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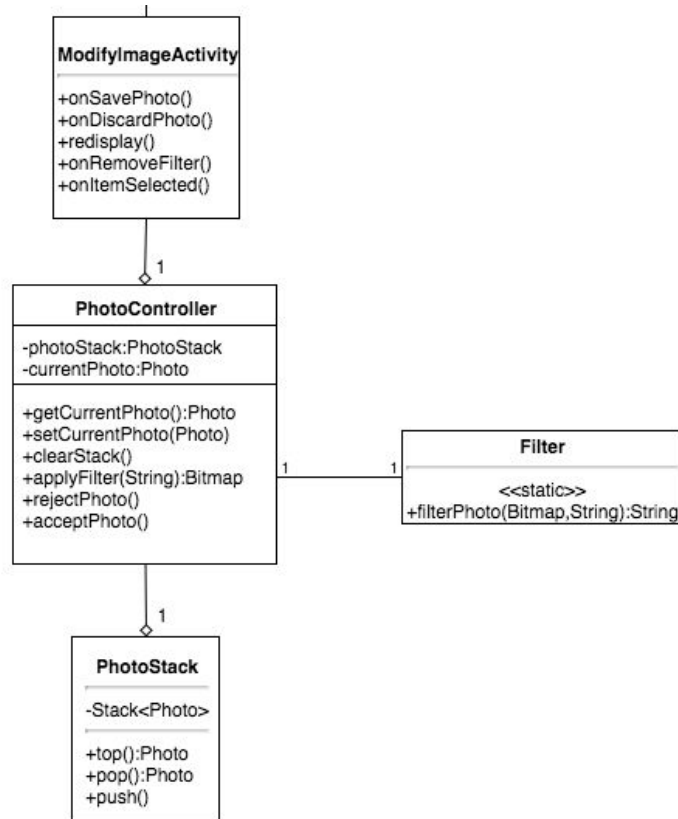
Overview

- Android image processing App
- Take a new photo or load photo from gallery
- Apply multiple filters seamlessly, quickly revert undesired filters

Use Case (Modify Image)

Actors:	Android App User																
Preconditions:	- User has selected photo to manipulate																
Postconditions:	- User can save/view their manipulated image																
Frequency of Use:	High																
Flow of Events:	<table><thead><tr><th></th><th>Actor Action</th><th>System Response</th></tr></thead><tbody><tr><td>1.</td><td>Select photo</td><td>User takes a new photo or selects one from the gallery.</td></tr><tr><td>2.</td><td>User applies filter</td><td>Filtered image is displayed</td></tr><tr><td>3.</td><td>Save image</td><td>Save edited image to file system with feedback.</td></tr><tr><td>4.</td><td>Delete image</td><td>Restore and display original image.</td></tr></tbody></table>			Actor Action	System Response	1.	Select photo	User takes a new photo or selects one from the gallery.	2.	User applies filter	Filtered image is displayed	3.	Save image	Save edited image to file system with feedback.	4.	Delete image	Restore and display original image.
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Class Diagram (Modify Image)





Design Patterns Used: Observer

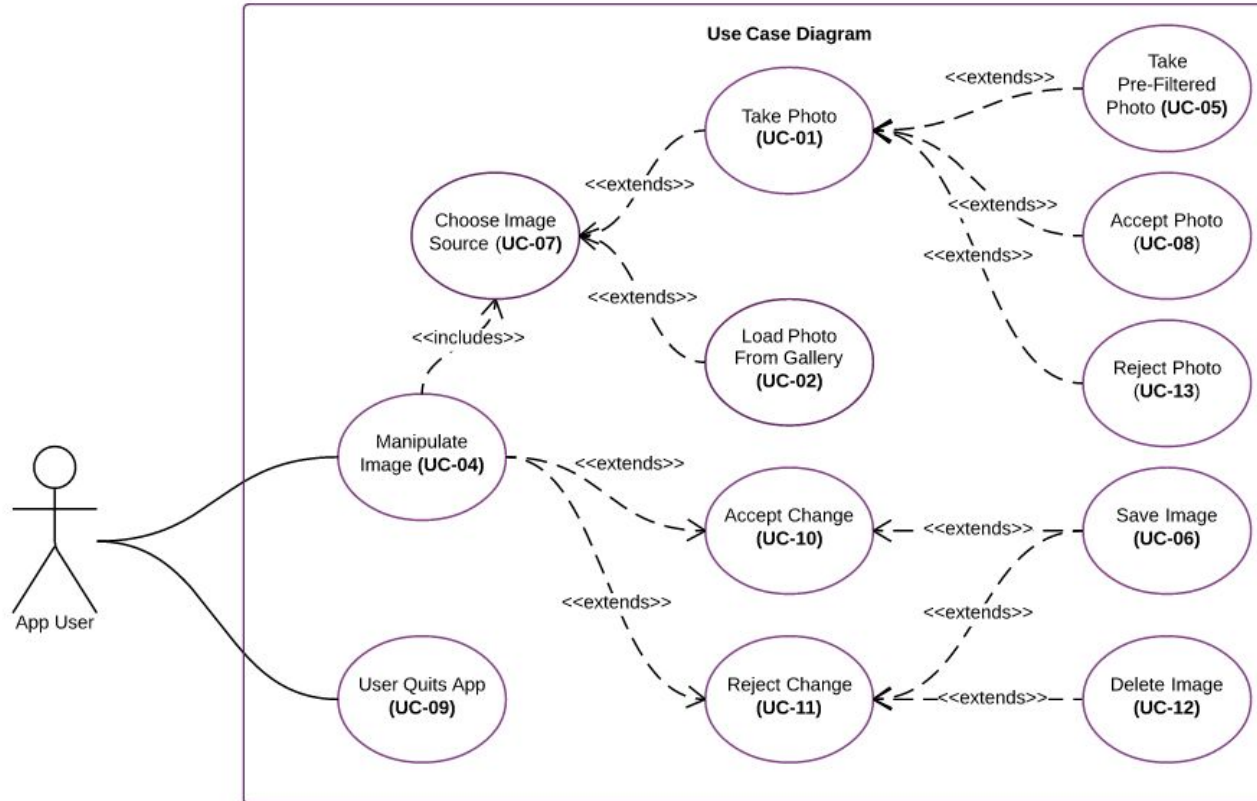
- Used for buttons and dropdown menus
- Created callback for each button
- Needed for user input



Design Patterns Used: Memento

- Memento is used to save state of Photo object, in order to undo complex filter operations
- State of Photo object is saved after each filter operation
- When user reverts changes the PhotoController uses the PhotoStack to change the state of the Photo object

Use Case Diagram



Demonstration

