Image Album App

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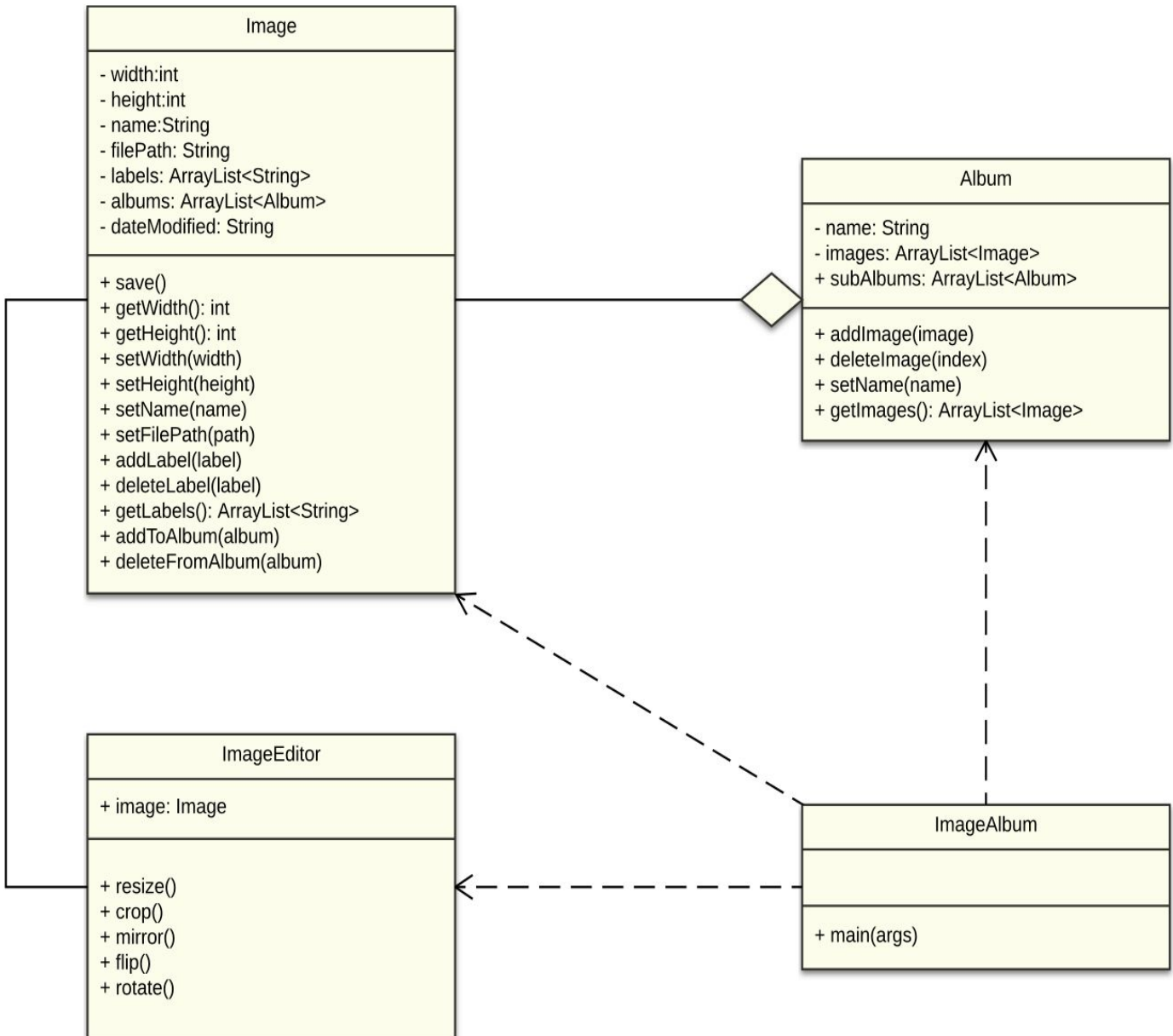
Class table and description

ImageAlbum: The main method will be in this class, it uses all other classes.

Image: represents the image, stores data about the image

Album: A collection of Image objects, can add and delete images from that collection. aggregates Image objects

ImageEditor: manipulates images. Stores a reference of the image being edited.

Class diagram

Image

- width:int
- height:int
- name:String
- filePath: String
- labels: ArrayList<String>
- albums: ArrayList<Album>
- dateModified: String

+ save()
+ getWidth(): int
+ getHeight(): int
+ setWidth(width)
+ setHeight(height)
+ setName(name)
+ setFilePath(path)
+ addLabel(label)
+ deleteLabel(label)
+ getLabels(): ArrayList<String>
+ addToAlbum(album)
+ deleteFromAlbum(album)

Album

- name: String
- images: ArrayList<Image>
+ subAlbums: ArrayList<Album>

+ addImage(image)
+ deleteImage(index)
+ setName(name)
+ getImages(): ArrayList<Image>

ImageEditor

+ image: Image

+ resize()
+ crop()
+ mirror()
+ flip()
+ rotate()

ImageAlbum

+ main(args)

Sequence Diagram

anImageAlbum	anImage	anAlbum

addToAlbum() → addImage() →

deleteFromAlbum() → deleteImage() →

anImageAlbum	anImageEditor	anImage

resize() → setWidth() →

setHeight() →