**BLOCK DIAGRAM**

INPUT DEVICE

DOOR SENSOR

OUTPUT DEVICE

DISPLAY

OUTPUT DEVICE

HEATING ELEMENT

MICROWAVE OVEN

SOFTWARE SYSTEM

INPUT DEVICE

TIMER CLOCK

INPUT DEVICE

KEYPAD

INPUT DEVICE

WEIGHT SENSOR

The six part components of the Microwave Oven System identified have a hardware component to them, which are the hardware sensors and actuators that interface to the software system. There are three hardware input device components, Door Sensor, Weight Sensor, and Keypad (which all provide inputs to the Microwave Oven Software System), and two hardware output device components, Heating Element and Display (which receive outputs from the Microwave Oven Software System). There is also a real-time Clock hardware timer component, which signals the Microwave Oven Software System.