

Individual Assignment #2

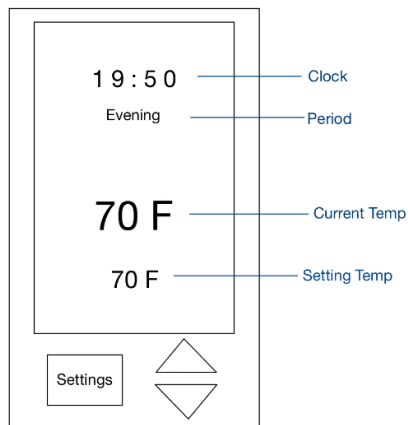


Figure 1.

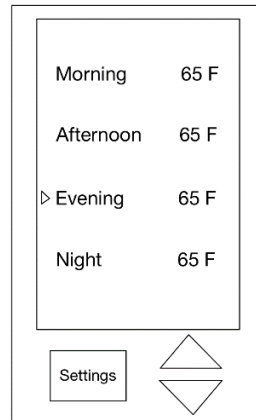


Figure 2.

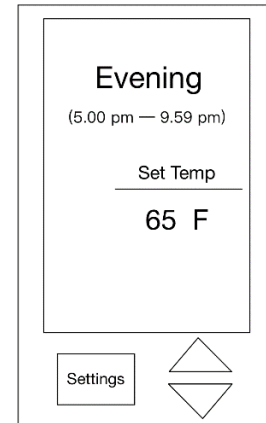


Figure 3.

Conceptual Model:

This thermostat is presented as a screen that displays the current time, current temperature in the room and the setting temperature, a “settings” button and two arrow buttons (Figure 1). When user presses the “settings” button, the screen shows four different periods throughout the day with the setting temperature (Figure 2). Use two arrow buttons to select one period. After selecting one period, for example, “evening”, the screen shows time slots of the evening, and user can set temperature by pressing two arrows (Figure 3).

Affordances:

The interface here provides a screen, a “settings” button and two arrow buttons.

Signifiers:

The button at the bottom of the screen has a “settings” label, so that users can know pressing the button can set temperature. Two arrow buttons are shown as “up” and “down”.

Feedback:

After pressing “settings” button, the screen will switch to the setting interface, and user can press “up” and “down” buttons to set temperatures.

Visibility:

Users will easily know that “settings” button is used to set temperatures and “up” and “down” buttons are used to change temperatures.

Mapping:

This thermostat satisfies the natural mappings like “up” button means the temperature setting up and “down” button means the temperature setting down.

Constraint:

Users of the thermostat only able to set the thermostat to maintain given temperatures during four different periods throughout the day instead of setting the time range by themselves.