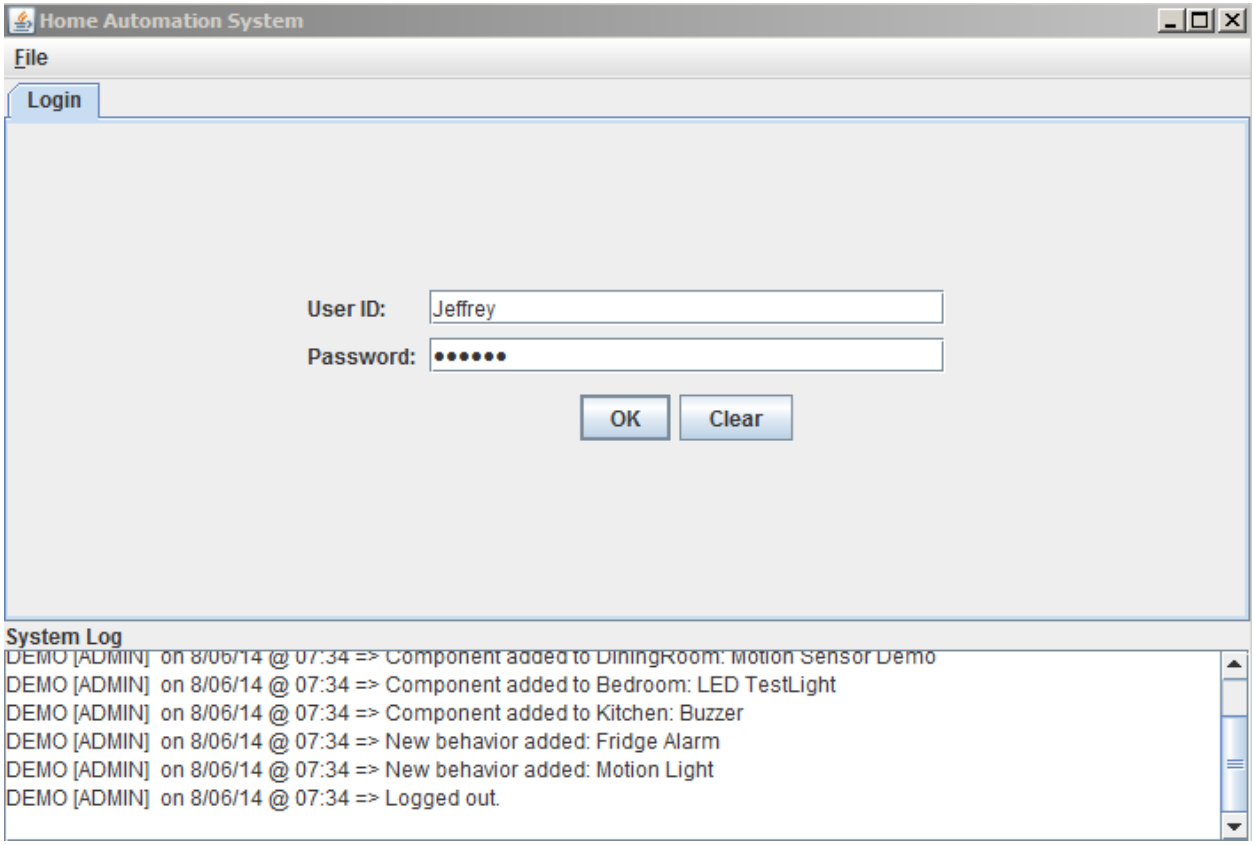
Acceptance Test Cases

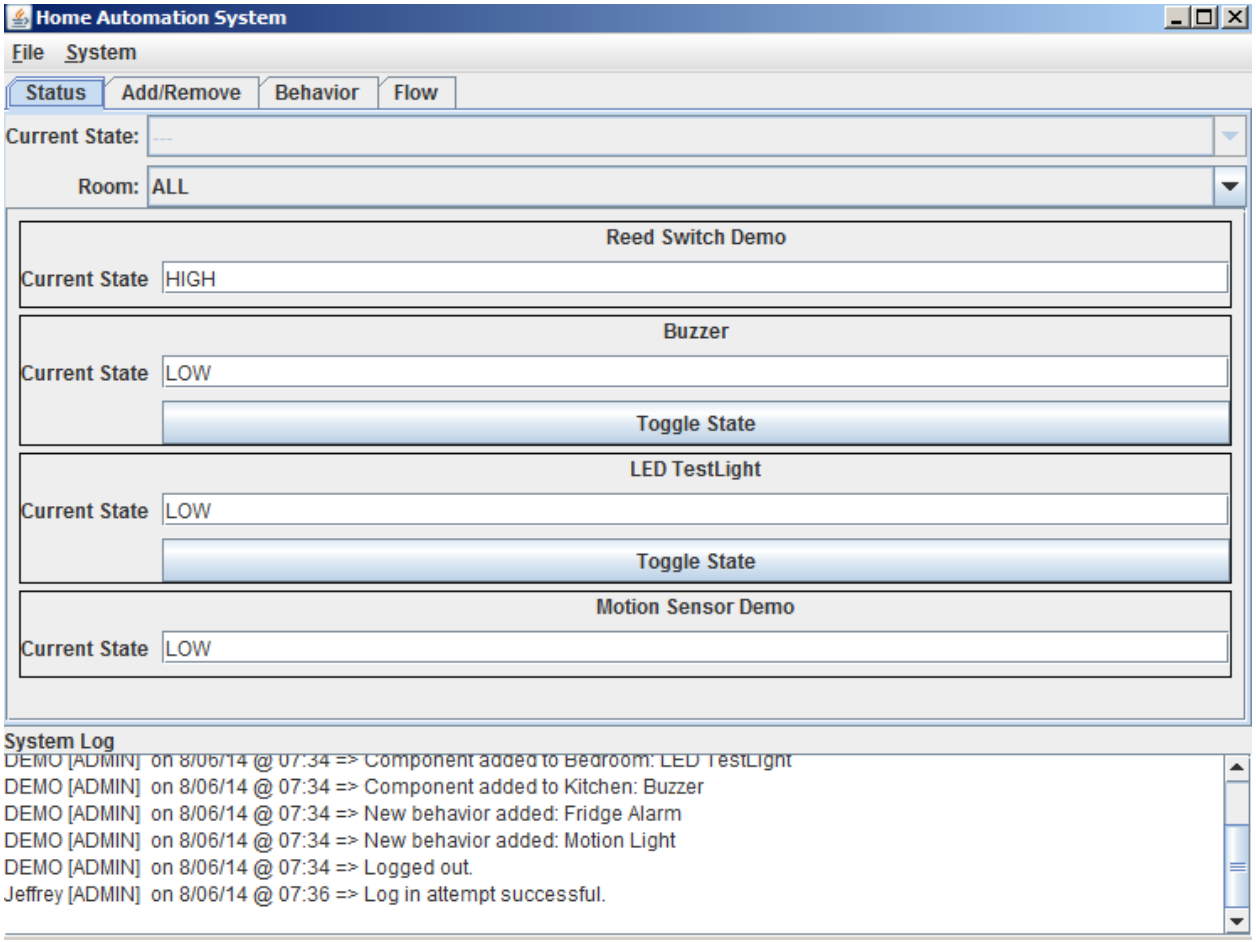
Logging In

When the software beings it displays the user login panel. Here the user types in their login information, username and password. If the information is verified the user is then led to the Status screen. If the user enters incorrect information a dialog box appears to show the user they entered the incorrect username or password.



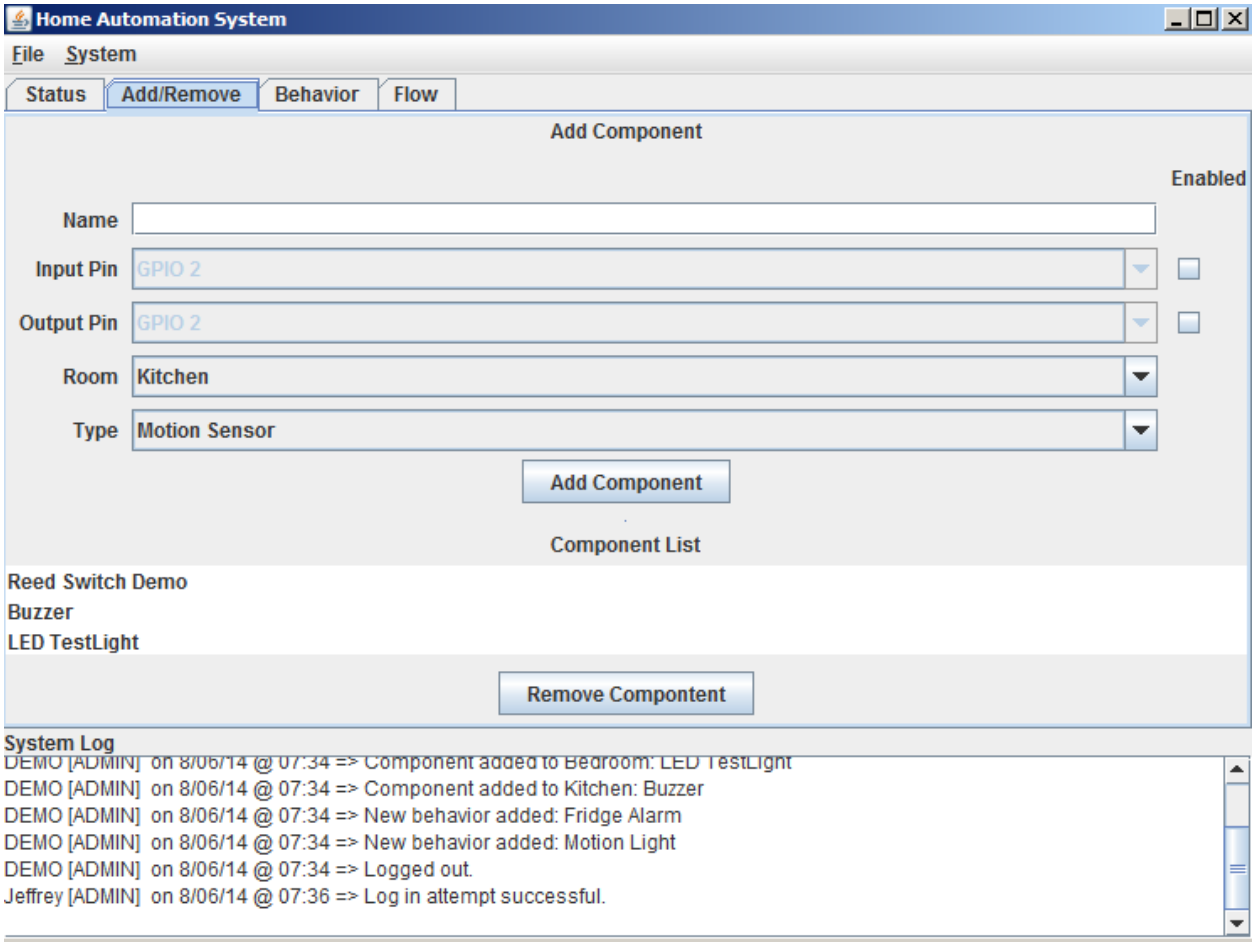
Component Status View and Manipulation

Upon logging in the Status page should appear. Here the user can view the components such as lights to determine if they are on or off. The user can also manually set components the components on or off at this screen using the buttons. A drop down panel also is located here that displays a list of rooms contained in the house.



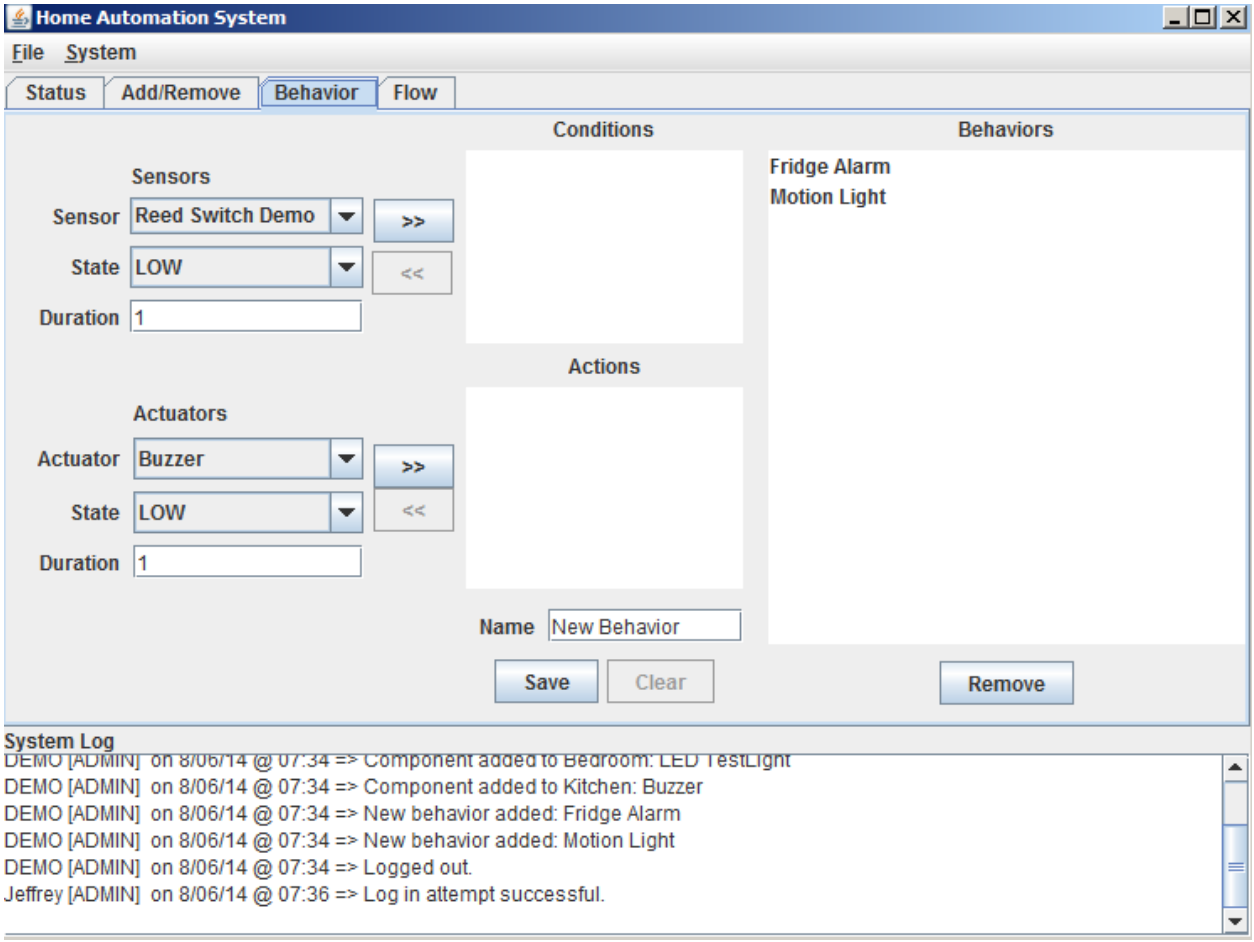
Add / Remove Component

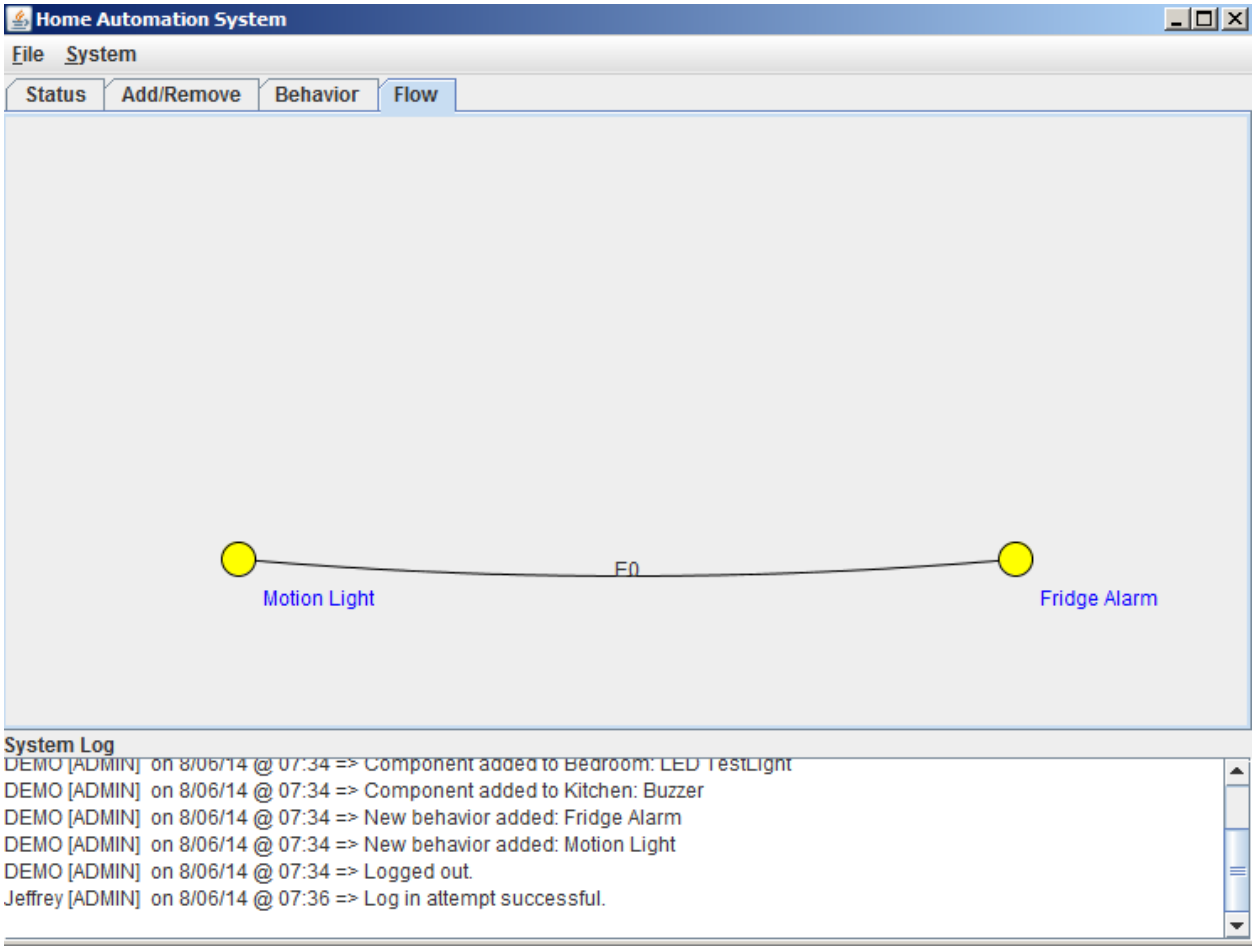
Once logged in, the user with correct privileges will be able to choose the Add / Remove tab option and be taken to a panel where the user can Add and Remove components to the Home Automation System. User is able to do this by providing a set of identifying markers for the element to be added, such as Name, Pin numbers for input and output, and the room the device is located in before clicking to add the component. Removing a component is as easy as selecting the desired component in the component list section and clicking the remove button.



Flow Chart

Once the user has components with behaviors added, the user will be able to chain together behaviors to build a series of directions (i.e. flow) depending on certain actions. For instance, if a certain door is opened that has a buzzer on it, a light or series of lights can be made to turn on or off by linking them to the buzzer within the Flow panel.


Home Automation System
File
System
Status
Add/Remove
Behavior
Flow
Conditions
Behaviors
Sensors
Sensor
Reed Switch Demo
>>
State
LOW
<<
Duration
1
Fridge Alarm
Motion Light
Actions
Actuators
Actuator
Buzzer
>>
State
LOW
<<
Duration
1
Name
New Behavior
Save
Clear
Remove
System Log
DEMO [ADMIN] on 8/06/14 @ 07:34 => Component added to Bedroom: LED TestLight
DEMO [ADMIN] on 8/06/14 @ 07:34 => Component added to Kitchen: Buzzer
DEMO [ADMIN] on 8/06/14 @ 07:34 => New behavior added: Fridge Alarm
DEMO [ADMIN] on 8/06/14 @ 07:34 => New behavior added: Motion Light
DEMO [ADMIN] on 8/06/14 @ 07:34 => Logged out.
Jeffrey [ADMIN] on 8/06/14 @ 07:36 => Log in attempt successful.


Home Automation System
File
System
Status
Add/Remove
Behavior
Flow
F0
Motion Light
Fridge Alarm
System Log
DEMO [ADMIN] on 8/06/14 @ 07:34 => Component added to Bedroom: LED TestLight
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Jeffrey [ADMIN] on 8/06/14 @ 07:36 => Log in attempt successful.