Use case table template

Use Case Number:	
Use Case Name:	
Participating Actors:	
Goal:	
Trigger:	
Precondition:	
Postcondition:	
Basic Flow	
Exceptions	
Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	
Related Artifacts:	
Notes:	
Open Issues:	

Use Case Number:	1	
Use Case Name:	Start Skin Observer application	
Participating Actors:	main user (patient)	
Goal:	initialize storage methods/check for previously stored data, open up the application for the user	
Trigger:	this user clicks the app from the android app menu list	
Precondition:	none	
Postcondition:	The application is now at start up	
Basic Flow	1/ User click application icon 2/ Application is launched	
Exceptions	2.1/ application fails to launch display error message	
Qualities:	System responds within 1s	
Functionality:	The application has: search/add/delete/view/edit> 1/ search: photo, skin condition, group> 2/ create: a photo, a skin condition(entry)> 3/ add: entries to group, photos to entries> 4/ delete: photos, entries, groups> 5/ view: photos, skin conditions, groups,> 6/ edit: photos, skin conditions, groups	
Constraints:	The UI looks aesthetically pleasing	
Includes:		
Extends:		
Related Artifacts:	As a user, I want to keep a visual log of any skin conditions I might. The purpose could be to gather a personal history of a medical condition as to provide evidence to a physician.	
Notes:	We'll add details into each function later -Tests for use case 1- 1/ check if the application launches properly 2/ check if all the GUI and make sure it works 3/ check if the application closes without errors	

Open Issues:		
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Use Case Number:	2
Use Case Name:	Take Photo
Participating Actors:	main User (patient)
Goal:	Allow the User to take a photo, and then have the application store the photo with a storage method.
Trigger:	The User chooses <u>take photo</u> option.
Precondition:	User knows the target area; there is a camera.
Postcondition:	On success, all relevant information of the captured photo is stored.
Basic Flow	1/ User takes a photo 2/ Use case 3: Timestamp A Photo 3/ System displays the taken photo 4/ System prompts the User to enter the name of a new <i>skin condition</i> or to choose some existing <i>skin condition</i> that the taken photo refers to 5/ User enters the name of a new <i>skin condition</i> or choose some existing <i>skin condition</i> 6/ System prompts the User to enter the name of a new <i>group</i> or to choose some existing <i>group</i> for the taken photo 7/ User enters the name of a new <i>group</i> or choose some existing <i>group</i> 8/ System saves the taken photo
Exceptions	1/ If the camera malfunctions 1.1/ System displays an error 1.2/ System returns to the previous activity 8/ If the System can't save the taken photo due to perhaps insufficient amount of storage 8.1/ System displays an error 8.2/ System prompts the User to clear some memory or to discard the taken photo 8.3/ If the User chooses <i>clear some memory</i> return to step 3 8.4/ If the User chooses <i>discard the taken photo</i> return to the previous

	activity
Qualities:	The system must notify the user the image has been stored successfully.
Functionality:	
Constraints:	
Includes:	Timestamp A Photo
Extends:	
Related Artifacts:	As a user, I want pictures I take to be stored so that I may recall them and view them later. Camera
Notes:	-Tests for use case 2- 1/ verify the application can capture an image with its camera 2/ verify the photo can be displayed on screen 3/ test to see if all user interaction with the User Interface works correctly such as user input, and the user selections on the skin condition, and group options. 4/ verify that the picture can be stored 5/ verify that the picture can be reloaded after being stored 6/ verify how the program handles running out of memory to store a new photo
Open Issues:	Should the user be allowed to name a photo or the system automatically names the photo?

Use Case Number:	3
Use Case Name:	Timestamp A Photo
Participating Actors:	This is done automatically by the system
Goal:	Timestamp A Photo

Trigger:	The User has taken a photo
Precondition:	The photo is taken successfully by the camera
Postcondition:	On success, System automatically records the time stamp of the taken photo
Basic Flow	1/ Use case 2 2/ System automatically records the time stamp on and add to the taken photo
Exceptions	2/ If the System cannot add a time stamp2.1/ System notifythe user that it cannot record the time stamp.2.2/ System does not record time stamp of the photo.
Qualities:	Time stamp is recoded with the following format HH:MM DD/MM/YYYY
Functionality:	
Constraints:	
Includes:	
Extends:	
Related Artifacts:	As a user, I want all pictures I take to be timestamped so that I can measure the time between photos and know when an event occurred.
Notes:	This use case is an activity inside of the "take a photo" class, it will automatically add a timestamp to any photos taken by the user that they wish to save to memory, there are many simple java methods to implement this task. -Tests for use case 3- 1/ check that stored photos have a time stamp 2/ check that they have the correct time stamp
Open Issues:	

Use Case Number:	4
Use Case Name:	View Photo
Participating Actors:	main User (patient)
Goal:	Allow the User to review a taken photo
Trigger:	The User chooses <u>view photo</u> option
Precondition:	User knows which photo he/she wishes to review
Postcondition:	On success, all relevant information of the captured photo (skin condition, body part and timestamp) is displayed
Basic Flow	1/ System prompts the User to choose a photo to view 2/ User chooses a photo to view 3/ System displays the chosen photo
Exceptions	3/ If the System cannot display the chosen photo because the photo may not exist or it may be broken 3.1/ System notify the user that it cannot display the chosen image 3.2/ System returns to step 1
Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	
Related Artifacts:	As a user, I want to be able to review any photos I have taken and view them so that I can see any changes.

Notes:	-Tests for use case 4- 1/ verify the user may view a photo
Open Issues:	

Use Case Number:	5	
Use Case Name:	Compare Two Photos	
Participating Actors:	main User	
Goal:	View two photos simultaneously to observe any change of some skin condition	
Trigger:	The User chooses <u>compare multiple photos</u> option	
Precondition:	The User knows up front which photos he/she wishes to compare	
Postcondition:	On success, System displays two photos simultaneously	
Basic Flow	1/ User choose to view all photos OR to choose a <i>skin condition</i> in a list to show all photos of the chosen <i>skin condition</i> (<i>use case View skin condition</i>) OR to choose a <i>group</i> in a list to show all photos of the chosen <i>group</i> (<i>use case View group</i>) 2/ System prompts User to choose two photos for comparison 3/ User choose to compare photos 4/ System shows two photos simultaneously by default setting 5/ User to choose type of view (side-by-side or overlay) 6/ System shows photos side-by-side or overlay depending on User's choice	
Exceptions	2/ User chooses one or more than two photos 2.1/ Ask the user to choose two photos to compare	
Qualities:		
Functionality:		

Constraints:	Only 2 photos can be viewed simultaneously
Includes:	
Extends:	
Related Artifacts:	As a user, I want a method to organize these pictures so that I can view pictures of the same bit of skin over time and see if there is any progression or growth. For instance I might want to organize some photos that are related to my "gross mole that occurs on my right hand".
Notes:	We need some method to list the photos, and we need some method to order the list, like a SQL ORDER BY command. -Tests for use case 5- 1/ verify the application can display two photos properly 2/ verify the program acts appropriately when the user only has 0 images, and when the user only has 1 image 3/ verify the user can choose two photos 4/ verify the view works properly for displaying the two photos
Open Issues:	Comparison of more than 2 photos will be considered.

Use Case Number:	6
Use Case Name:	Add Photo to a Group
Participating Actors:	main User (patient)
Goal:	Add a photo to an existing group or a new group
Trigger:	User selects add photo to group
Precondition:	User knows which photo to add to some group
Postcondition:	On success, the chosen photo is added to some group

Basic Flow	1/ System prompts the User to choose a photo 2/ User selects a photo 3/ System prompts User to assign some existing <i>group</i> or create a new <i>group</i> for the chosen photo 4/ The user chooses existing <i>group</i> or the newly created <i>group</i> for the taken photo
Exceptions	3/ If there is an error when making a new group 3.1/ System shows the error message 3.2/ Return to the previous activity
Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	
Related Artifacts:	As a user if I have an organizational tag or group, I want to be able to add photos to that group so that I can further track the progression of something relevant to that group. # This use case happens when the user hasn't placed some photo in a group when the photo was taken
Notes:	-Tests for use case 6- 1/ verify that a photo can be added to a group 2/ handle the null case, where the user tries to add null to a group?
Open Issues:	

Use Case Number:	7
Use Case Name:	Create Transparent Layer

Participating Actors:	User
Goal:	Use some photo as a transparent layer to help user take a new photo in the same position as the layer
Trigger:	User selects transparent layer option inside the taking photo view
Precondition:	User knows the photo to make it a transparent layer
Postcondition:	On success, a transparent layer appears on a screen
Basic Flow	1/ System prompts the User to choose a photo 2/ User selects a photo 3/ System displays the <i>transparent layer</i> on the screen
Exceptions	3/ If there is an error when making a new group 3.1/ System shows the error message 3.2/ Return to the previous activity
Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	Take Photo
Related Artifacts:	As a user, I want some method of helping me take consistent photos, so that when I show the doctor any progression such as the growth of a mole is evident.

Notes:	This use case happens when the user wishes to take a new photo based on some existing photo of the same skin condition. -Tests for use case 7- 1/ verify that the layer works 2/ verify a photo can still be capture with the layer 3/ handle the case when no photos are present for the user to use as a layer
Open Issues:	This use case requires knowledge of image processing, thus it will be added later if possible.

Use Case Number:	8
Use Case Name:	Create Reminder
Participating Actors:	User
Goal:	Remind user of taking photo of some skin condition regularly
Trigger:	User choose set reminder option
Precondition:	User knows the skin condition and the group
Postcondition:	The System sets the alarm to remind User of taking photo and specify the skin condition and group automatically based on the info of the alarm
Basic Flow	1/ System prompts the User to choose the skin condition in a list 2/ User chooses some skin condition 3/ System prompts the User to choose the group in a list 4/ User chooses some group 5/ System prompts the User to enter other information of the alarm: time, repetition, name, additional info. 6/ User change the default value of these information if needed 7/ System sets the reminder
Exceptions	7/ If System cannot set the reminder 7.1/ System displays an error message 7.2/ Return to previous activity

Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	
Related Artifacts:	As a user, I want some method of helping me take consistent photos, so that when I show the doctor any progression such as the growth of a mole is evident.
Notes:	-Tests for use case 8- 1/ verify a reminder can be created
Open Issues:	

Use Case Number:	9
Use Case Name:	Retake Photo
Participating Actors:	User
Goal:	Retake an erroneous photo
Trigger:	User choose to retake a photo
Precondition:	The user has and able to modify the photo he or she want to retake
Postcondition:	The old unwanted photo is replaced by a new photo
Basic Flow	1/ User choose the option to retake that photo 2/ System invokes the function in use case 2 3/ New photo overwrites the old photo
Exceptions	3/ If the new photo cannot overwrite the old photo 3.1/ System displays an error message 3.2/ The user will then have to go and delete the previously taken photo

Qualities:	The process of retaking a photo is simple and quick.
Functionality:	
Constraints:	The new photo must reuses any appropriate information attached in the old photo.
Includes:	Take Photo
Extends:	
Related Artifacts:	# As a user, I should be able to retake photos I am taking, if I fail to take a photo # I want to correct it, so that I do not have erroneous photosCamera
Notes:	-Tests for use case 9- 1/ verify the user is able to use the retake photo option 2/ verify that the previous photo has been removed from the application 3/ verify the new photo is able to be stored by the application
Open Issues:	

Use Case Number:	10
Use Case Name:	View Skin Conditions
Participating Actors:	main User
Goal:	Show the list of skin conditions
Trigger:	The User chooses view list of skin conditions
Precondition:	
Postcondition:	On success, System displays the list of skin conditions or an empty list if there is no skin condition
Basic Flow	1/ System displays the list of skin conditions
Exceptions	1/ If System cannot display the list of skin conditions 1.1/ System displays an error message 1.2/ Return to previous activity

Qualities:	The list must be easy to read.
Functionality:	
Constraints:	
Includes:	View Multiple Photos
Extends:	
Related Artifacts:	
Notes:	-Tests for use case 10- 1/ verify all the skin conditions are displayed correctly 2/ verify the case where no skin conditions exist is handled correctly
Open Issues:	

Use Case Number:	11
Use Case Name:	View Groups
Participating Actors:	main User
Goal:	Show the list of groups
Trigger:	The User chooses view list of groups
Precondition:	
Postcondition:	On success, System displays the list of groups or an empty list if there is no group
Basic Flow	1/ System displays the list of groups

Exceptions	1/ If System cannot display the list of groups 1.1/ System displays an error message 1.2/ Return to previous activity
Qualities:	The list must be easy to read
Functionality:	
Constraints:	
Includes:	View Multiple Photos
Extends:	
Related Artifacts:	
Notes:	-Tests for use case 11- 1/ verify all the appropriate groups are displayed 2/ verify the case is handled where there are no groups
Open Issues:	

Use Case Number:	12
Use Case Name:	View Photos in a Skin Condition
Participating Actors:	main User
Goal:	Show the list of photos in a chosen skin condition
Trigger:	The User clicks on a skin condition in the list of skin conditions
Precondition:	
Postcondition:	On success, System displays the list of photos in the chosen skin condition
Basic Flow	1/ User chooses a skin condition in the list 2/ System displays a list of photos in the chosen skin condition 3/ User click on a photo to view it bigger

Exceptions	The list of photos must be loaded fast and correctly
Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	View Skin Conditions
Related Artifacts:	
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Notes:	Tests for use case 12- 1/ verify the case is handled when no skin condition is selected
	2/ check to see if all the photos with that skin condition are displayed

Open Issues:	

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Use Case Number:	13
Use Case Name:	View Photos in Group
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D 4: 4: A 4	. 11
Participating Actors:	main User
Goal:	Show the list of photos in a chosen group
Trigger:	The User clicks on a group in the list of groups
Precondition:	
Postcondition:	On success, System displays the list of photos in the chosen group
	I.

Basic Flow	1/ User chooses a group in the list of groups 2/ System displays a list of photos in the chosen group 3/ User click on a photo to view it bigger
Exceptions	
Qualities:	
Functionality:	
Constraints:	
Includes:	
Extends:	View Groups
Related Artifacts:	

Notes:	-Tests for use case 13- 1/ verify the case where no groups are selected 2/ verify that the correct photos are displayed corresponding to the group
Open Issues:	

Use Case Number:	14
Use Case Name:	Edit Photo Info
Participating Actors:	main user (patient)
Goal:	Edit information of a photo
Trigger:	User chooses the <i>edit</i> option in the menu
Trigger.	Osci chooses the <u>ear</u> option in the ment
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Precondition:	User know what information he/she want to edit

Postcondition:	On success, all relevant information of the chosen photo is updated
Basic Flow	1/ System has displayed info of the chosen photo at the end of use case <u>View photo</u> 2/ User chooses some piece of information of the entry to edit (time stamp is not editable) (optional) 3/ User confirms new information 4/ System saves and updates the entry
Exceptions	3/ If the new information is not valid 3.1/ System displays an error 3.2/ System returns to step 2
Qualities:	System assists user in editing by providing appropriate keys
Functionality:	
Constraints:	Use DD/MM/YYYY format for the date of a log entry; a short mnemonic name is no more than 100 characters
Includes:	
Extends:	View Photo

Related Artifacts:	
Notes:	-Tests for use case 14- 1/ verify the photo is saved properly after being edited 2/ verify the new fields are updated correctly 3/ handle the case where the new fields are null
Open Issues:	
Use Case Number:	15
Use Case Name:	Delete Photo
Participating Actors:	main user (patient)
Goal:	Delete an existing photo
Trigger:	User chooses the <u>Delete</u> option in the menu after choosing some photo

Precondition:	User knows what photo he/she want to delete
Postcondition:	On success, delete the photo
Basic Flow	1/ System has displayed the chosen photo at the end of <i>View photo</i> use case 2/ User chooses "delete" option to delete the photo 3/ System prompts the user to confirm action 4/ Confirmation of delete action
Exceptions	4/ if System cannot delete the photo 4.1/ System shows an error message 4.2/ Return to step 1
Qualities:	
Functionality:	
Constraints:	
Includes:	

Extends:	
Related Artifacts:	
Notes:	-Tests for use case 15- 1/ verify that the photo is removed, and all other data relating to that photo is also removed
Open Issues:	
Use Case Number:	16
Use Case Name:	Delete Group/Skin Condition
Participating Actors:	main user (patient)
Goal:	Delete some group or some skin condition

Trigger:	User chooses the <u>Delete</u> option in the menu after the System shows a list of groups or a list of skin conditions
Precondition:	
Postcondition:	On success, remove the chosen group or skin condition out of the information of all photos that belong to the group or skin condition
Basic Flow	1/ System has displayed the list of groups or the list of skin conditions at the end of <i>View groups</i> or <i>View skin conditions</i> 2/ User chooses <i>delete</i> option in the menu 3/ System prompts User to choose groups or skin conditions to delete 4/ User chooses groups or skin conditions to delete 5/ System prompts User to confirm deletion 6/ User confirms deletion 7/ System identifies all photos that belong to the deleted group or deleted skin condition and remove the group or skin condition out of the information of those photos; remove the group or skin condition
Exceptions	7/ if System cannot modify info of the photos 7.1/ System shows an error message 7.2/ Not delete the group or skin condition 7.3/ Return to previous activity
Qualities:	
Functionality:	

Constraints:		
Includes:		
Extends:		
Related Artifacts:		
Notes:	-Tests for use case 16- 1/ verify that the group/skin condition is deleted 2/ verify that all photos who were in the group or had the skin condition tags now no longer have the tags	
Open Issues:		
Use Case Number:	17	
Use Case Name:	View Multiple Photos	

Participating Actors:	main User				
Goal:	Show the list of photos				
Trigger:	The User chooses a criteria to view a list of photos				
Precondition:					
Postcondition:	On success, System displays the list of photos or an empty list if there is no photo meet the criteria				
Basic Flow	1/ System displays a list of photos meet the criteria 2/ User click on a photo to view it bigger				
Exceptions					
Qualities:					
Functionality:					

Constraints:	
Includes:	
Extends:	
Related Artifacts:	
Notes:	-Tests for use case 17- 1/ verify that the list of photos is displayed correctly 2/ verify that the list of photos for 0 photos doesn't create errors
Open Issues:	