
SoloProject

**Report on Configuration
DefaultConfig**

PACKAGES

Users

GLOBALS:

ACTORS:

Programer

This person is the "washer." She puts the clothes and sets the wash machine into play.

Relations:

itsSet Operational Mode

Association with Set Operational Mode, Multiplicity of 1, Bi-directional

itsSet Washing Parameters

Association with Set Washing Parameters, Multiplicity of 1, Bi-directional

WashDaMachine

This is the actual machine and the different things that must change as the clothes are being washed

Relations:

itsSet Agitator Speed

Association with Set Agitator Speed, Multiplicity of 1, Bi-directional

itsSet Cycle

Association with Set Cycle, Multiplicity of 1, Bi-directional

itsSet Water Attributes

Association with Set Water Attributes, Multiplicity of 1, Bi-directional

itsSet Basket Speed

Association with Set Basket Speed, Multiplicity of 1, Bi-directional

WashMachine

I plan to make a "washing machine."

. Analog Input 0 would choose the laundry load (Small to Large). The size of the load would determine how much water is to be placed in the washer. Though this knob is continuous the load size would be determined as follows:

- o If the value was from 0 – 63, the load would be small
 § Water fills for 10 sec. (this is a shorten time for simulation purposes)*
- o If the value was from 64 – 127, the load would be medium
 § Water fills for 20 seconds*
- o If the value was from 128 – 191, the load would be the large
 § Water fills for 30 seconds*
- o If the value was from 192 – 255, the load would be super
 § Water fills for 40 seconds*

**** NOTE if the water knob changes from a smaller to larger or from larger to smaller the latter time for filling will be used. Unless the later time has already surpassed water will then cease to fill, it will not be emptied from the tub. ****

- . Analog Input 1 would determine the temperature of the water to place in the tub.
 o If the value was from 0 – 63, Warm Cold Wash*

- o If the value was from 64 – 127, Hot Cold Wash
- o If the value was from 128 – 191, Warm Warm Wash
- o If the value was from 192 – 255, Cold Cold Wash

*** The input of the water being hot or cold would be shown on the LCD display.

During the soak sequence a two bars would show up with the higher the bar the more of that particular heat of water will go into the tub. If during the fill sequence the temperature is changed only the water going into the tub would change and the water that was already in the tub would stay in the tub. Also the amount of water going into the tub would be constant at all times.

· Analog Input 2 would determine the wash cycle time. Turning the knob after the cycle has started will stop the washer and reset the cycle to the new selection. Press start to begin the new cycle selection. The wash cycles is as follows:

COTTON

- o If the value was from 0 – 19, Auto Soak 30 Min
- o If the value was from 29 – 39, Auto Soak 15 Min
- o If the value was from 40 – 59, Wash 12 sec
- o If the value was from 60 – 79, Wash 9 sec
- o If the value was from 80 – 99, Wash 6 sec

EASY CARE

- o If the value was from 100 – 119, Wash 12 sec
- o If the value was from 120 – 139, Wash 9 sec.
- o If the value was from 140 – 159, Wash 6 sec

Delicates

- o If the value was from 160 – 179, Wash 12 sec
- o If the value was from 180 – 199, Wash 9 sec
- o If the value was from 200 – 219, Wash 6 sec
- o If the value was from 220 – 239, Quick Rinse
- o If the value was from 240 – 255, Spin Only

· The LCD outputs for the cycle stage would be following

- o Fill
- o Soak
- o Wash Time (12 sec left)
- o Wash Time (9 sec left)
- o Wash Time (6 sec left)
- o Rinse
- o 2 nd Rinse (optional)
- o Final Spin

· The following binary inputs would be used to determine the wash/spin speed.

- Enter – Normal/Fast
- 4 – Normal/Slow
- 5 – Gentle/Fast
- 6 – Gentle/Slow

WASH SPEEDS:

Normal will use a high speed for the first few minutes, then the agitator slows down to a moderate speed.

Gentle the agitator will move at a slow speed.

SPIN SPEEDS:

Fast speed will be used for normal items.

Slow speed will be used for delicates.

If one changes the speed during the cycle the last button pressed will be used to determine speeds. The speed of the agitator and basket will be shown on the LCD

Display as a bar chart. With a higher bar representing a faster turn.

· The CHS button would be as a start/stop/pause button used. If the machine was off the machine would be turned on, if during a cycle the button was pressed the machine would pause.

· If the '.' button is pressed would mean that the washer was open. This would stop the cycle just as a pause button..

· There would be one last option for a 2nd rinse The '0' button. If this option is not selected there would be no second rinse.

GLOBALS:

USE CASES:

Set Agitator Speed

If one changes the speed during the cycle the last button pressed will be used to determine speeds. The speed of the agitator and basket will be shown on the LCD
Display as a bar chart. With a higher bar representing a faster turn.

Relations:

itsWashDaMachine

Set Basket Speed

If one changes the speed during the cycle the last button pressed will be used to determine speeds. The speed of the agitator and basket will be shown on the LCD
Display as a bar chart. With a higher bar representing a faster turn.

Relations:

itsWashDaMachine

Set Cycle

- The LCD outputs for the cycle stage would be following
 - o Fill
 - o Soak
 - o Wash Time (12 sec left)
 - o Wash Time (9 sec left)
 - o Wash Time (6 sec left)
 - o Rinse
 - o 2nd Rinse (optional)
 - o Final Spin

Relations:

itsWashDaMachine

Set Operational Mode

· The CHS button would be as a start/stop/pause button used. If the machine was off the machine would be turned on, if during a cycle the button was pressed the machine would pause.

· If the '.' button is pressed would mean that the washer was open. This would stop the cycle just as a pause button..

· There would be one last option for a 2nd rinse The '0' button. If this option is not selected there would be no second rinse.

Set Washing Parameters

- Analog Input 0 would choose the laundry load (Small to Large). The size of the load would determine how much water is to be placed in the washer. Though this knob is continuous the load size would be determined as follows:
 - o If the value was from 0 – 63, the load would be small
 - § Water fills for 10 sec. (this is a shorten time for simulation purposes)
 - o If the value was from 64 – 127, the load would be medium
 - § Water fills for 20 seconds
 - o If the value was from 128 – 191, the load would be the large
 - § Water fills for 30 seconds
 - o If the value was from 192 – 255, the load would be super
 - § Water fills for 40 seconds

- Analog Input 1 would determine the temperature of the water to place in the tub.
 - o If the value was from 0 – 63, Warm Cold Wash
 - o If the value was from 64 – 127, Hot Cold Wash
 - o If the value was from 128 – 191, Warm Warm Wash
 - o If the value was from 192 – 255, Cold Cold Wash

- Analog Input 2 would determine the wash cycle time. Turning the knob after the cycle has started will stop the washer and reset the cycle to the new selection. Press start to begin the new cycle selection. The wash cycles is as follows:
COTTON
 - o If the value was from 0 – 19, Auto Soak 30 Min
 - o If the value was from 29 – 39, Auto Soak 15 Min
 - o If the value was from 40 – 59, Wash 12 sec
 - o If the value was from 60 – 79, Wash 9 sec
 - o If the value was from 80 – 99, Wash 6 secEASY CARE
 - o If the value was from 100 – 119, Wash 12 sec
 - o If the value was from 120 – 139, Wash 9 sec. o If the value was from 140 – 159, Wash 6 secDelicates
 - o If the value was from 160 – 179, Wash 12 sec
 - o If the value was from 180 – 199, Wash 9 sec
 - o If the value was from 200 – 219, Wash 6 sec
 - o If the value was from 220 – 239, Quick Rinse
 - o If the value was from 240 – 255, Spin Only

- The following binary inputs would be used to determine the wash/spin speed.
 - Enter – Normal/Fast
 - 4 – Normal/Slow
 - 5 – Gentle/Fast
 - 6 – Gentle/Slow

- WASH SPEEDS:
 - Normal will use a high speed for the first few minutes, then the agitator slows down to a moderate speed.
 - Gentle the agitator will move at a slow speed.

- SPIN SPEEDS:
 - Fast speed will be used for normal items.
 - Slow speed will be used for delicates.

Relations:
itsProgramer

Set Water Attributes

**** NOTE if the water knob changes from a smaller to larger or from larger to smaller the latter time for filling will be used. Unless the later time has already surpassed water will then cease to fill, it will not be emptied from the tub. ****

**** The input of the water being hot or cold would be shown on the LCD display. During the soak sequence a two bars would show up with the higher the bar the more of that particular heat of water will go into the tub. If during the fill sequence the temperature is changed only the water going into the tub would change and the water that was already in the tub would stay in the tub. Also the amount of water going into the tub would be constant at all times.*

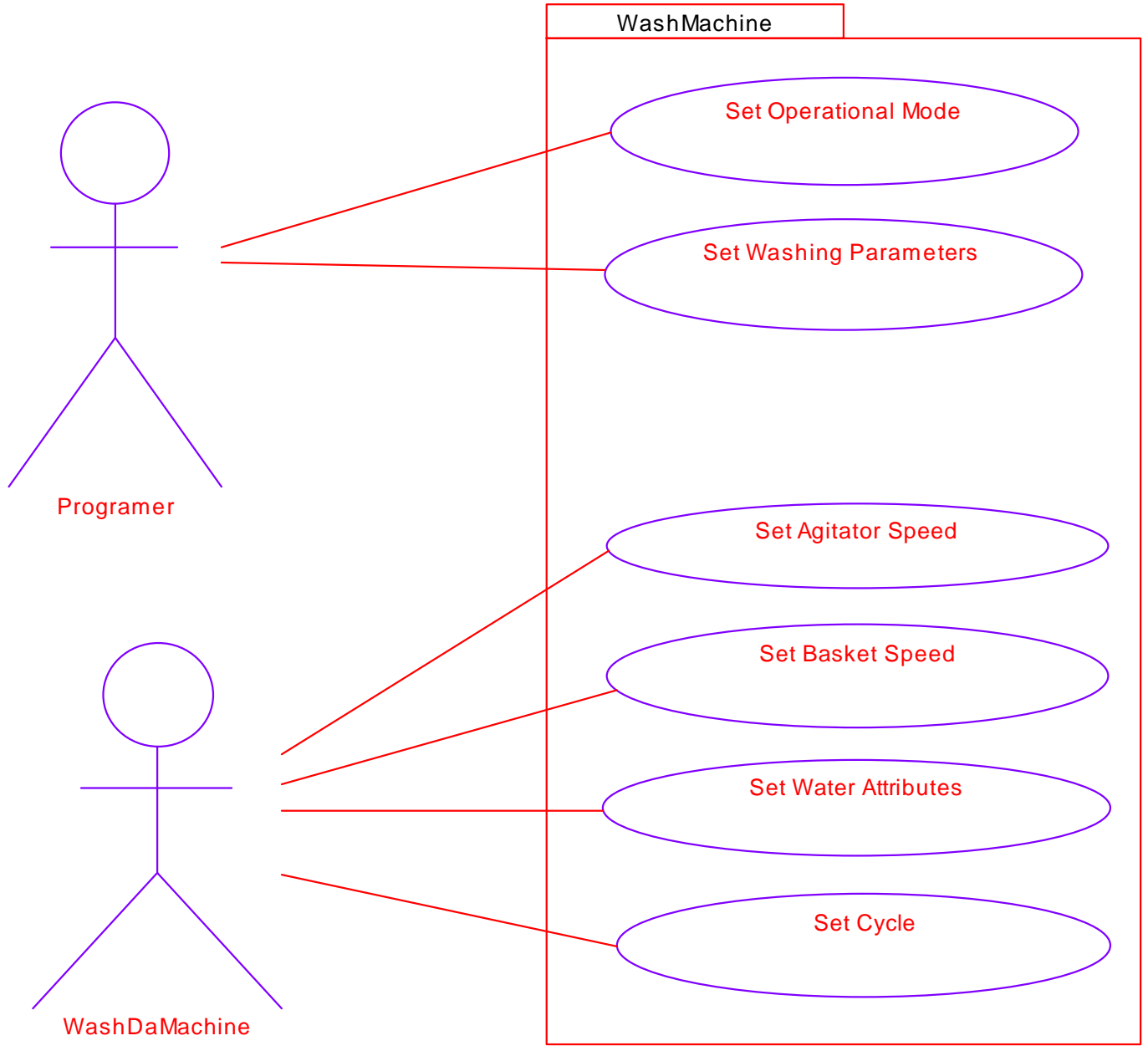
Relations:
itsWashDaMachine

OBJECT MODEL DIAGRAMS

Model1

USE CASE DIAGRAMS

WashMachine



COMPONENTS

DefaultComponent

COMPONENT SETTINGS:

Build type: Executable

CONFIGURATIONS:

DefaultConfig

Scope type: Explicit

Instrumentation type: None

Time-model type: Real-time

Statechart generation type: Flat

FILES AND FOLDERS:

[This looks fine, keep going.](#)