CSCI 5310/4930

- A series of coffee makers (Mark V will come out eventually)
- Makes up to 12 cups of coffee at a time
- Warmer plate keeps the pot warm for extended time
- 1. Put coffee grounds into the filter and slide the filter in
- 2. Pour up to 12 cups of water in the water strainer and press Brew button
- 3. Water is heated until boiling
- 4. The pressure of the steam forces the water to be sprayed over the coffee grounds
- 5. Coffee drips through the filter into the pot



What else should we consider when designing software for this coffee maker?

Mark IV Hardware API

- Heating Element for the boiler • Can be turned on and off
- Heating Element for the warmer plate
 - Can be turned on and off
- Sensor for the warmer plate
 - Pot empty
 - Pot not empty
 - Warmer empty (pot has been removed from the warmer)

- Sensor for the boiler
 - Boiler empty
 - Boiler not empty
- Brew button with indicator light
 - Starts the brewing cycle
 - Lights up when brewing is over
- Pressure-relief valve
 - Opens to reduce pressure in the boiler, which stops the flow of water to the filter
 - Can be opened or closed





What is the association between Hot Water Source and Containment Vessel?		
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