

소프트웨어 공학개론

Coffee Machine

201411259 고수창
201511243 김동언
201511263 박종엽
201511280 이선엽

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2. Software Requirement Analysis(SRA)
3. Data Flow Diagram(DFD)
4. State Transition Diagram(STD)
5. Overall Diagram

목표

Coffee machine



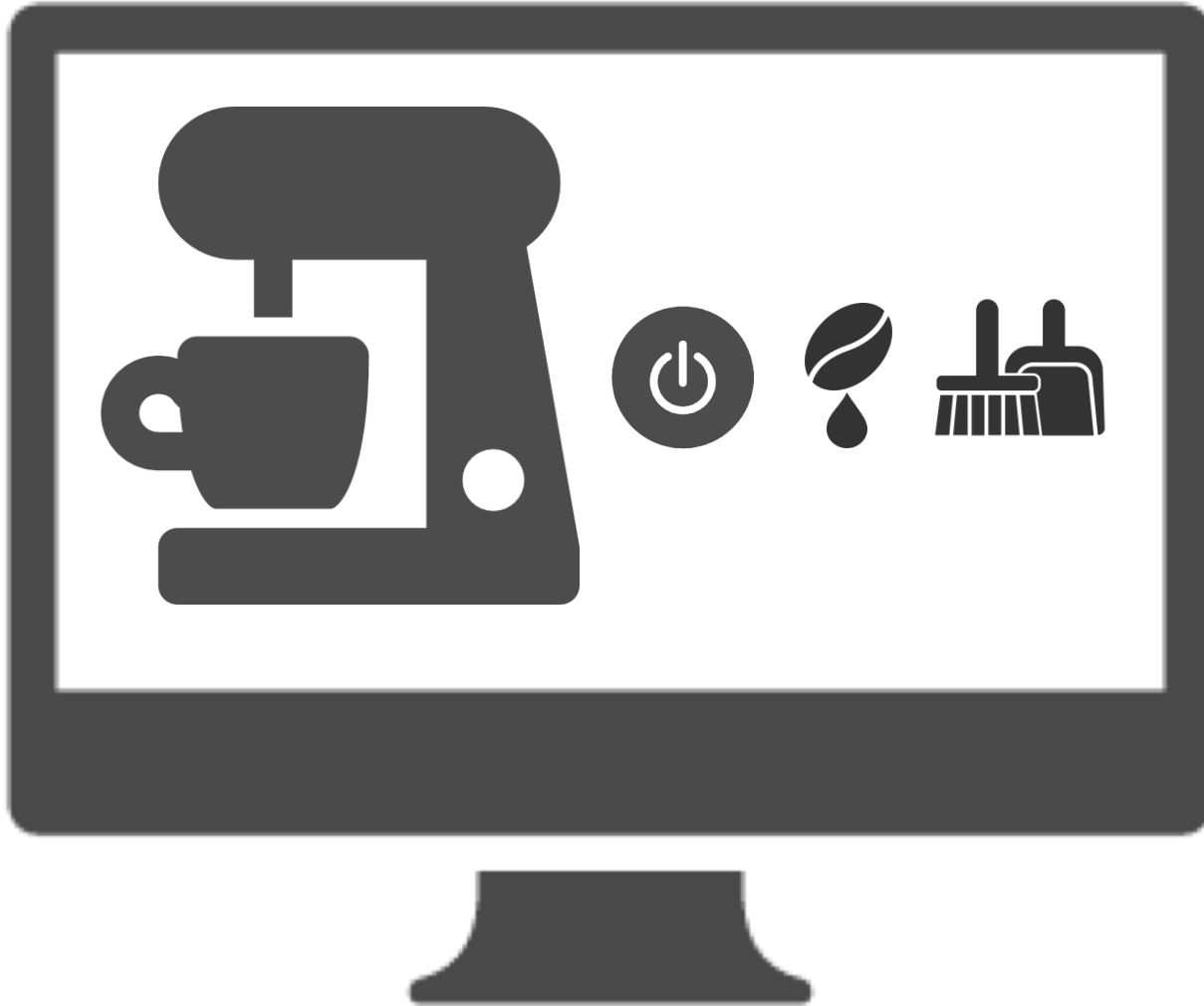
목표

Software Coffee Machine



목표

Turn on, Extract, Cleaning



목표

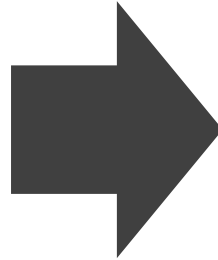
Get user input by console



Software Requirement Analysis

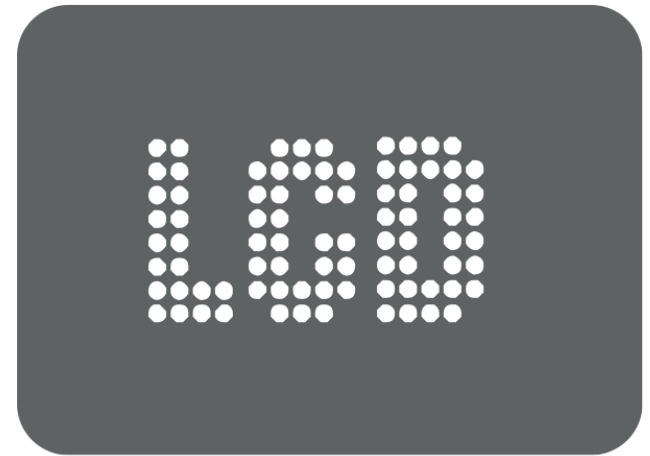
Coffee beans to Coffee

10g



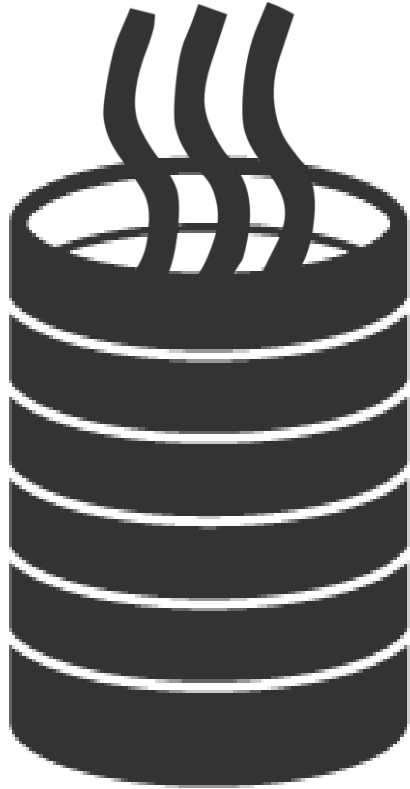
Software Requirement Analysis

Reservation, Concentration, Display

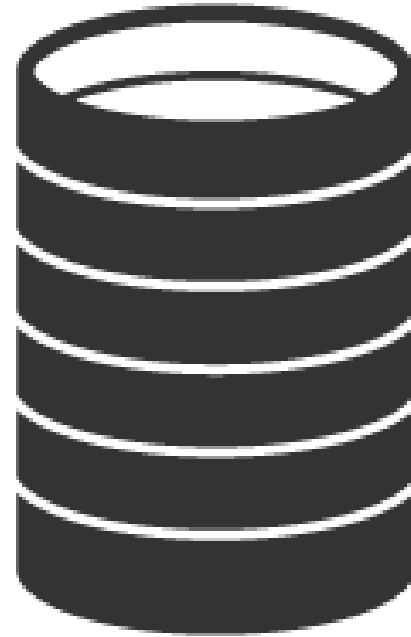


Software Requirement Analysis

Co-exist hot and cold water



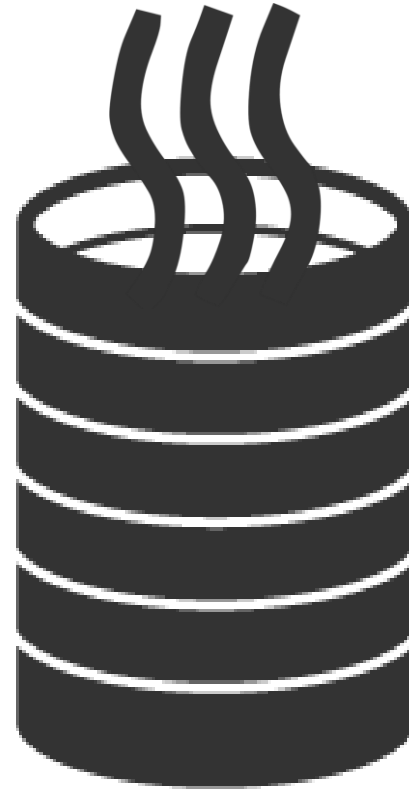
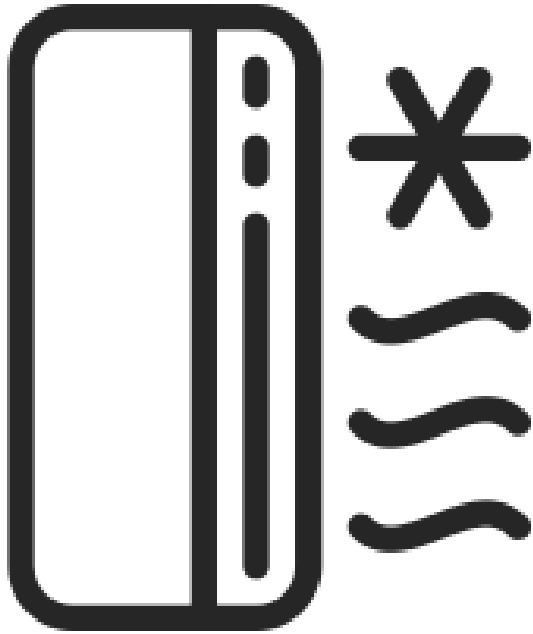
Hot



Cold

Software Requirement Analysis

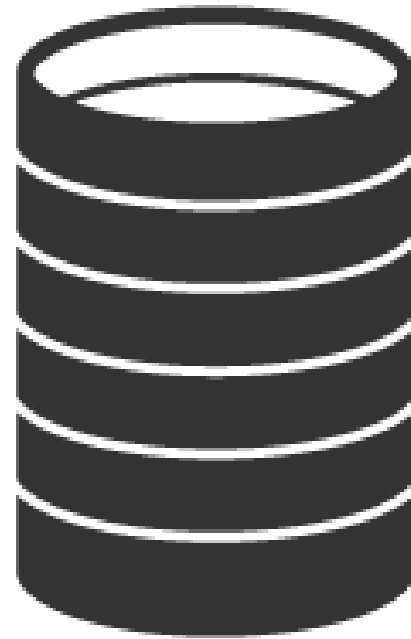
Not need to cooling hot water



Hot

Software Requirement Analysis

Not need to boil cold water

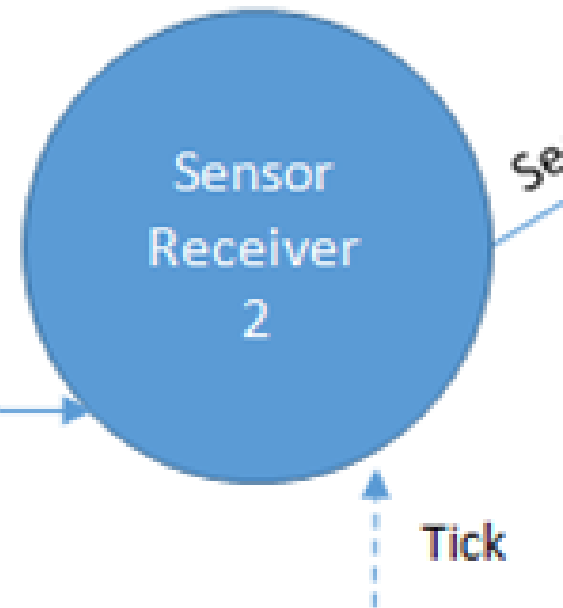


Cold

Software Requirement Analysis

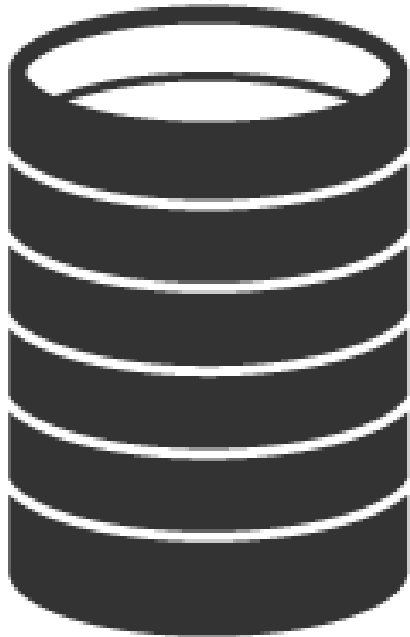
More edietic

Water Pool Weight
Cup Existence
Coffee Powder Weight
Water Pool (Hot) Temperature
Water Pool (Cold) Temperature

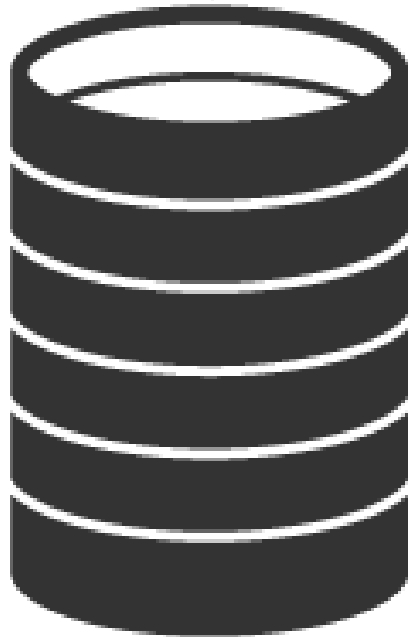


Software Requirement Analysis

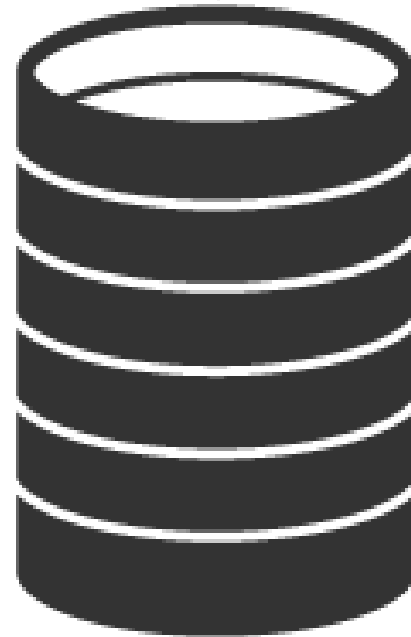
Concentration



100ml



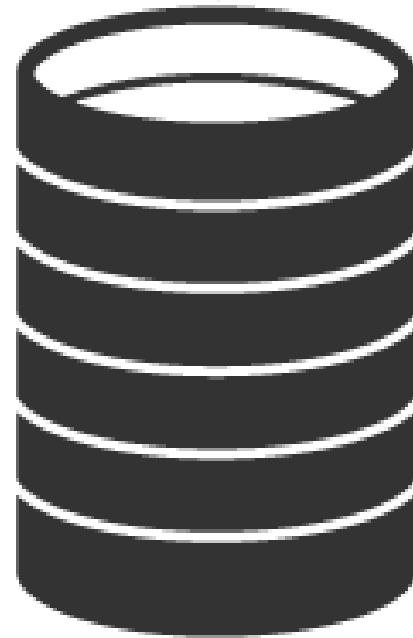
200ml



300ml

Software Requirement Analysis

Cleaning



Cold
500ml

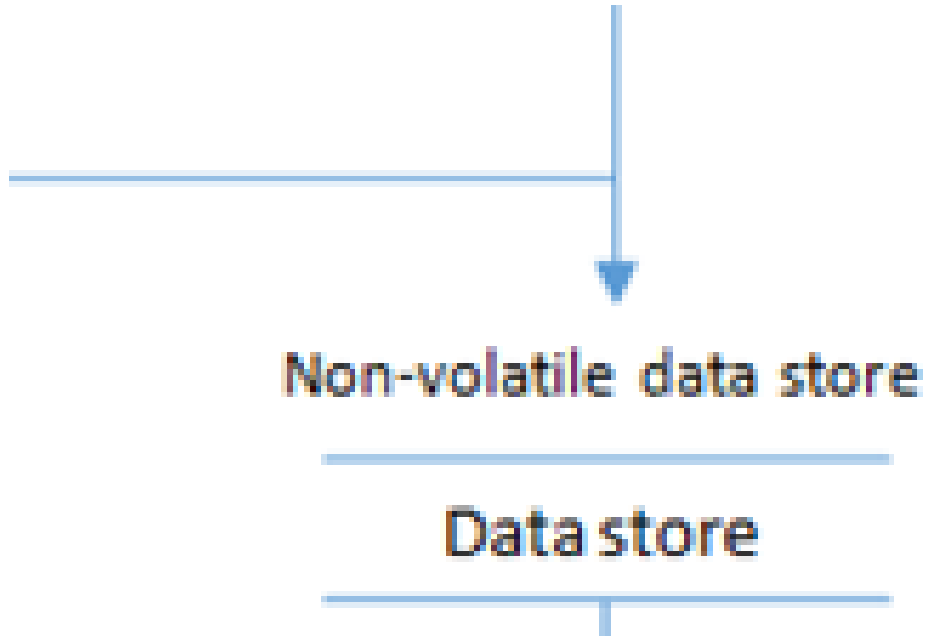
Software Requirement Analysis

Non-volatile data



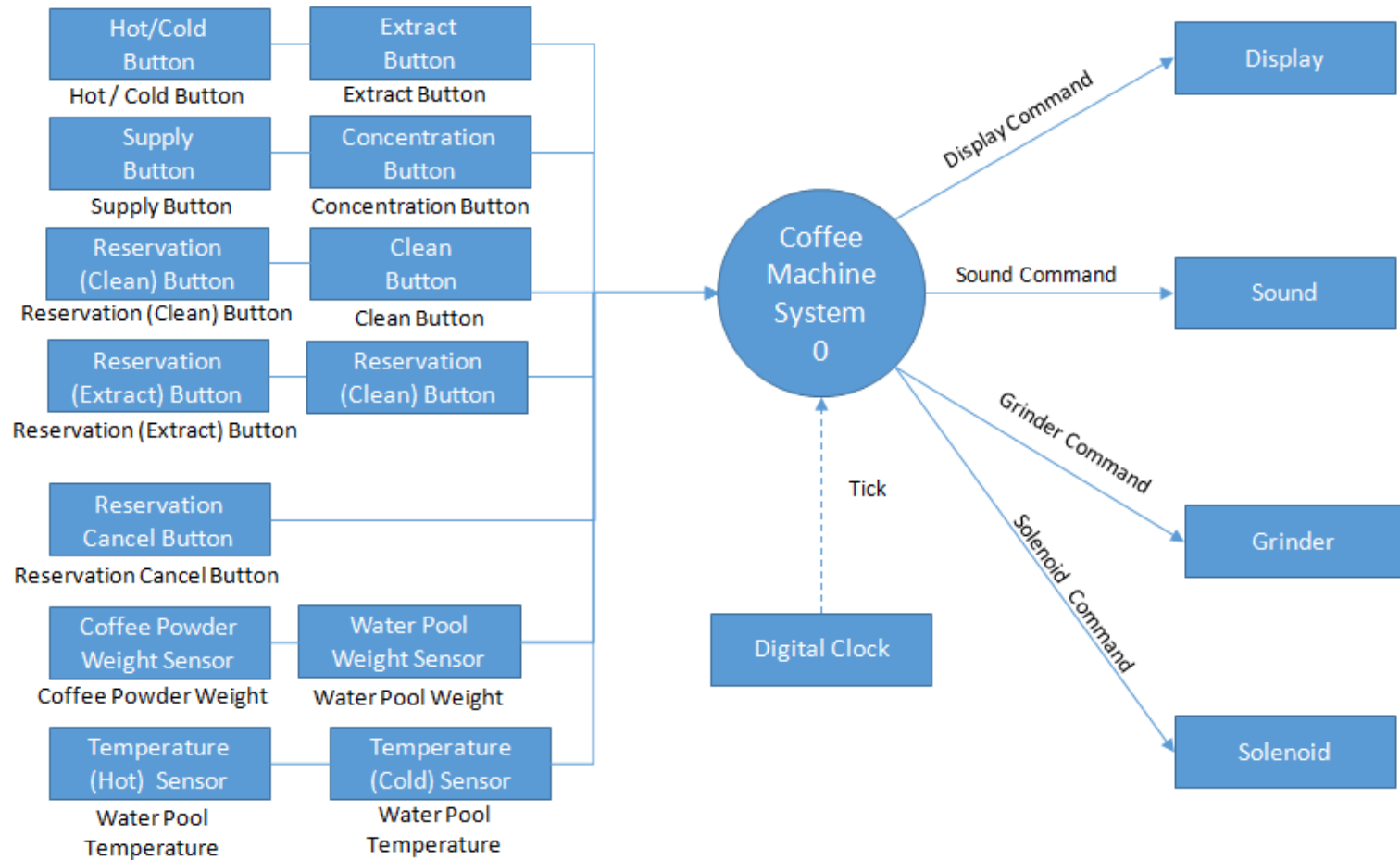
Software Requirement Analysis

Non-volatile storage



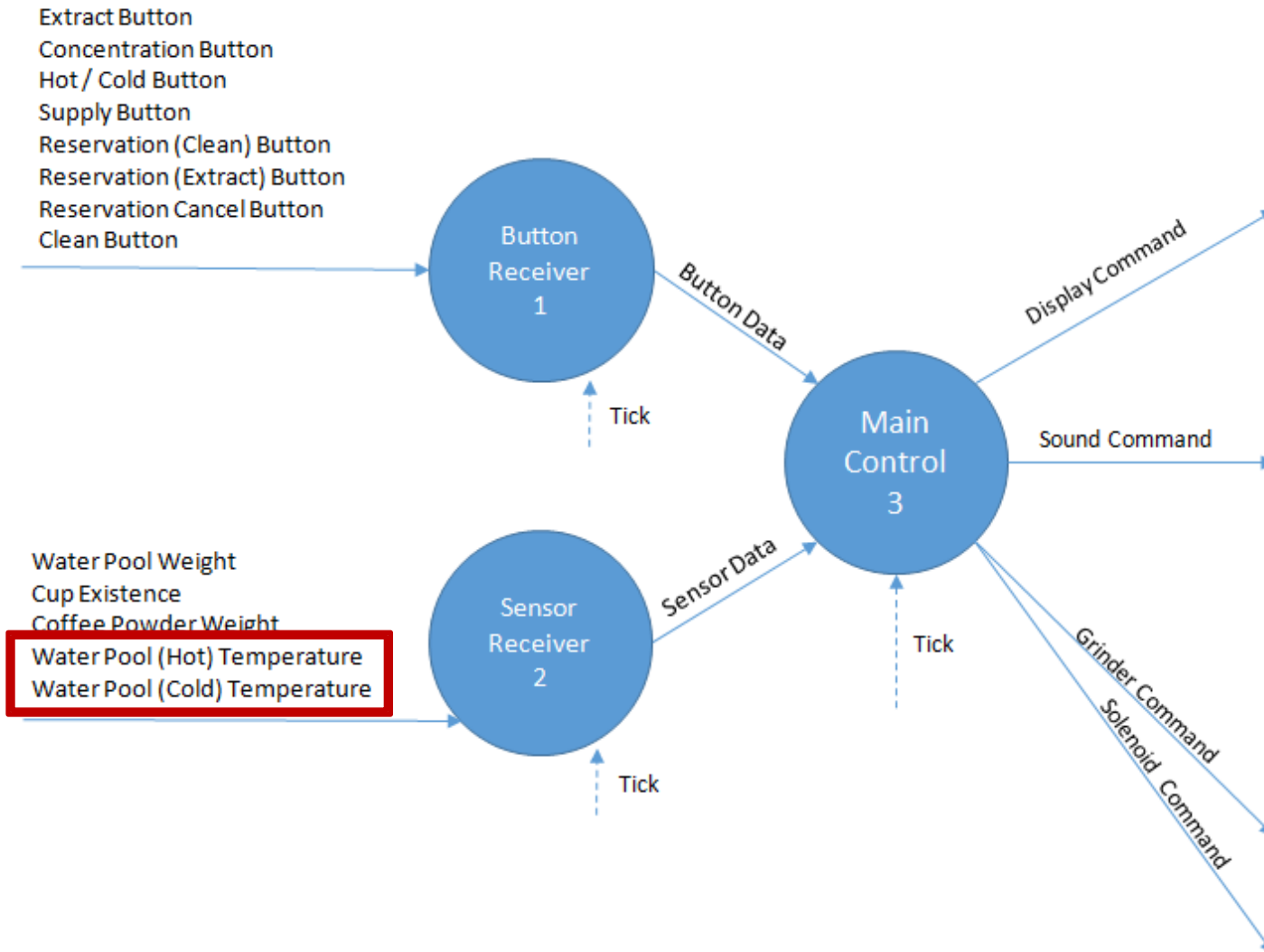
Data Flow Diagram

DFD level 0



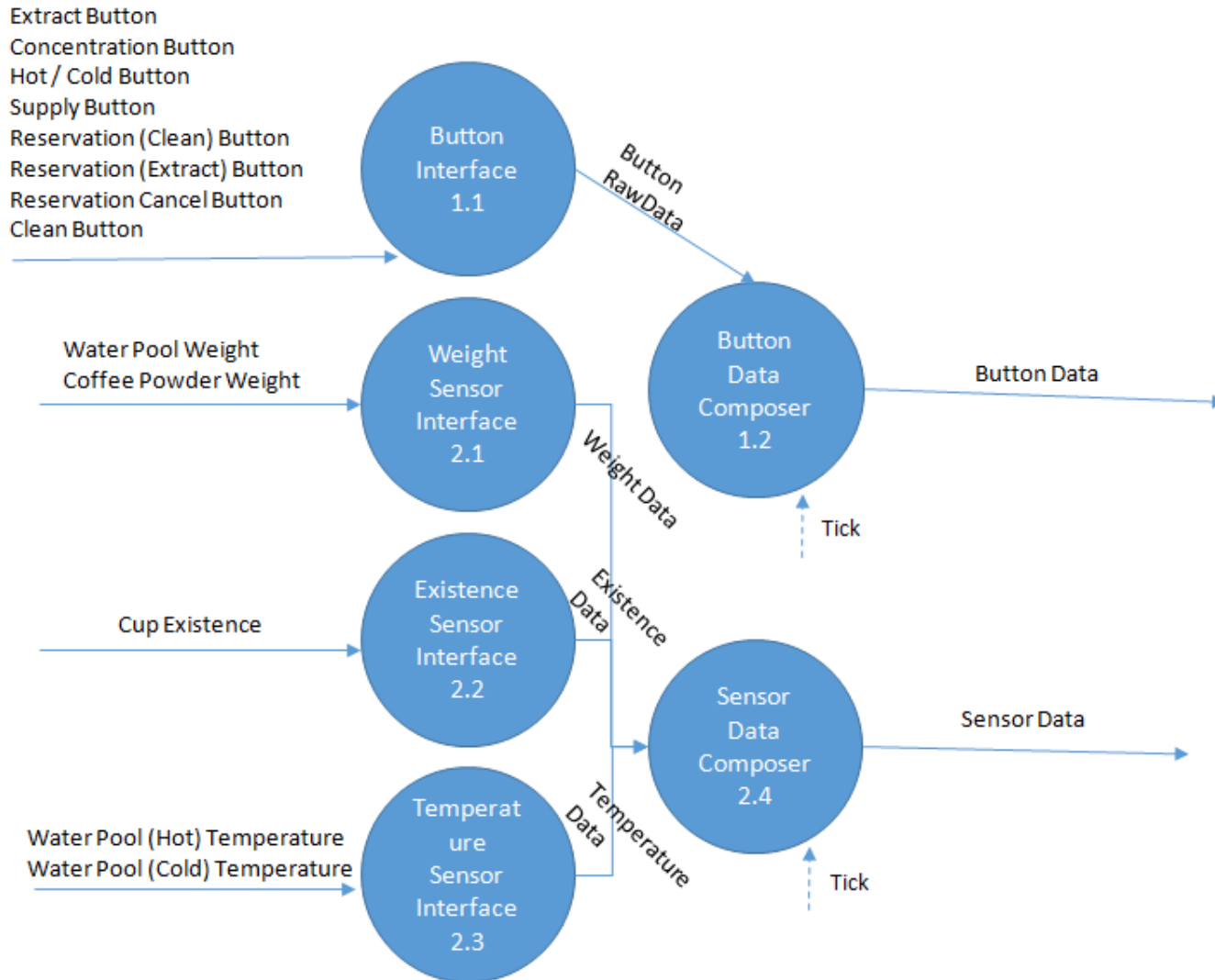
Data Flow Diagram

DFD level 1



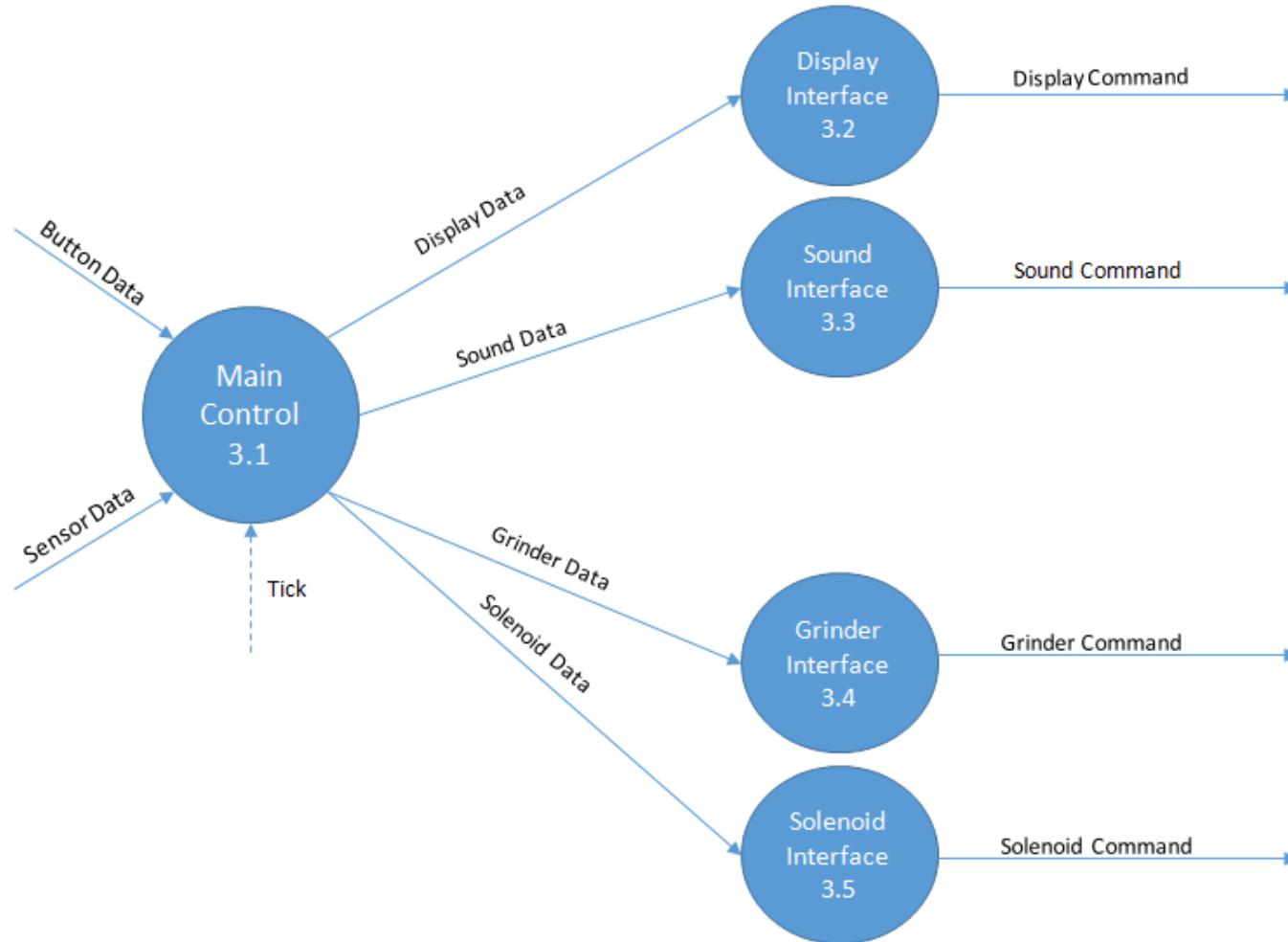
Data Flow Diagram

DFD level 2 (1.* & 2.*)



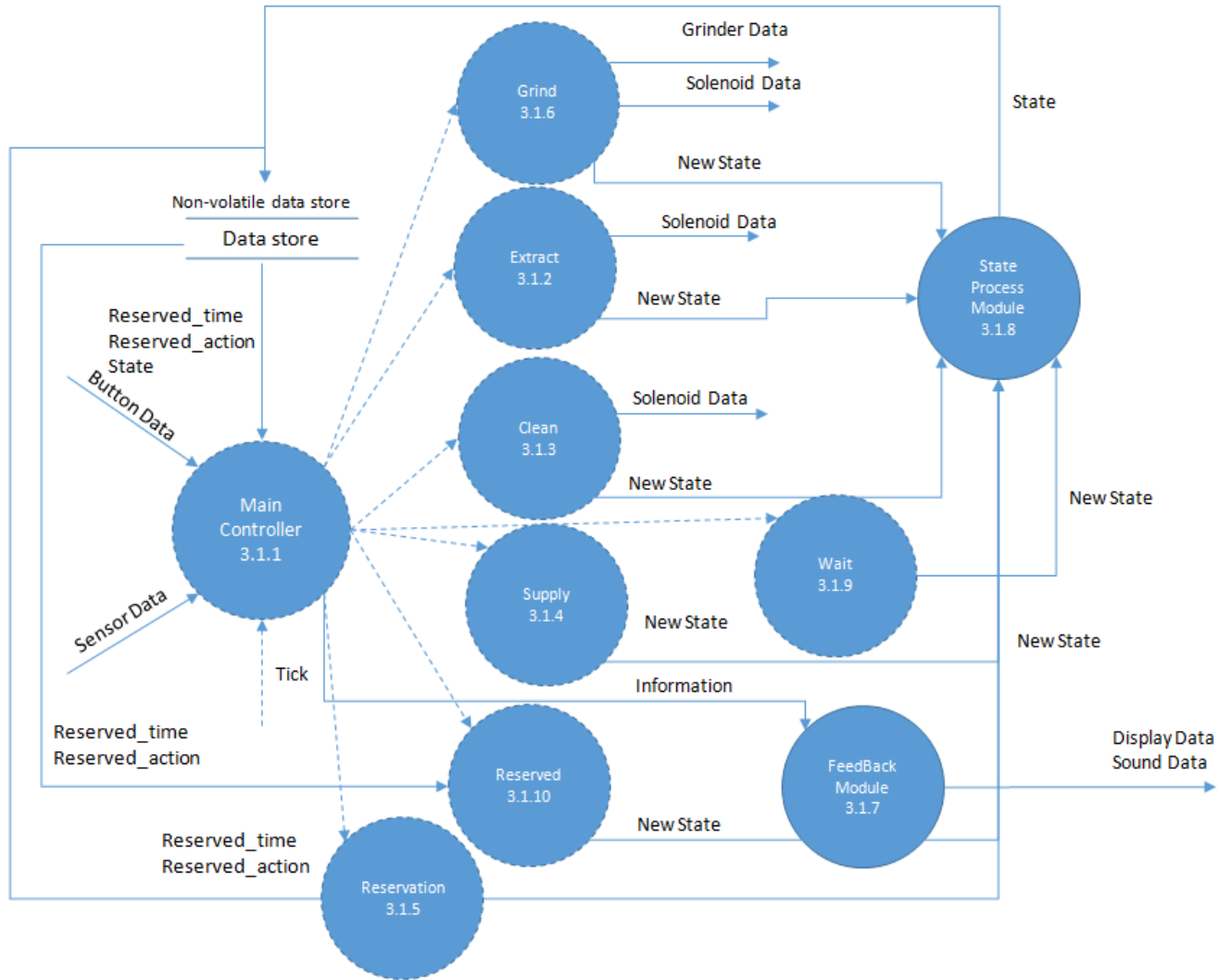
Data Flow Diagram

DFD level 2 (3.*)



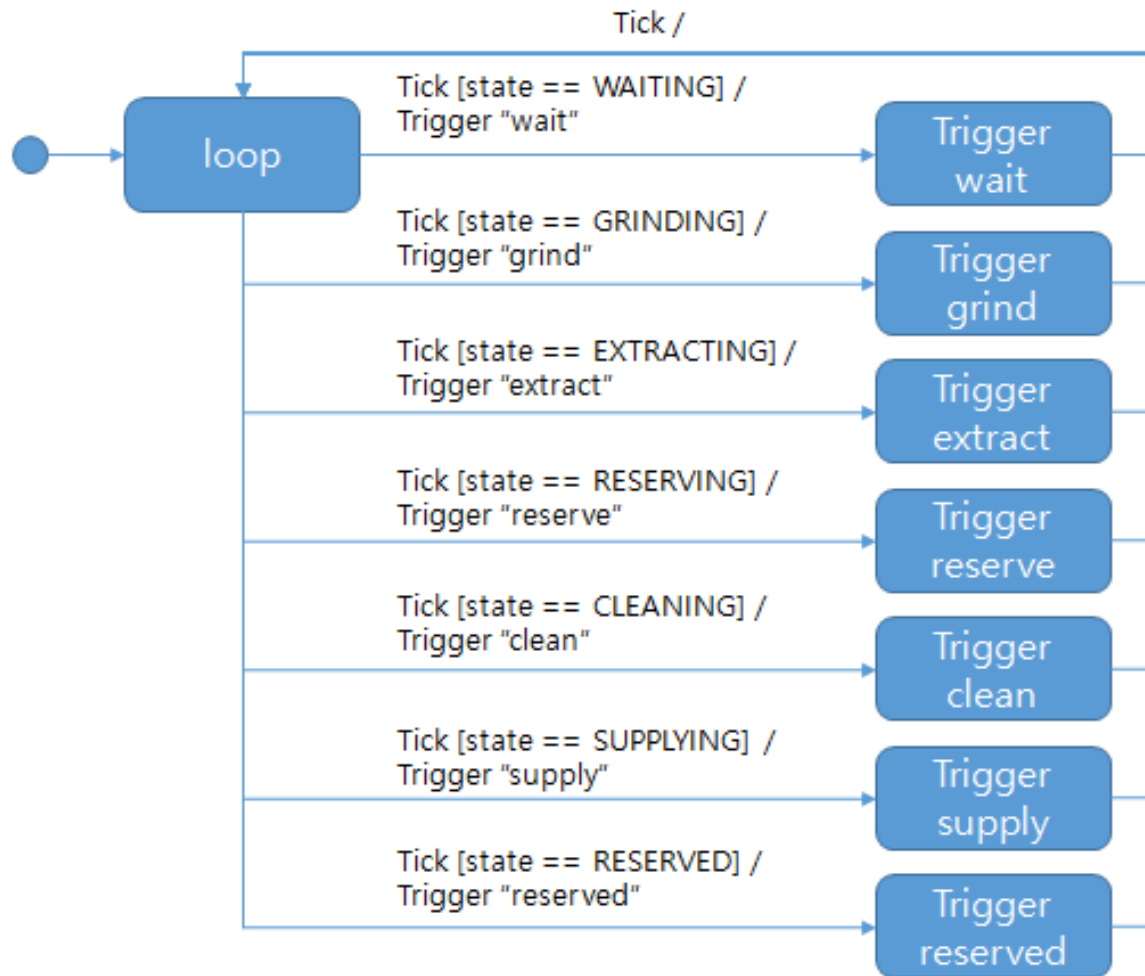
Data Flow Diagram

DFD level 3 (3.1.*)



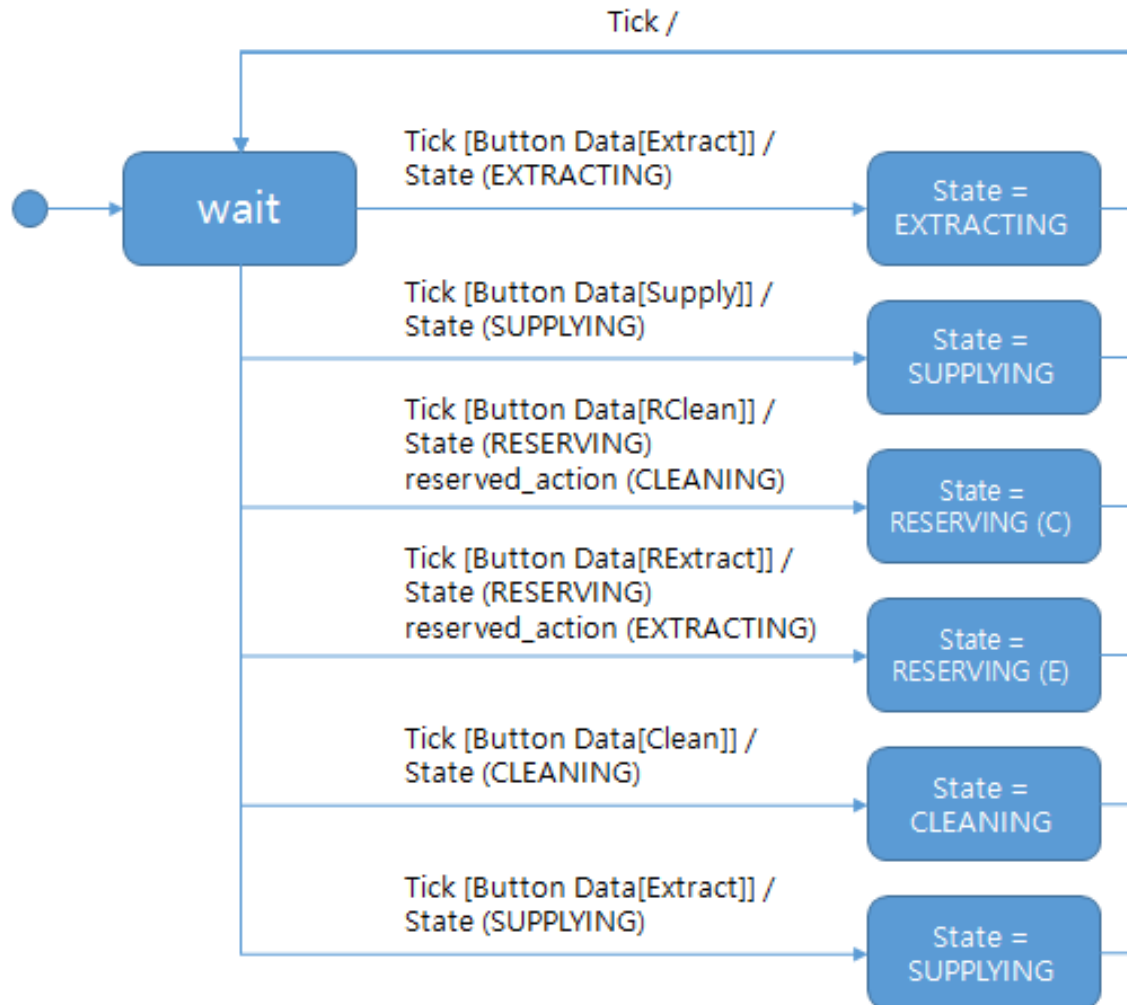
State Transition Diagram

Loop



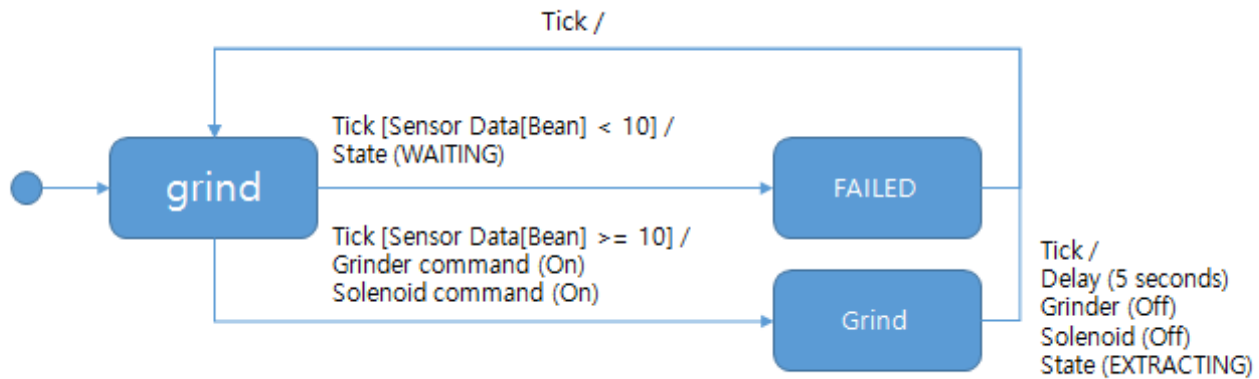
State Transition Diagram

Wait



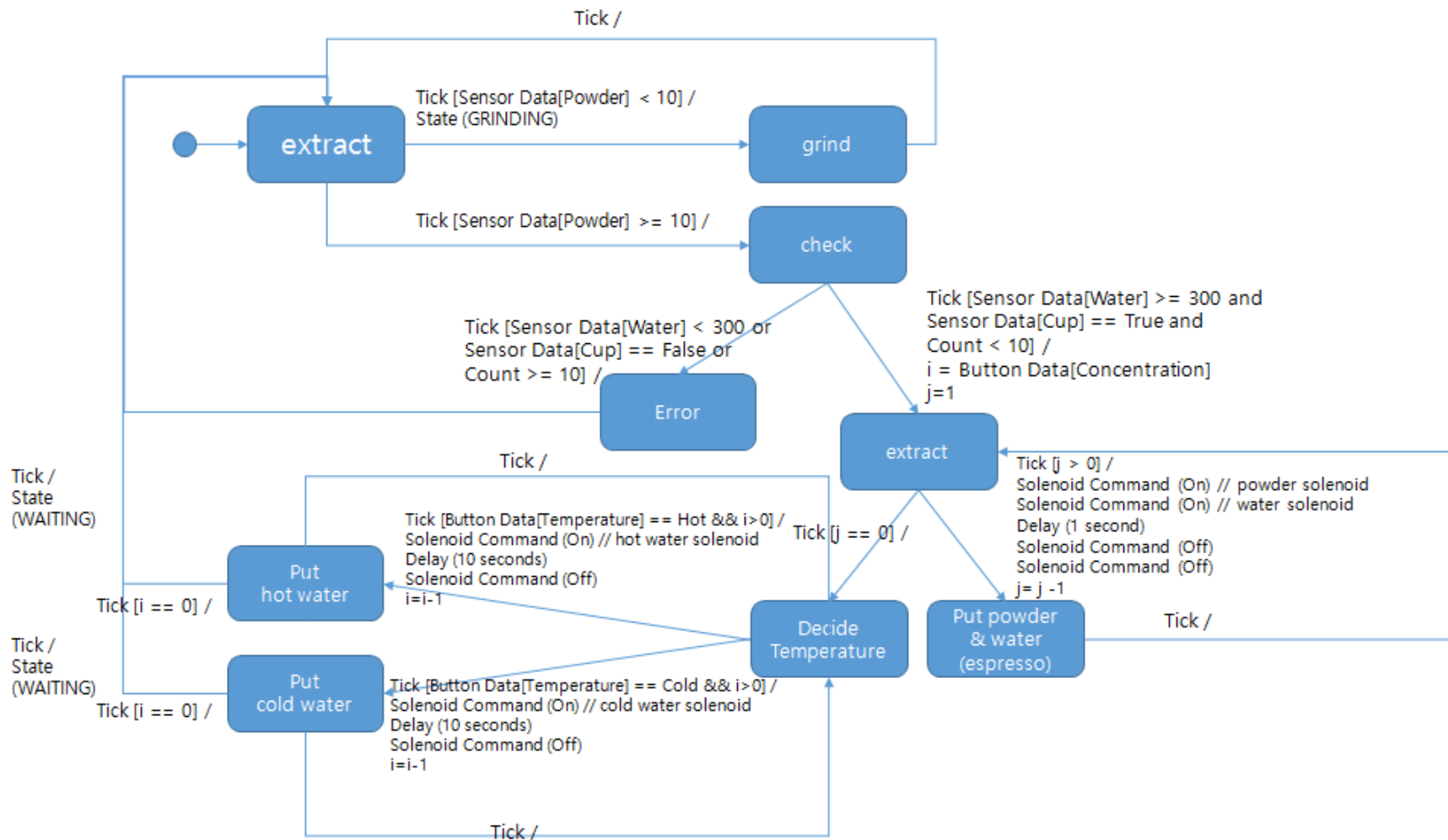
State Transition Diagram

Grind



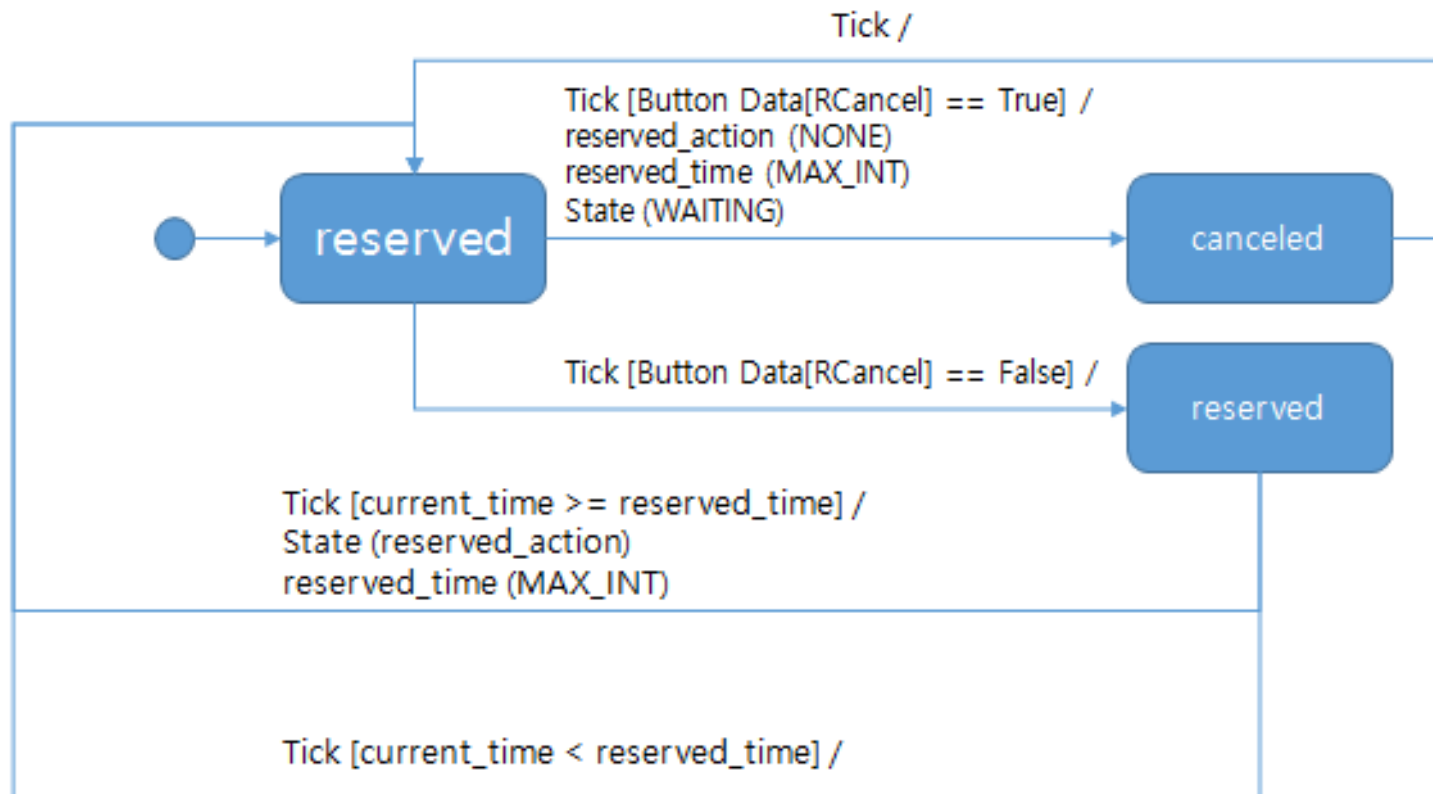
State Transition Diagram

Extract



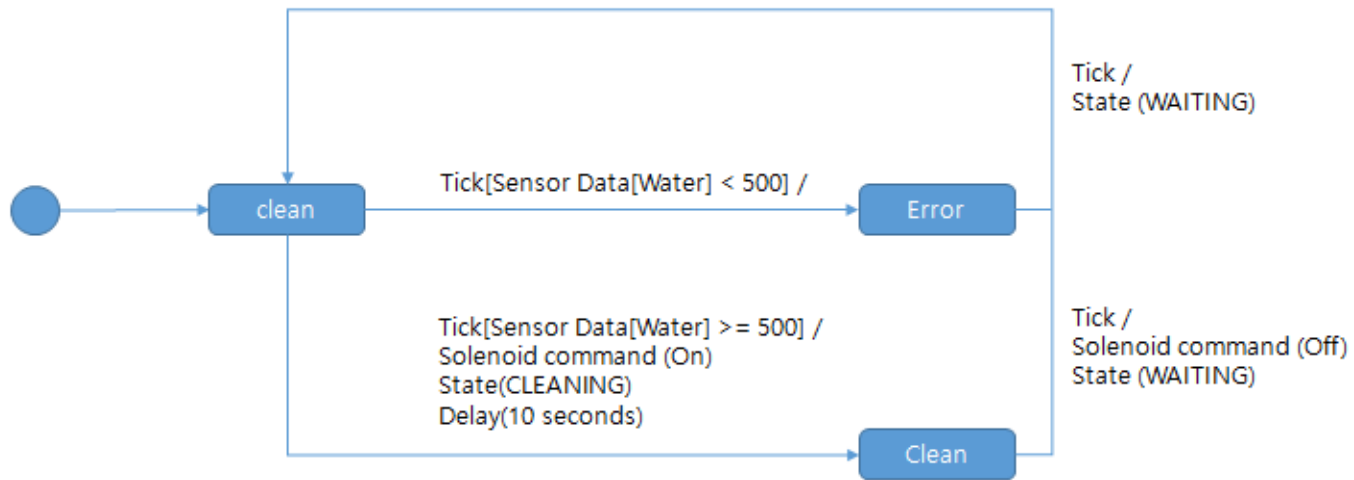
State Transition Diagram

Reserved



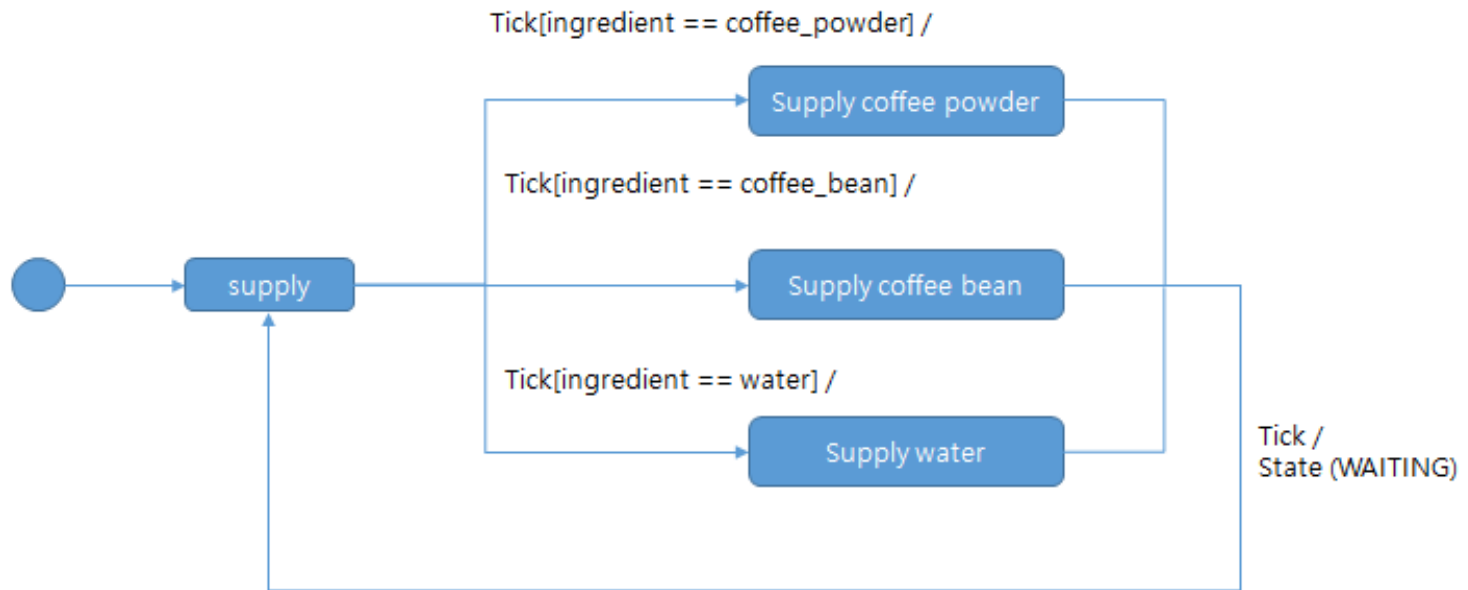
State Transition Diagram

Clean



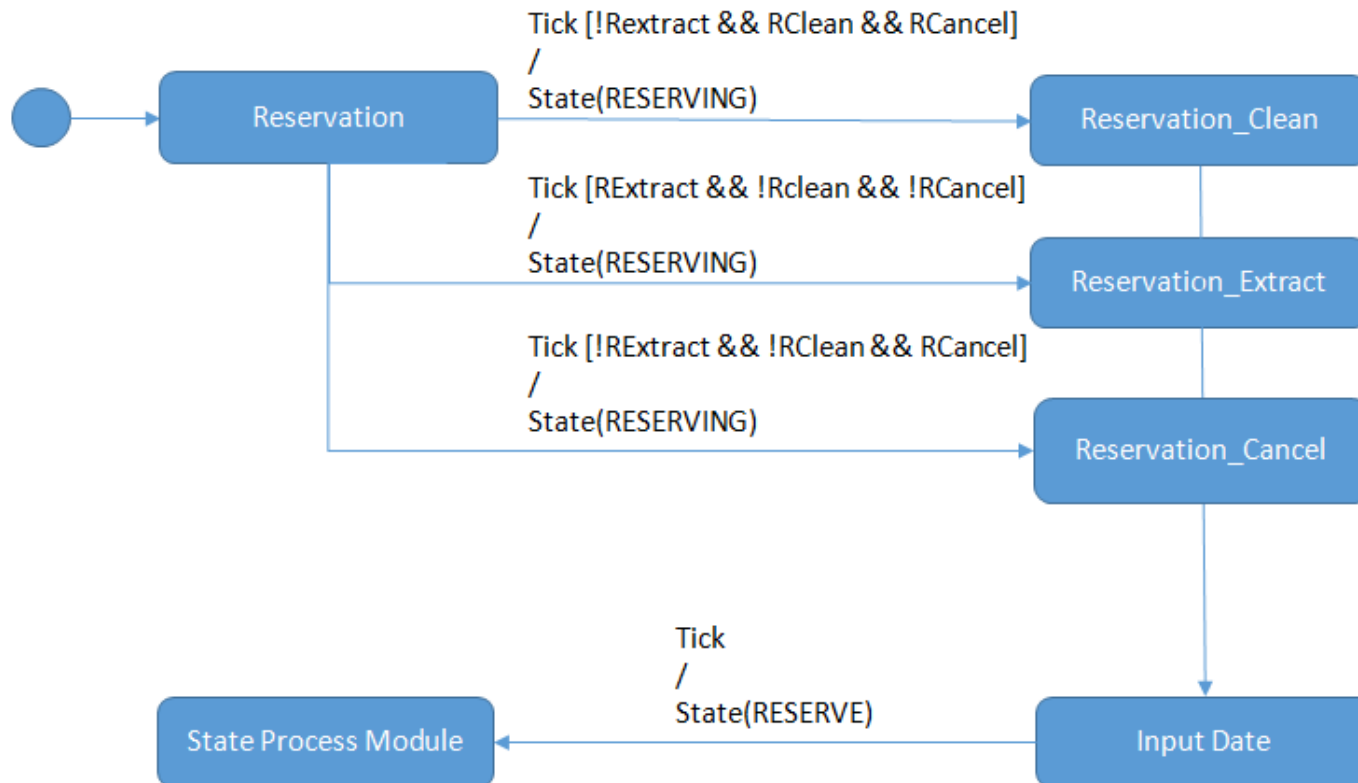
State Transition Diagram

Supply



State Transition Diagram

Reservation



Overall Diagram

