## View Alarm501-CD-P1 +bindingList: BindingList<Alarm> -PopulateAlarmList() Alarm -TestAlarmStatus() -SnoozeAndStopStatus(sender: object, e: +Info: string<<get,set>> EventArgs) +Time: string<<get,set>> -RunningStatusListener(sender: object, 0..5 +RawTime: DateTime<<get,set>> e: EventArgs) +Set: AlarmStatus<<get,set>> -RunningStatusCheck() -uxAddAlarm\_Click(sender: object, e: +ToString(): string <<override>> EventArgs) Δ -uxEditAlarm\_Click(sender: object, e: EventArgs) -stopButton(sender: object, e: EventArgs) -snoozeButton(sender: object, e: EventArgs) AlarmStatus uxAlarmView -AlarmList<Alarm> BindingList -Edit: bool -Index: int +uxAlarmView(ref al: BindingList<Alarm>)

+uxAlarmView(ref al: BindingList<Alarm>, index: int)

-setButton(object:sender, e: EventArgs)

-cancelButton(sender: object, e:EventArgs)

-SetSelectionOptions()

-UpdateTextFile()

## **Coupling/Cohesion**

Subassemblies: 2

Α

A uX V

С

Classes: 3

C(D) = 2/3 = .667

COHESION:

A;

F(A) = 4

M(A) = 1

H(A) = 1/4 = .25

V:

F(V) = 1

M(V) = 9

H(V) = 9/(9\*1) = 1

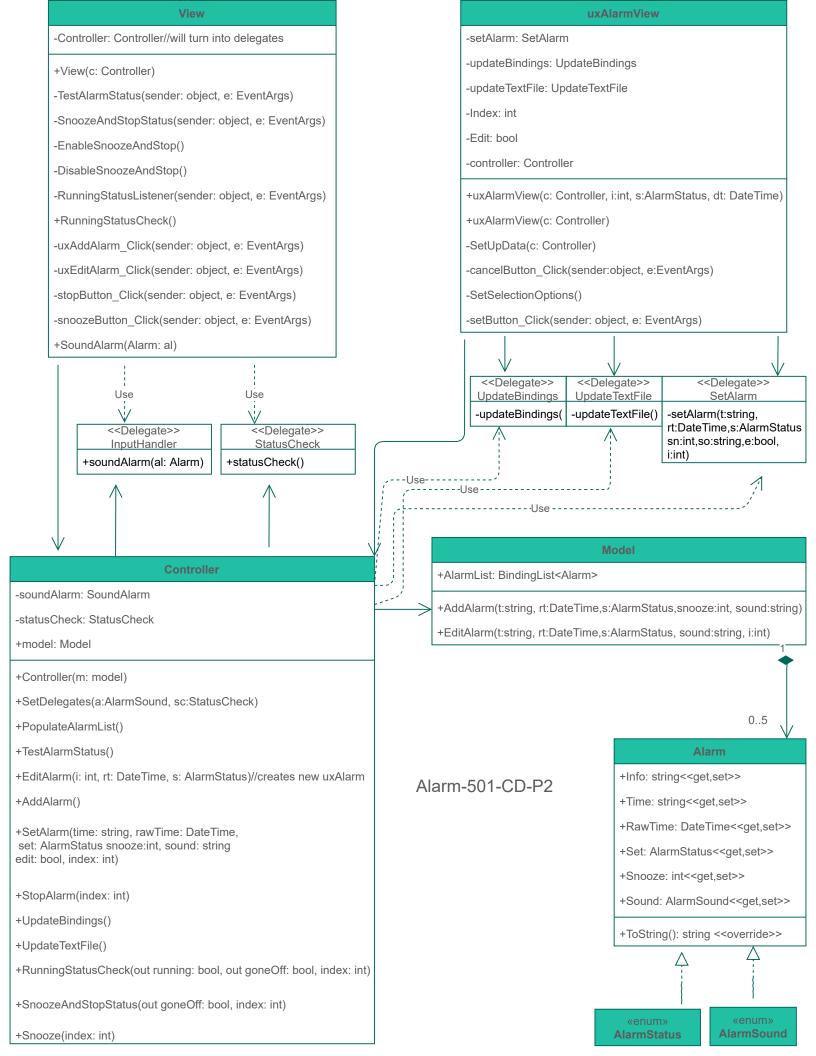
uX:

F(uX) = 3

M(uX) = 6

H(uX) = (4+2+2)/(3\*6) = .444

Class Name Reference: A = Alarm V = View uX = uxAlarmView

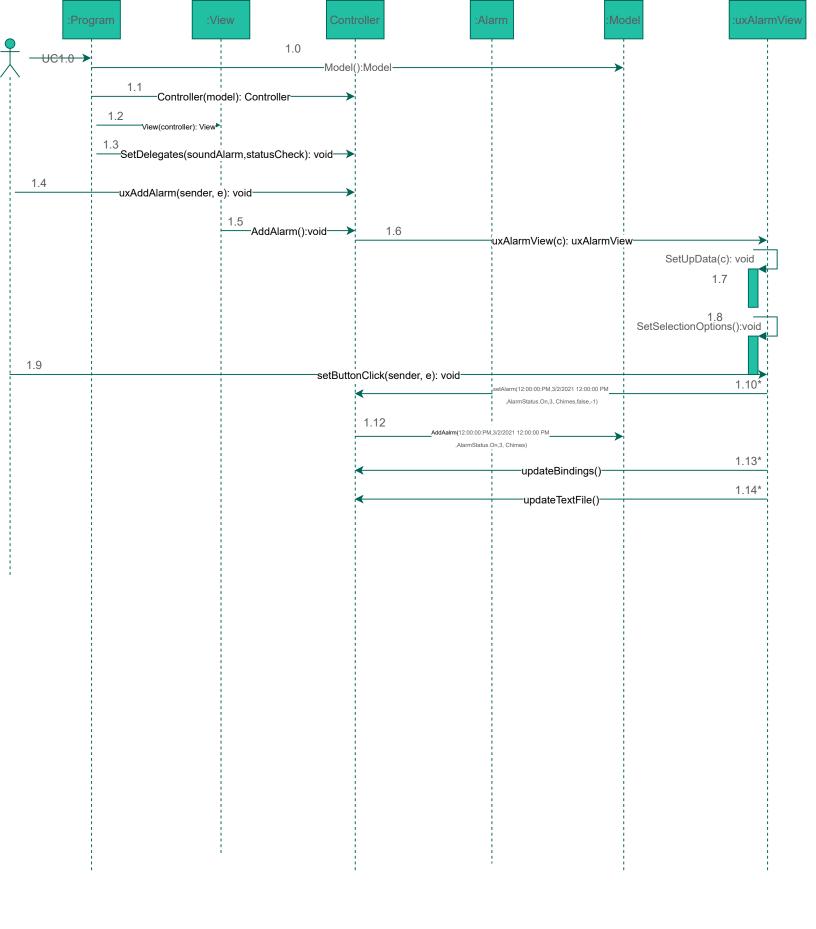


```
Notes:
            Subassemblies:
                   Α
                  AM
                                                          Class Name Reference:
                  AMC
                                                                  A = Alarm
                 VCMA
                                                                C = Controller
                uXCMA
                                                                 M = Model
               AMCVuX
                                                                  V = View
#/Subassemblies= 6, #/Classes = 5
C(D) = 6/5 = 1.25
Cohesion Values:
                                                             uX = uxAlarmView
F(A) = 6
M(A) = 1

H(A) = 1/6 = .167
M:
F(M) = 1
M(M) = 2

H(M) = 2/(2*1) = 1
V:
F(V) = 1
M(V) = 12

H(V) = 7/(12*1) = .583
C:
F(C) = 3
M(C) = 13
H(C) = (2 + 2 + 10)/(39) = .359
uX:
F(uX) = 6
M(uX) = 6
H(uX) = (2+2+2+3+2+2)/(6*6) = .361
```



UC1.0: Set a new alarm with the tine 12:00:00 PM on 3/2/21 that is set to on, has a 3 second snooze period, and a chimes sound