## : System

_____

### Attributes

radio: Radio
clock: Clock
alarm1: Alarm
alarm2: Alarm
volume: int

_____

### Operations

startRadio()
stopRadio()
startTune()
stopTune()
snooze()
switchTimeFormat()
updateTimeFormat()
setTime()
setAlarm()

## : Clock

_____

### Attributes

time: int[]
timeFormat: boolean

_____

### Operations

setTime()
getTime()
switchTimeFormat()

```
: Alarm
_____
         Attributes

alarmTime: int[]
alarmOption: String
sounding: boolean
_____
         Operations

setAlarmTime()
getAlarmTime()
setAlarmOption()
getAlarmOption()
setSounding()
getSounding()
snooze()
```
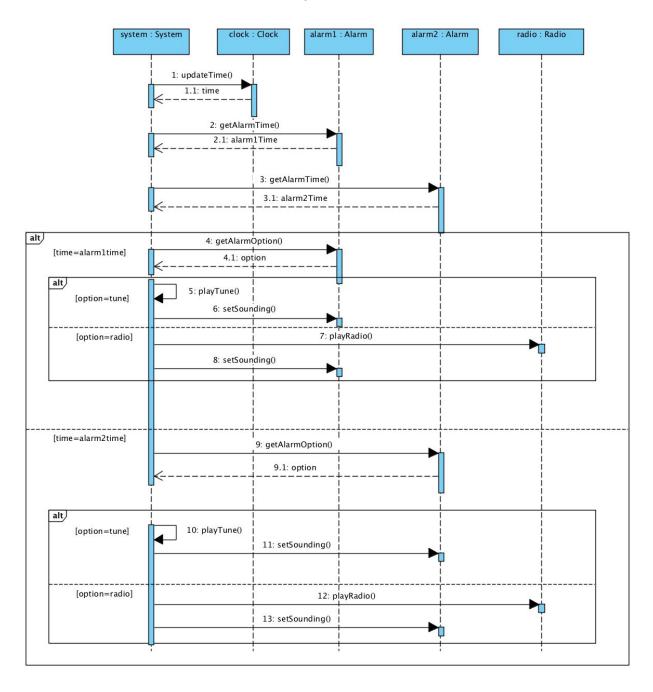
```
: Radio
_____
         Attributes

radioType: String
fmStation: double
amStation: int
_____
         Operations

startRadio()
stopRadio()
incrementStation()
decrementStation()
```

## Checking the Alarms

| system : System | clock : Clock | alarm1 : Alarm | alarm2 : Alarm | radio : Radio |
|---|---|---|---|---|

1: updateTime()

1.1: time

2: getAlarmTime()

2.1: alarm1Time

3: getAlarmTime()

3.1: alarm2Time

**alt**

[time=alarm1time]

4: getAlarmOption()

4.1: option

**alt**

[option=tune]

5: playTune()

6: setSounding()

[option=radio]

7: playRadio()

8: setSounding()

[time=alarm2time]

9: getAlarmOption()

9.1: option

**alt**

[option=tune]

10: playTune()

11: setSounding()

[option=radio]

12: playRadio()

13: setSounding()

# Snoozing the Alarms

| system : System | alarm1 : Alarm | alarm2 : Alarm | : Radio |
|---|---|---|---|

1: snooze()

1.1: stopRadio()

1.1.1: stopRadio()

2: snooze()

2.1: stopRadio()

2.1.1: stopRadio()