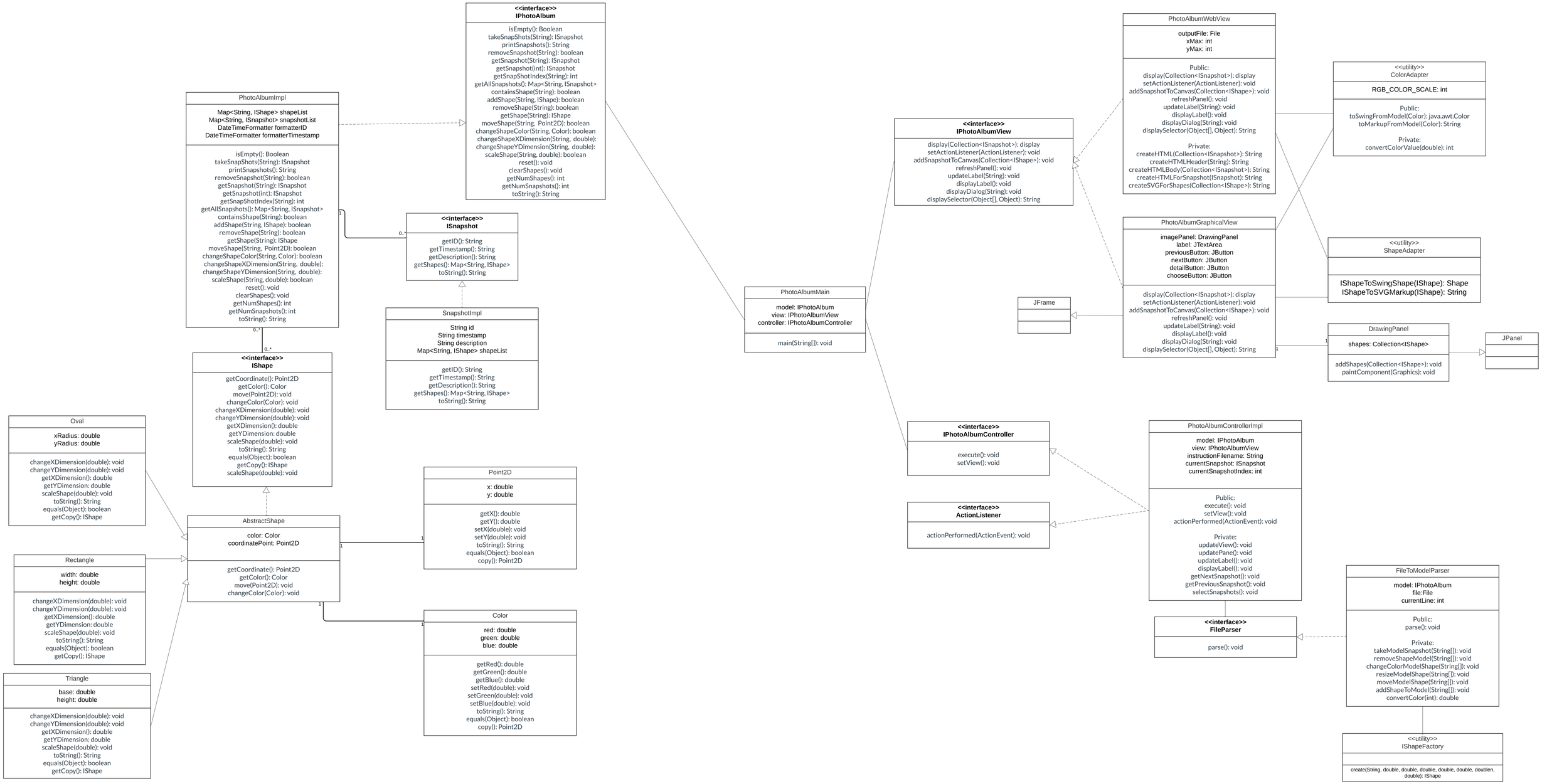
PhotoAlbumImpl
Map<String, IShape> shapeList
Map<String, ISnapshot> snapshotList
DateTimeFormatter formatterID
DateTimeFormatter formatterTimestamp
isEmpty(): Boolean
takeSnapShots(String): ISnapshot
printSnapshots(): String
removeSnapshot(String): boolean
getSnapshot(String): ISnapshot
getSnapshot(int): ISnapshot
getSnapShotIndex(String): int
getAllSnapshots(): Map<String, ISnapshot>
containsShape(String): boolean
addShape(String, IShape): boolean
removeShape(String): boolean
getShape(String): IShape
moveShape(String, Point2D): boolean
changeShapeColor(String, Color): boolean
changeShapeXDimension(String, double):
changeShapeYDimension(String, double):
scaleShape(String, double): boolean
reset(): void
clearShapes(): void
getNumShapes(): int
getNumSnapshots(): int
toString(): String
<<interface>>
IPhotoAlbum
isEmpty(): Boolean
takeSnapShots(String): ISnapshot
printSnapshots(): String
removeSnapshot(String): boolean
getSnapshot(String): ISnapshot
getSnapshot(int): ISnapshot
getSnapShotIndex(String): int
getAllSnapshots(): Map<String, ISnapshot>
containsShape(String): boolean
addShape(String, IShape): boolean
removeShape(String): boolean
getShape(String): IShape
moveShape(String, Point2D): boolean
changeShapeColor(String, Color): boolean
changeShapeXDimension(String, double):
changeShapeYDimension(String, double):
scaleShape(String, double): boolean
reset(): void
clearShapes(): void
getNumShapes(): int
getNumSnapshots(): int
toString(): String
1
0..*
<<interface>>
ISnapshot
getID(): String
getTimestamp(): String
getDescription(): String
getShapes(): Map<String, IShape>
toString(): String
SnapshotImpl
String id
String timestamp
String description
Map<String, IShape> shapeList
getID(): String
getTimestamp(): String
getDescription(): String
getShapes(): Map<String, IShape>
toString(): String
0..*
0..*
<<interface>>
IShape
getCoordinate(): Point2D
getColor(): Color
move(Point2D): void
changeColor(Color): void
changeXDimension(double): void
changeYDimension(double): void
getXDimension(): double
getYDimension: double
scaleShape(double): void
toString(): String
equals(Object): boolean
getCopy(): IShape
scaleShape(double): void
Oval
xRadius: double
yRadius: double
changeXDimension(double): void
changeYDimension(double): void
getXDimension(): double
getYDimension: double
scaleShape(double): void
toString(): String
equals(Object): boolean
getCopy(): IShape
AbstractShape
color: Color
coordinatePoint: Point2D
getCoordinate(): Point2D
getColor(): Color
move(Point2D): void
changeColor(Color): void
1
1
Point2D
x: double
y: double
getX(): double
getY(): double
setX(double): void
setY(double): void
toString(): String
equals(Object): boolean
copy(): Point2D
1
1
Color
red: double
green: double
blue: double
getRed(): double
getGreen(): double
getBlue(): double
setRed(double): void
setGreen(double): void
setBlue(double): void
toString(): String
equals(Object): boolean
copy(): Point2D
Rectangle
width: double
height: double
changeXDimension(double): void
changeYDimension(double): void
getXDimension(): double
getYDimension: double
scaleShape(double): void
toString(): String
equals(Object): boolean
getCopy(): IShape
Triangle
base: double
height: double
changeXDimension(double): void
changeYDimension(double): void
getXDimension(): double
getYDimension: double
scaleShape(double): void
toString(): String
equals(Object): boolean
getCopy(): IShape
PhotoAlbumMain
model: IPhotoAlbum
view: IPhotoAlbumView
controller: IPhotoAlbumController
main(String[]): void
<<interface>>
IPhotoAlbumView
display(Collection<ISnapshot>): display
setActionListener(ActionListener): void
addSnapshotToCanvas(Collection<IShape>): void
refreshPanel(): void
updateLabel(String): void
displayLabel(): void
displayDialog(String): void
displaySelector(Object[], Object): String
PhotoAlbumWebView
outputFile: File
xMax: int
yMax: int
Public:
display(Collection<ISnapshot>): display
setActionListener(ActionListener): void
addSnapshotToCanvas(Collection<IShape>): void
refreshPanel(): void
updateLabel(String): void
displayLabel(): void
displayDialog(String): void
displaySelector(Object[], Object): String
Private:
createHTML(Collection<ISnapshot>): String
createHTMLHeader(String): String
createHTMLBody(Collection<ISnapshot>): String
createHTMLForSnapshot(ISnapshot): String
createSVGForShapes(Collection<IShape>): String
<<utility>>
ColorAdapter
RGB_COLOR_SCALE: int
Public:
toSwingFromModel(Color): java.awt.Color
toMarkupFromModel(Color): String
Private:
convertColorValue(double): int
PhotoAlbumGraphicalView
imagePanel: DrawingPanel
label: JTextArea
previousButton: JButton
nextButton: JButton
detailButton: JButton
chooseButton: JButton
display(Collection<ISnapshot>): display
setActionListener(ActionListener): void
addSnapshotToCanvas(Collection<IShape>): void
refreshPanel(): void
updateLabel(String): void
displayLabel(): void
displayDialog(String): void
displaySelector(Object[], Object): String
<<utility>>
ShapeAdapter
IShapeToSwingShape(IShape): Shape
IShapeToSVGMarkup(IShape): String
JFrame
1
1
DrawingPanel
shapes: Collection<IShape>
addShapes(Collection<IShape>): void
paintComponent(Graphics): void
JPanel
<<interface>>
IPhotoAlbumController
execute(): void
setView(): void
<<interface>>
ActionListener
actionPerformed(ActionEvent): void
PhotoAlbumControllerImpl
model: IPhotoAlbum
view: IPhotoAlbumView
instructionFilename: String
currentSnapshot: ISnapshot
currentSnapshotIndex: int
Public:
execute(): void
setView(): void
actionPerformed(ActionEvent): void
Private:
updateView(): void
updatePane(): void
updateLabel(): void
displayLabel(): void
getNextSnapshot(): void
getPreviousSnapshot(): void
selectSnapshots(): void
<<interface>>
FileParser
parse(): void
FileToModelParser
model: IPhotoAlbum
file:File
currentLine: int
Public:
parse(): void
Private:
takeModelSnapshot(String[]): void
removeShapeModel(String[]): void
changeColorModelShape(String[]): void
resizeModelShape(String[]): void
moveModelShape(String[]): void
addShapeToModel(String[]): void
convertColor(int): double
<<utility>>
IShapeFactory
create(String, double, double, double, double, double, doublen, double): IShape