Domain Model

Simulator

formatter

getCommands(Commands)
processCommand(Commands)
Simulator() (for GUI)

ChronoTimer

ChronoTimerName

power()
connectChannel(Channel, Runner)
setEvent(event)
setRace()
toggle(Channel)
setRunner(Runner num)
clear(Runner num)
trigger(Channel, Runner)
groupTrigger(Channel,Racer)
cancel()
print()
Dnf()

Current State

Race

raceType
runNumber

addRacer(Racer)

1   0...3

1   1

Channel

channelNum
enable

toggle()
trigger()
connect(Sensor)
disconnect(Sensor)

1   0...8

Time

millis
seconds
minutes
hours

Time()
Differences(startTime, endTime)

Racer

racerName
racerNum
startTime
endTime

setRunning()
finished(Time)
finishTime()

1   0...*

0...*   1

GSON
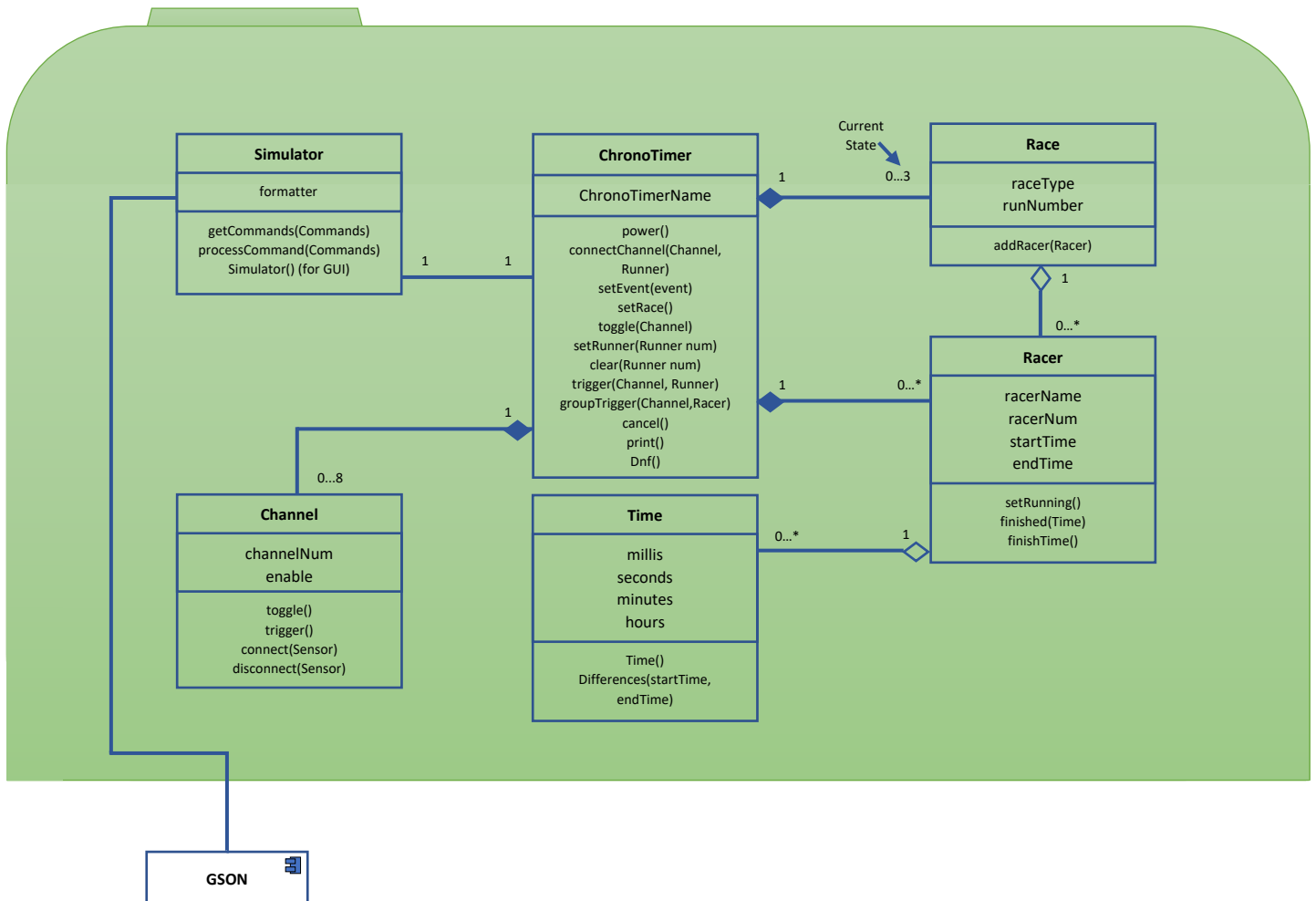
Added two new methods in ChronoTimer (setEvent and groupTrigger) to handle the group race event. Added another raceType for group races in the Race class. Also we combined the Simulator and the ChronoController class into one and added GUI into the Simulator class.