Software Design Specification For Coffee Machine System

#Team6

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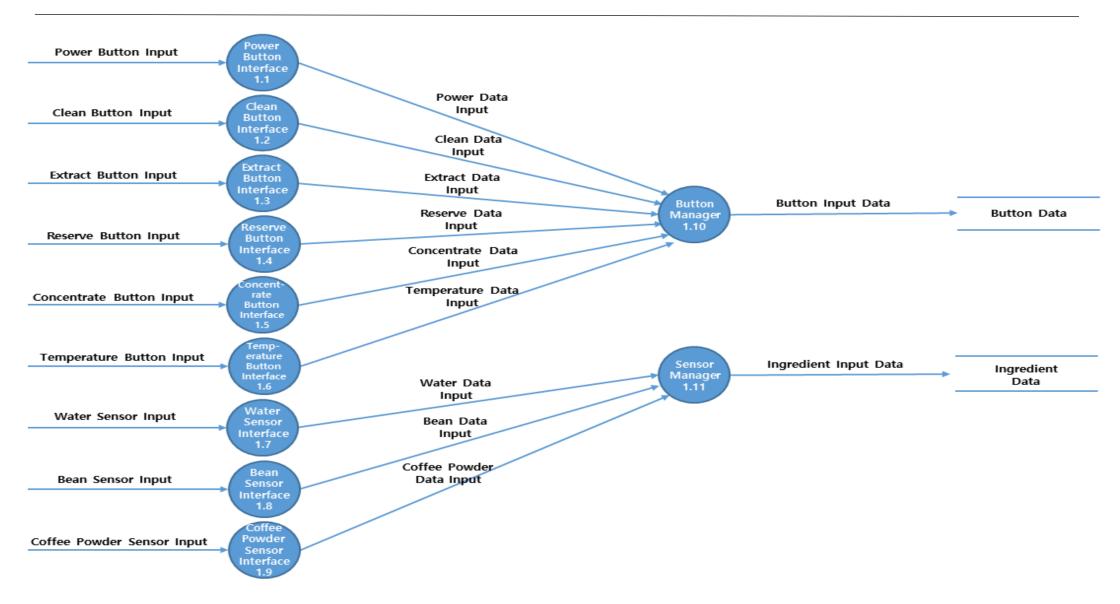
Index

1 DFD STD

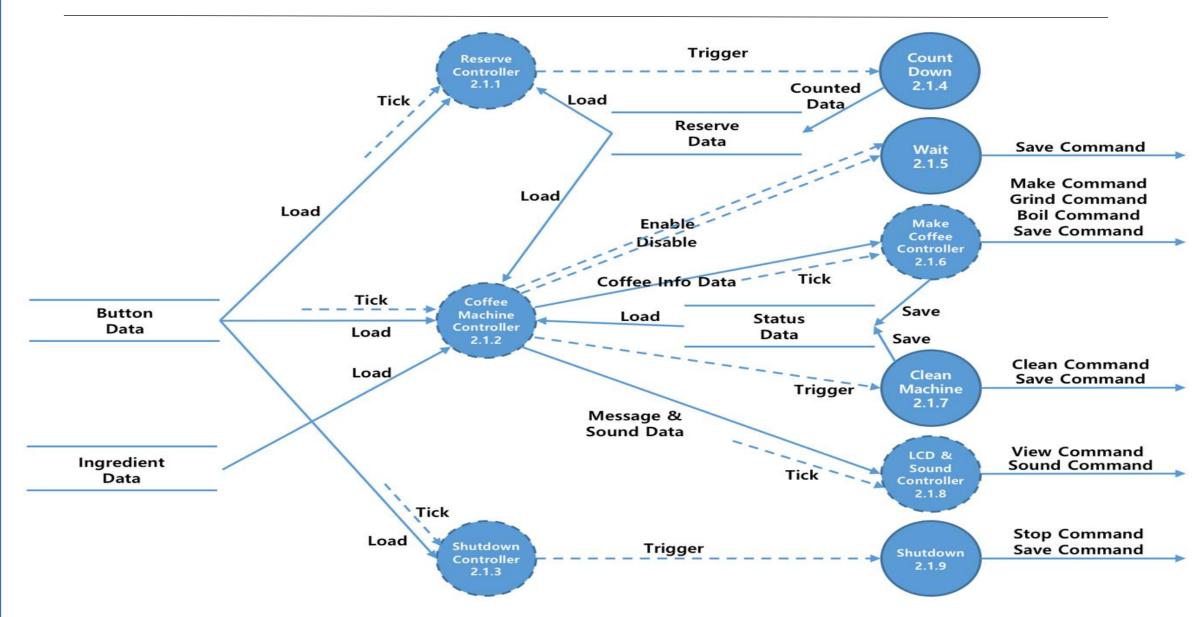
Overall DFD

2 Structured Charts-Transform Anlaysis
Structured Charts(Basic)
Structured Charts(Advanced)

DFD



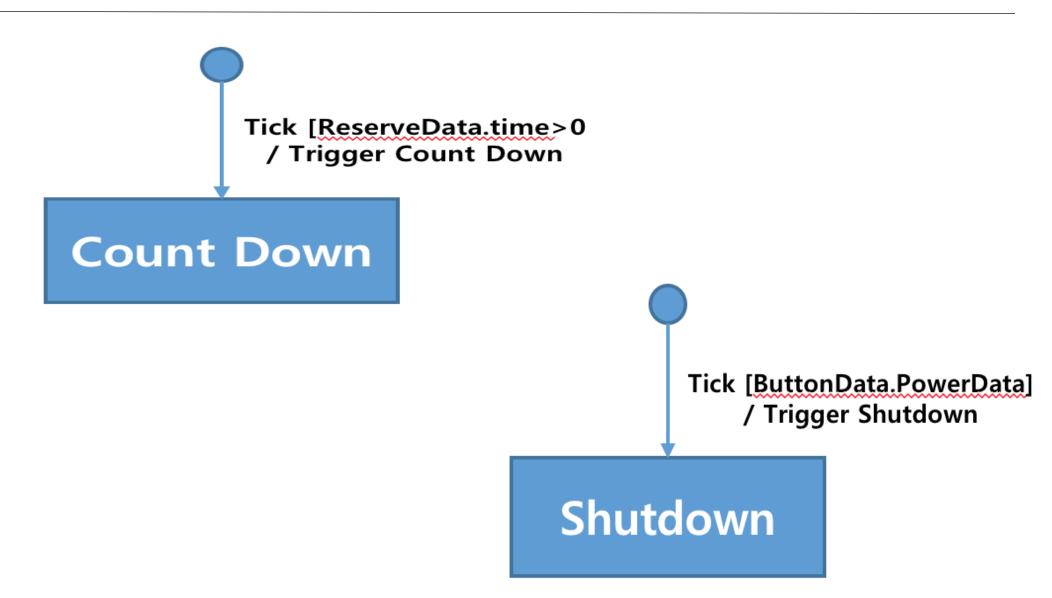
DFD



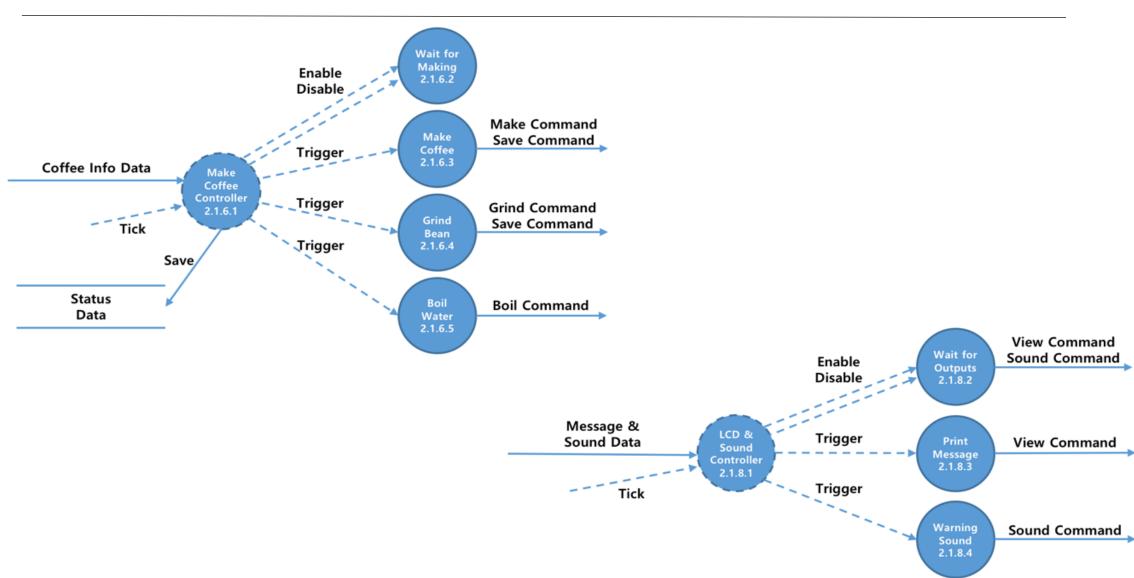
STD(Coffee Machine controller)

```
Tick [!Button Data.Clean Button &&
                                                                Tick [!Button Data.Clean Button &&
 !Button Data.Extract Button &&
                                                                 !Button Data.Extract Button &&
 (Reserve Data.Mode == "Clean"
                                                                 (Reserve Data.Mode == "Make"
                                                                  && Reserve Data.Time <= 0)]
  && Reserve Data.Time <= 0)]
                                                                        / Disable "Wait",
        / Disable "Wait",
                                                              Message & Sound Data ={"추출중", 0},
      Trigger Clean Machine
                                       /Enable "Wait"
    Message & Sound Data =
                                                                       Make Coffee Data =
          {"청소중", 0},
                                                                    {Reserve Data.concentrate,
    Make Coffee Data = \{0.0\}
                                                                    Reserve Data.temperature}
                                           Wait
                                                               Tick [!Button Data.Clean Button &&
   Tick [Button Data.Clean Button]
                                                                  Button Data.Extract Button]
          / Disable "Wait",
                                                                       / Disable "Wait",
                                          Tick
       Trigger Clean Machine
                                                                   Message & Sound Data =
                                     / Enable "Wait",
      Message & Sound Data =
                                                                         {"추출중", 0},
                                 Message & Sound Data
            {"청소중", 0},
                                                                      Make Coffee Data =
                                      {"대기중", 0},
      Make Coffee Data = \{0.0\}
                                                                   {Button Data.concentrate,
                                 Make Coffee Data = \{0,0\}
                                                                   Button Data.temperature
                                            Tick [Status Data == 0]
                                                                      Make Coffee
         Clean
                                               / Enable "Wait",
                                           Message & Sound Data =
       Machine
                                                                        Controller
                                                 {"대기중", 0},
                                           Make Coffee Data = {0,0}
```

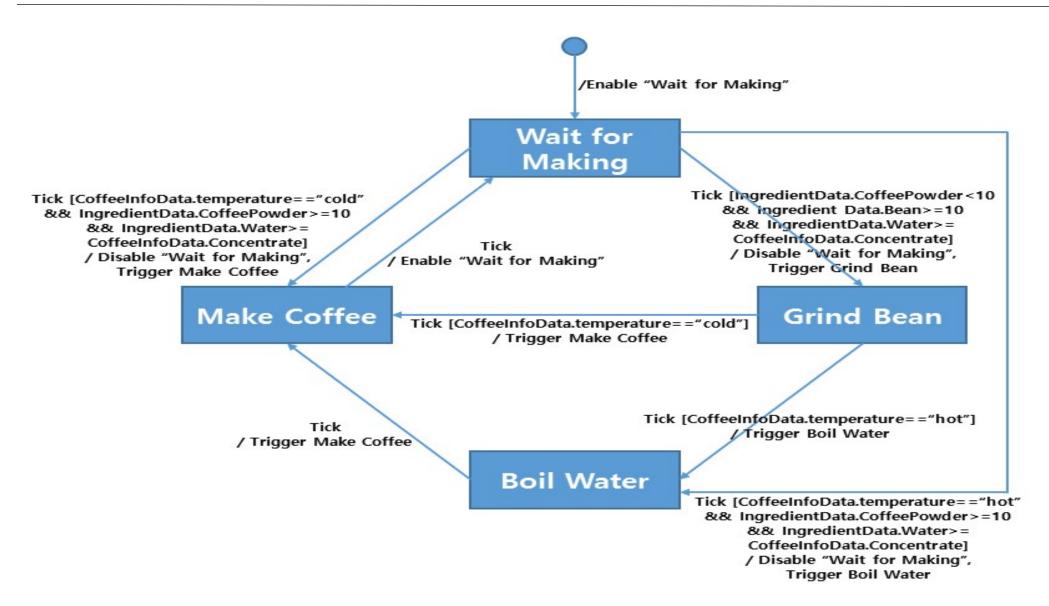
STD(Reserve & Shut Down Controller)



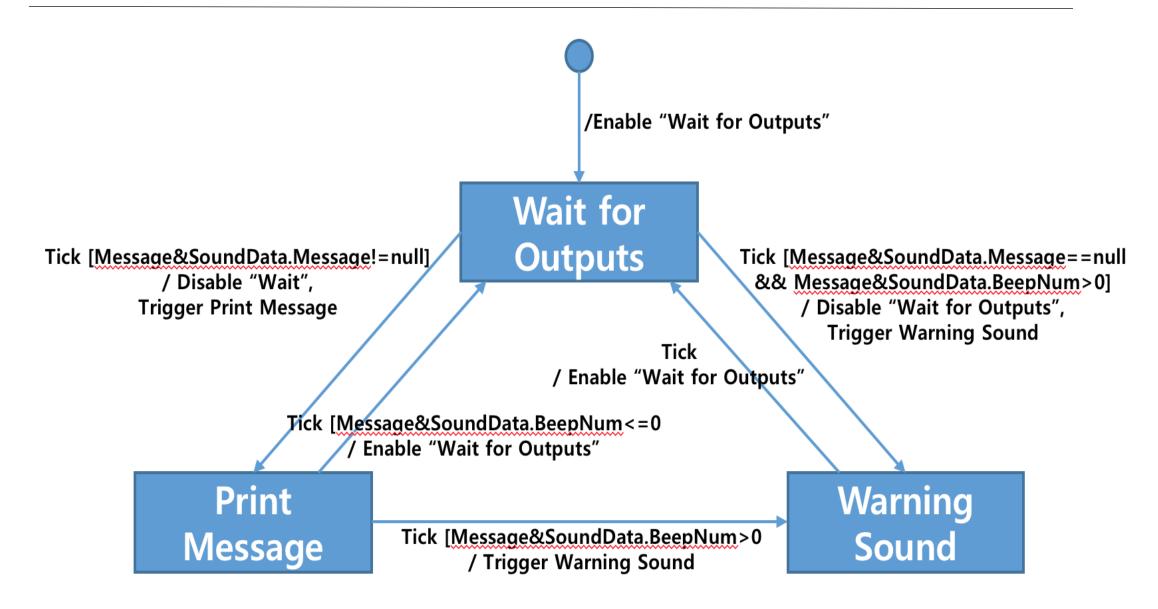
DFD



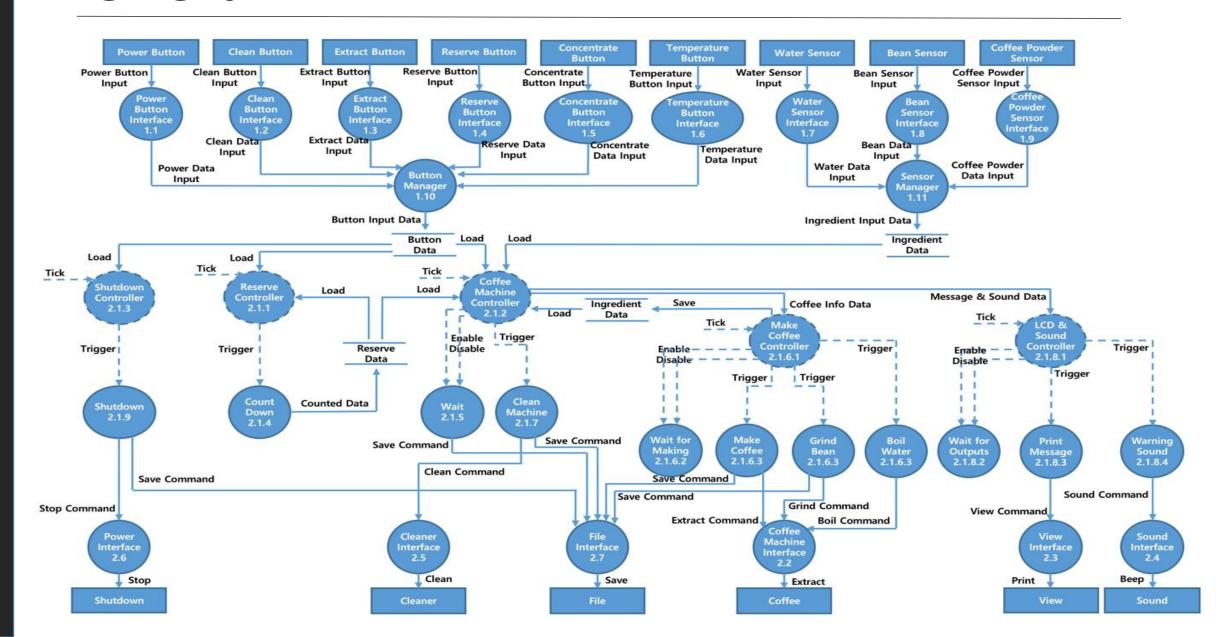
STD(Make Coffee Controller)



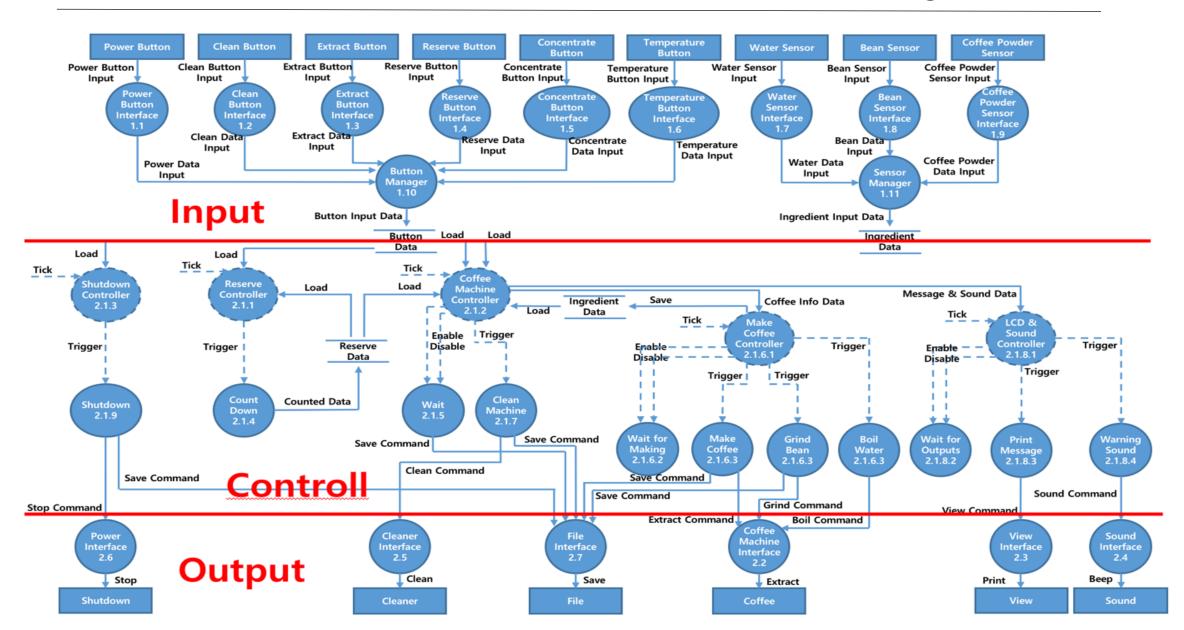
STD(LCD & Sound Controller)



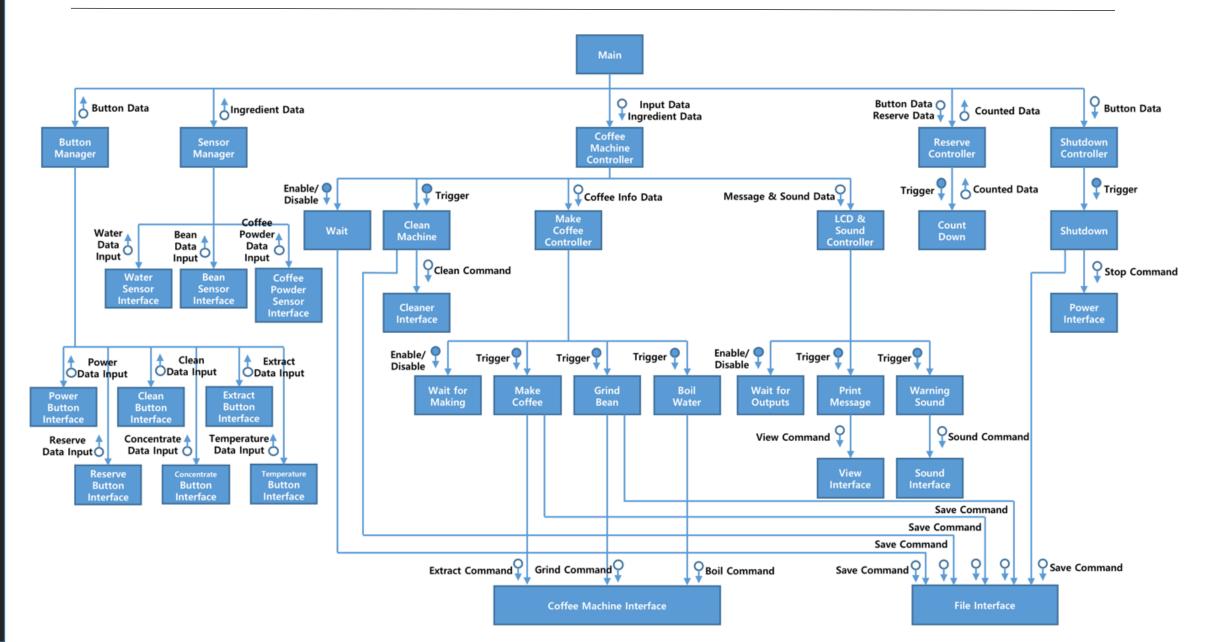
Overall DFD



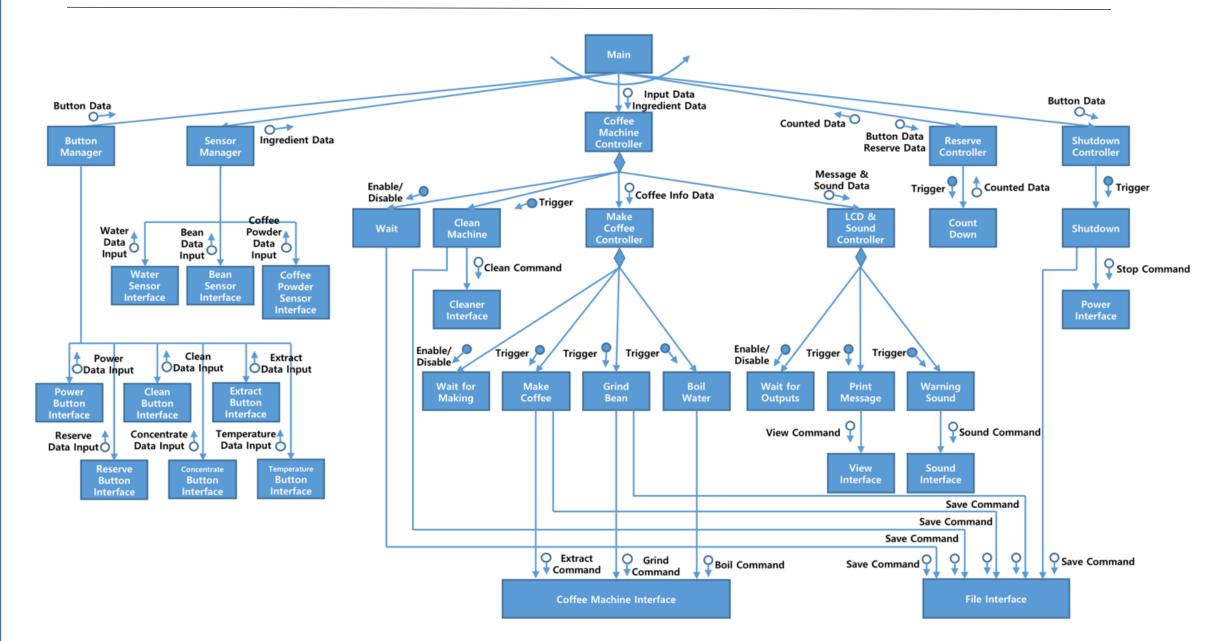
Structured Charts-Transform Analysis



Structured Charts(Basic)



Structured Charts(Advanced)



Thank you.