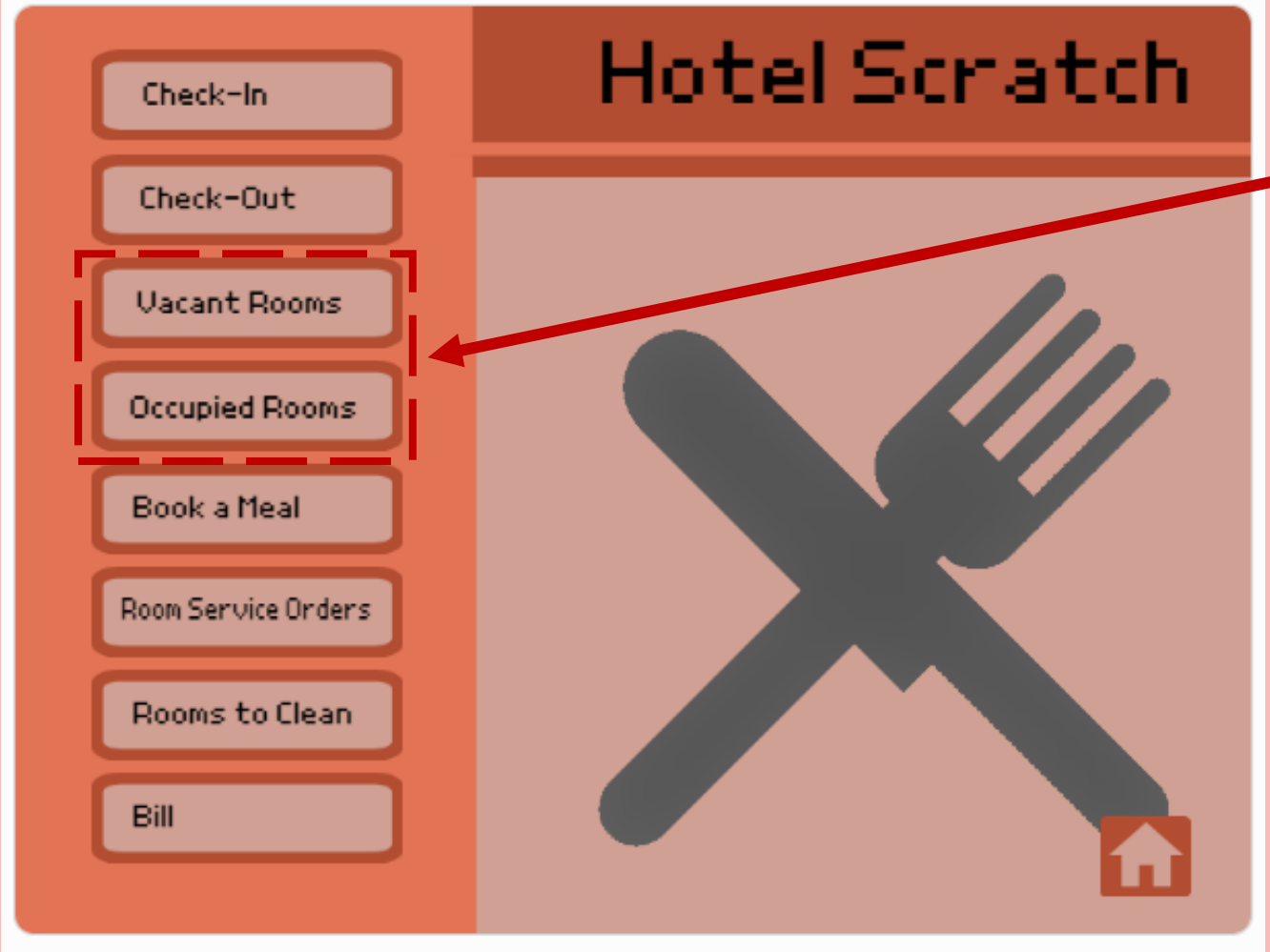
Viewing vacant and occupied rooms



Finally, these two buttons are very straight forward.

All these will do is show lists of the Vacant and Occupied Rooms

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What it will look like…

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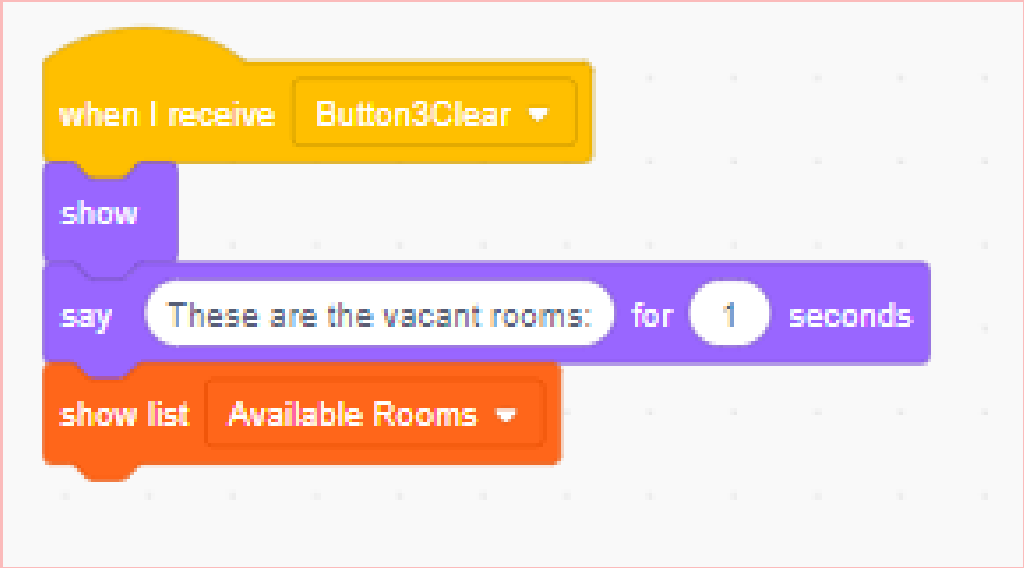
Step 1

Once ‘Vacant Rooms’ is pressed

This code will show the list of available rooms



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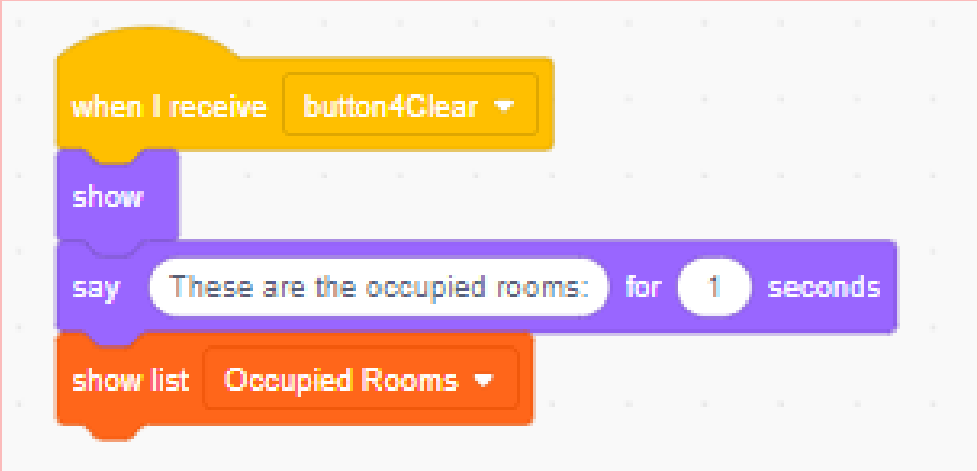
Step 2

Once ‘Occupied Rooms’ is pressed

This code will show the list of occupied rooms



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You have now ready to move onto the intermediate section!