

	Boundary Objects	Entity Objects	Controllers				
					Legend		
Name	New Alarm Window	XML	Alarm Manager		Name	Data	Behaviors
Data			HashMap<String, Alarm> alarms ExecutionManager executionManager StorageManager storageManager UIManager uiManager SoundManager soundManager TimeManager (static import)				
Behaviors			isValidFutureDateTime(Date) isUniqueAlarmName(String) isAlarmRecurrent(String) updateAlarmExecution(String) deleteAlarm(String) deleteAlarms() getAlarmInfoList() addAlarmToManage(AlarmDTO) updateAlarmToManage(AlarmDTO)				
Name	Main Application Window	Alarm	Time Manager (Singleton)				
Data		Date date Recurrence alarmRecurrence Integer soundRecurrence String soundName String soundFileLocation String Comments					
Behaviors		getDate() setDate(Date) setAlarmRecurrence(Recurrence) getAlarmRecurrence() setSoundRecurrence(Recurrence) getSoundRecurrence() setSoundName(String) getSoundName() setSoundFileLocation() getSoundFileLocation() setComments(String) getComments()	getCurrentTime()				
Name	Alarm List Window	Sound File DTO	Execution Manager				
Data		String soundName String soundFileLocation Integer soundRecurrence	Deque<AlarmDTO> nextAlarmToExecute (Queue Implementation) AlarmManager alarmManager TimeManager (static import)				
Behaviors			registerAlarmToTrack(AlarmDTO) removeAlarmToTrack() removeAlarmToTrack(AlarmDTO) removeAllAlarmsToTrack() checkTimeAndExecuteAlarm() notifyOfAlarmExecution()				
Name	Error Message Popup	AlarmDTO	Storage Manager				
Data		Date date Recurrence alarmRecurrence Integer soundRecurrence String soundName String Comments	Document xmlDoc				
Behaviors			getStoredAlarms() updateStoredAlarm(AlarmDTO) updateAllStoredAlarms(Set<AlarmDTO>) removeStoredAlarm(AlarmDTO) removeAllStoredAlarms(Set<AlarmDTO>)				
Name	Delete Alarm Popup		UI Manager				
Data			AlarmManager alarmManager TimManager (static import)				

Behaviors			displayNewAlarmWindow() displayMainApplicationWindow() displayAlarmListWindow() displayErrorMessagePopupWindow() displayDeleteAlarmPopupWindow() displayAllAlarmsPopupWindow() displayJavaClockWindow() displayAlarmExecutionWindow()				
Name	Delete All Alarms Popup		Sound Manager				
Data			HashMap<String, SoundFileDTO> sound				
Behaviors			setSound(String alarmName, soundFileDTO) isSoundFound(String location) isSoundValid(String location) playSound(String alarmName) stopPlayingAllSounds() removeSound(String alarmName) removeAllSoundsExceptDefault()				
Name	Java Clock Window						
Data							
Behaviors							
Name	Alarm Execution Window						
Data							
Behaviors							