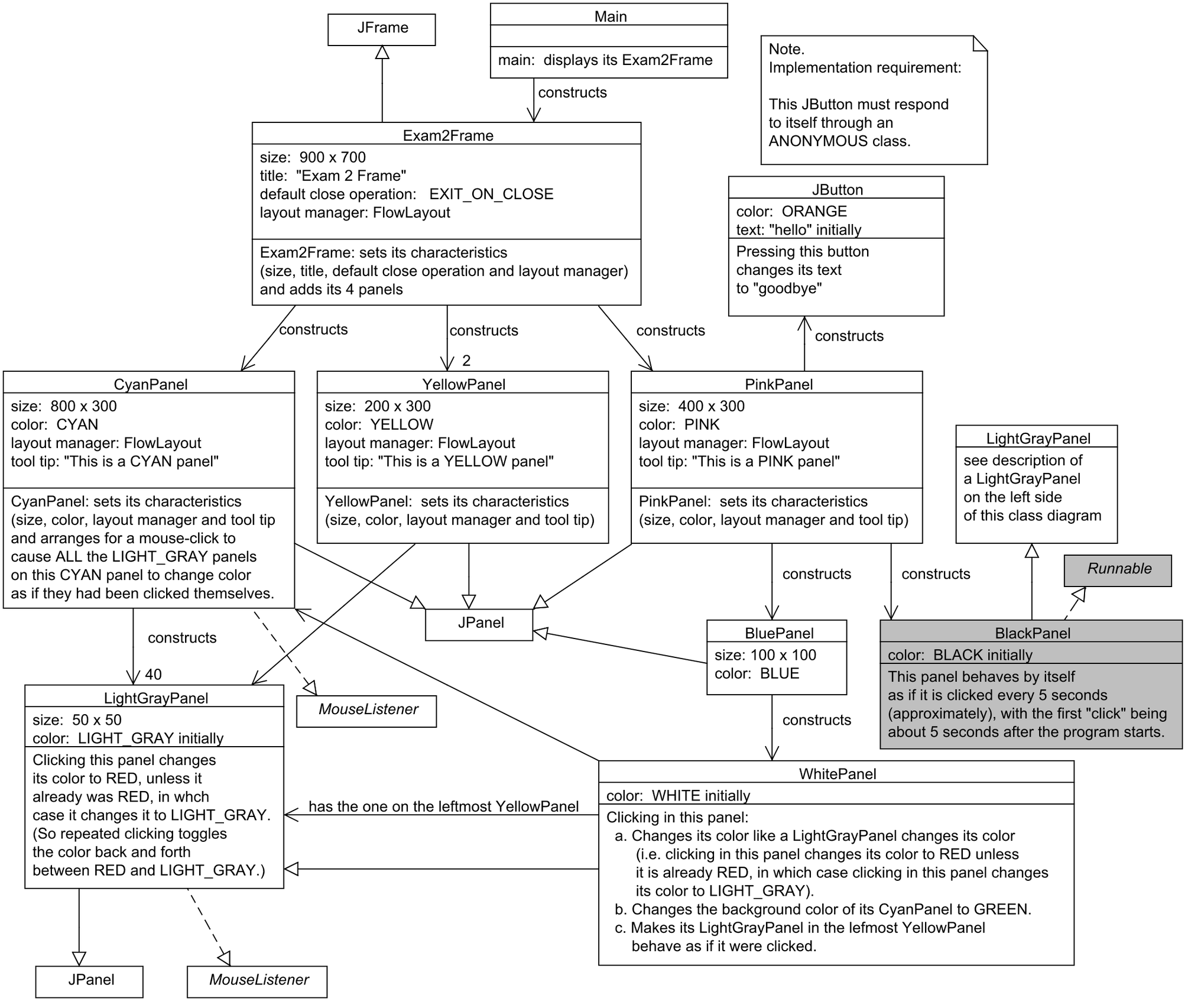
JFrame
Main
main: displays its Exam2Frame
constructs
Note.
Implementation requirement:
This JButton must respond to itself through an ANONYMOUS class.
Exam2Frame
size: 900 x 700
title: "Exam 2 Frame"
default close operation: EXIT_ON_CLOSE
layout manager: FlowLayout
Exam2Frame: sets its characteristics (size, title, default close operation and layout manager) and adds its 4 panels
JButton
color: ORANGE
text: "hello" initially
Pressing this button changes its text to "goodbye"
constructs
constructs
constructs
constructs
2
CyanPanel
size: 800 x 300
color: CYAN
layout manager: FlowLayout
tool tip: "This is a CYAN panel"
CyanPanel: sets its characteristics (size, color, layout manager and tool tip and arranges for a mouse-click to cause ALL the LIGHT_GRAY panels on this CYAN panel to change color as if they had been clicked themselves.
YellowPanel
size: 200 x 300
color: YELLOW
layout manager: FlowLayout
tool tip: "This is a YELLOW panel"
YellowPanel: sets its characteristics (size, color, layout manager and tool tip)
PinkPanel
size: 400 x 300
color: PINK
layout manager: FlowLayout
tool tip: "This is a PINK panel"
PinkPanel: sets its characteristics (size, color, layout manager and tool tip)
LightGrayPanel
see description of a LightGrayPanel on the left side of this class diagram
Runnable
constructs
constructs
JPanel
BluePanel
size: 100 x 100
color: BLUE
BlackPanel
color: BLACK initially
This panel behaves by itself as if it is clicked every 5 seconds (approximately), with the first "click" being about 5 seconds after the program starts.
constructs
40
MouseListener
constructs
LightGrayPanel
size: 50 x 50
color: LIGHT_GRAY initially
Clicking this panel changes its color to RED, unless it already was RED, in whch case it changes it to LIGHT_GRAY. (So repeated clicking toggles the color back and forth between RED and LIGHT_GRAY.)
has the one on the leftmost YellowPanel
WhitePanel
color: WHITE initially
Clicking in this panel:
a. Changes its color like a LightGrayPanel changes its color (i.e. clicking in this panel changes its color to RED unless it is already RED, in which case clicking in this panel changes its color to LIGHT_GRAY).
b. Changes the background color of its CyanPanel to GREEN.
c. Makes its LightGrayPanel in the lefmost YellowPanel behave as if it were clicked.
JPanel
MouseListener