Rational Rose Demo

The Microwave Example

- There is a single control button available for the user of the oven.
  - If the oven door is closed and you push the button, the oven will cook (energize the power tube) for 1 minute.
  - If you push the button at any time when the oven is cooking, you get an additional minute of cooking time.
  - Pushing the button when the door is open has no effect.
  - Opening the door stops the cooking and clears the timer to 0.

The Microwave Example

- There is a light inside the oven.
  - Anytime the oven is cooking, the light must be turned on.
  - Any time the door is open, the light must be on.
  - If you close the door, the light goes out.
  - If the oven times out, it turns off both the power tube and the light. It then emits a warning beep to tell you that it is finished.

Microwave Example

- Objects
  - Microwave
  - Timer
  - Beeper
  - Light
  - Generator

Microwave Example

- Use cases
  - Heat Food
    - Wait for beep
    - Finish prematurely

Microwave Example

- Sequence Diagrams
  - Heat food for 5 minutes
  - Completion of food heating.