

Rice cooker model

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October 2022

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1 Description

This is a model of a multifunctional rice cooker. This rice cooker have a digital display, 8 special cooking functions and a keep warm function. It will cook all kinds of rice perfectly and will also take care of the cooking of other dishes. With the cooker comes a stirring spoon, a ladle, a measuring cup and a basket for steaming vegetables. With this documentation of the device, I hope the reader can understand the functions and the use cases of this machine.

2 Use cases

Table 1: Use cases

<i>Case</i>	<i>Description</i>	<i>Priority</i>
1. Cook quick rice	Cook jasmin or other quick rice types in 10-15 minutes.	High
2. Cook white rice	Cook normal rice in 45-60 minutes.	High
3. Cook brown rice	Cook brown rice in 45 minutes.	High
4. Cook pouridge	Cook oatmeal in 10 minutes.	Low
5. Cook soup	Cook soup.	Low
6. Steam vegetables	Steam vegetables.	Medium
7. Cook rice and vegetables	Cook rice and cook vegetables at the same time.	Medium
8. Manual program	Set timer manually, how long the cooker should cook.	High

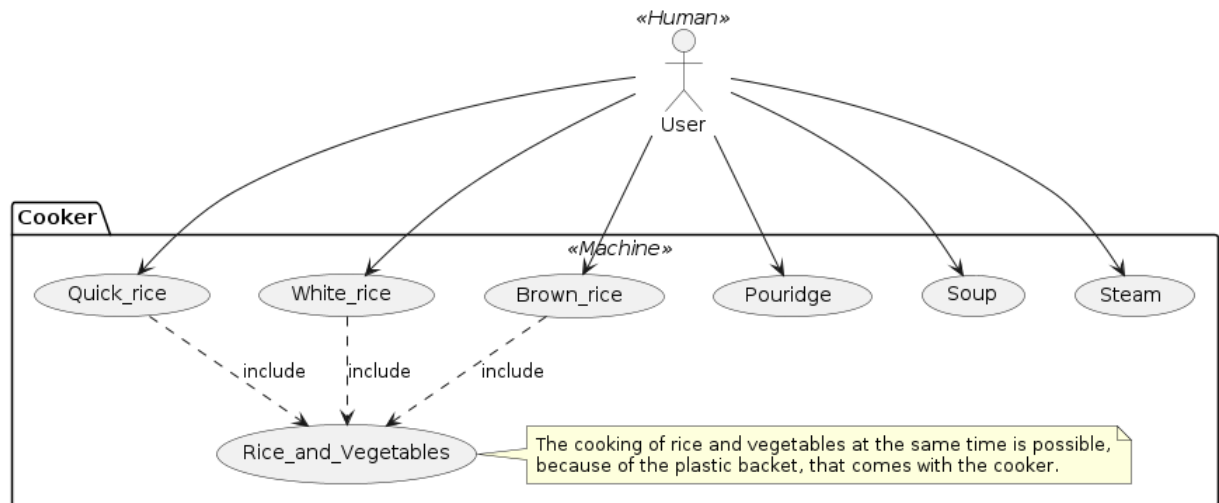


Figure 1: Use Cases

3 Requirements

Table 2: Requirements

<i>Case</i>	<i>Description</i>	<i>Priority</i>
1. Cook quick rice	Be able to cook jasmin or other quick rice types quicker.	High
2. Cook white rice	Have normal rice cooking program.	High
3. Cook brown rice	Have separate brown rice cooking program.	High
4. Cook porridge	Have oatmeal cooking program that cooks oatmeal.	Low
5. Cook soup	Have a soup cooking program that can cook soup with meat.	Low
6. Steam vegetables	Have a steaming program that can make steamed vegetables.	Medium
7. Cook rice and vegetables	Be able to cook rice and cook vegetables at the same time.	Medium
8. Steam	Have a plastic basket for steaming vegetables.	Medium
9. Manual	Can set manually the cooking time.	High
10. Non-stick surface	The cooking bowl must have a non stick surface.	High
11. Plastic tools	Have plastic tools that comes with the rice cooker, ex.: stirring spoon, measuring cup, etc.	High

4 Machine Structure

4.0.1 Components

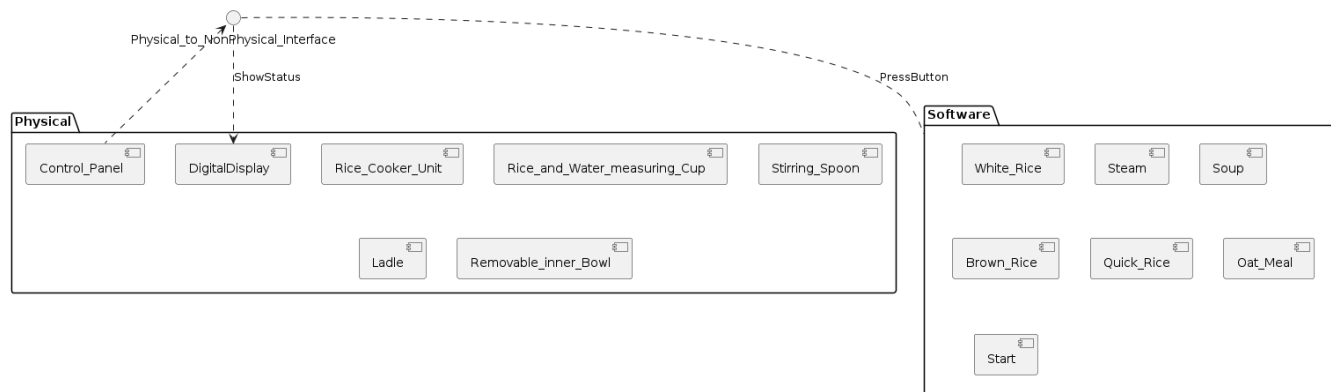


Figure 2: component

5 Behaviour

5.0.1 StateMachine

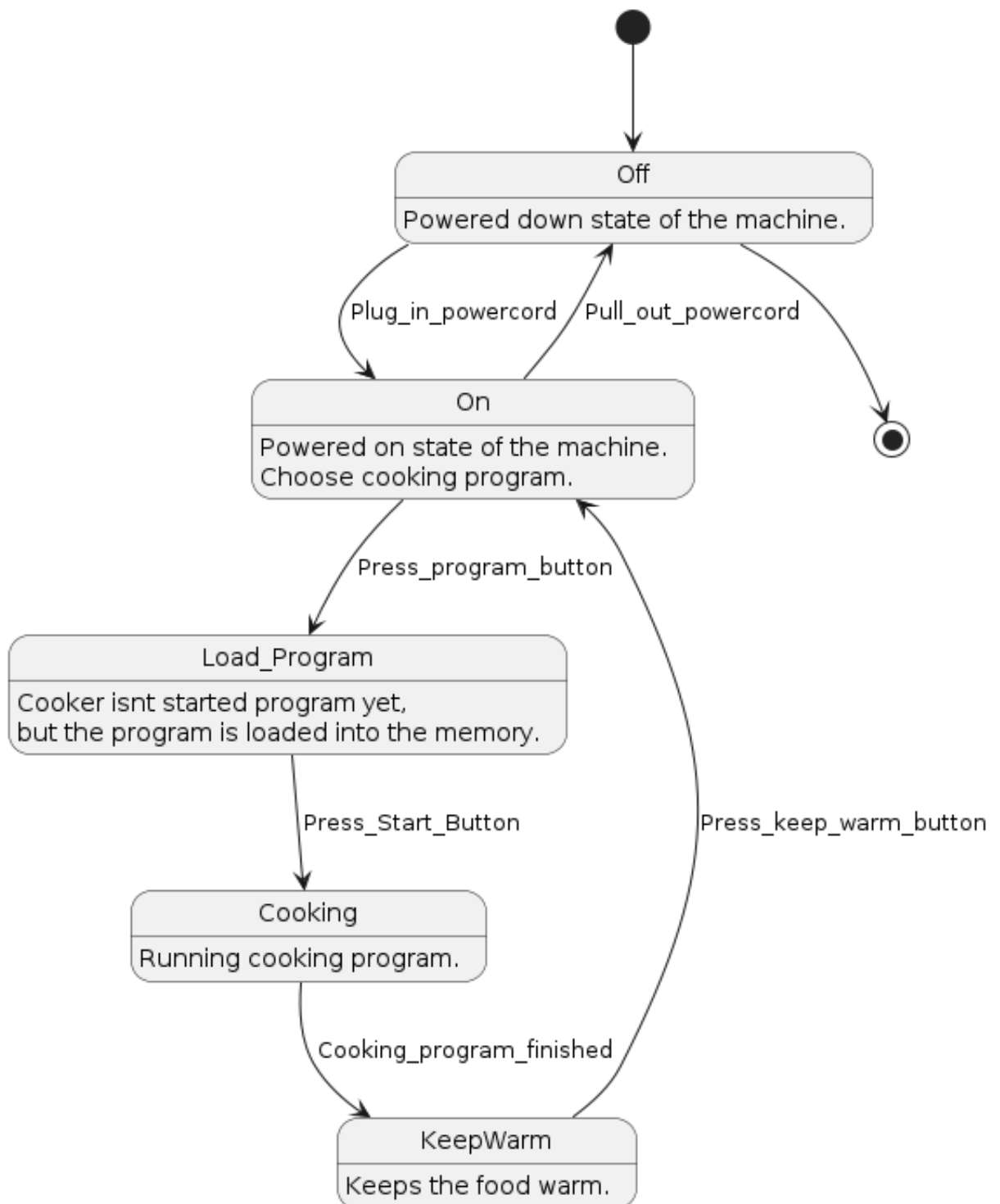


Figure 3: statemachine
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5.0.2 Sequences

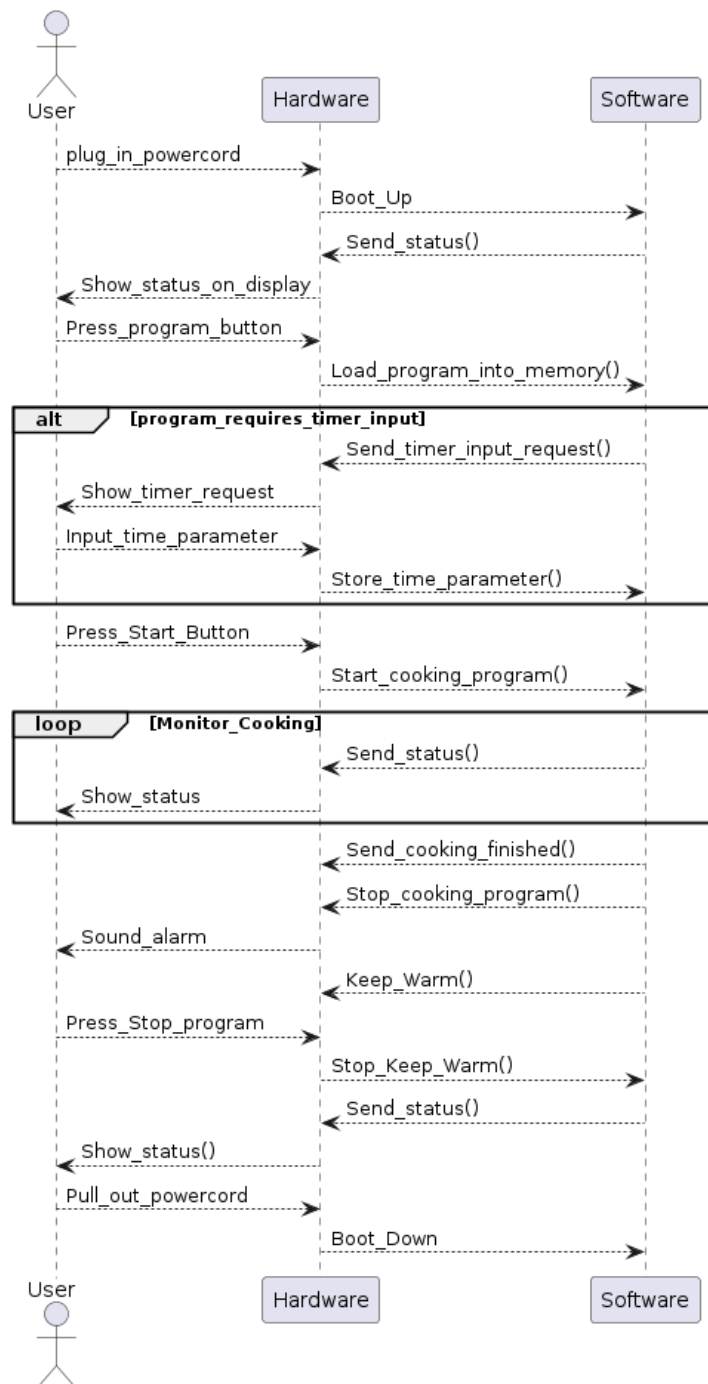


Figure 4: sequence

5.1 Behaviour Description

To power on the machine, the user have to plug in the power cable into the power outlet. To power off the machine, the user have to pull out the power cable from the power outlet. The digital display shows the status of the machine. To select the cooking program, press the button refering to it. If the program does not require timer input, press the Start button and the machine will start the cooking program immediately. If the cooking program requires timer input, then press the + or - button to add or subtract 5 minutes from the cooking time. When the cooking program is finished the machine will give five short sound signals, then switches into keep warm program. Keep Warm program can keep the food warm upto 8 hours. To disable Keep Warm state, press the Stop button. To take the food out of the cooking bowl, use the plastic ladle.