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| **Use Case Number:** | 18 |
| **Use Case Name:** | ***Password encryption*** |
| **Participating Actors:** | Main user |
| **Goal:** | Allow returned user to log in with his/her password |
| **Trigger:** | This user clicks the app from the android app menu list |
| **Precondition:** | None |
| **Postcondition:** | Allow user to log in if the password is correct, reject otherwise |
| **Basic Flow** | 1/ User click application icon  2/ System prompts user for the password  3/ User enters password  4/ System checks the password  5/ System starts the application if password is correct. Otherwise, display a wrong password message. Return to step 2 |
| **Exceptions** | 2.1/ application fails to launch  Display error message |
| **Qualities:** | System responds within 1s |
| **Functionality:** |  |
| **Constraints:** |  |
| **Includes:** |  |
| **Extends:** |  |
| **Related Artifacts:** | As a user, I am worried that if my phone gets stolen people will see my photos. I want my photos secured via a password |
| **Notes:** | Implement encryption of the folder containing photos |
| **Object Oriented Analysis** |  |

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| **Use Case Number:** | 19 |
| **Use Case Name:** | ***Reminder*** |
| **Participating Actors:** | Main user |
| **Goal:** | Remind the user of taking consistent photos to keep track of his/her skin conditions. |
| **Trigger:** | This user chooses “reminder” option on the main screen of the application |
| **Precondition:** | None |
| **Postcondition:** | Allow user to create alarms that go off at set-up times. |
| **Basic Flow** | 1/ User chooses “reminder” option  2/ System shows a list of alarms created  3/ User chooses to create a new alarm or edit some existing one  4/ System creates a new alarm or modifies the existing one |
| **Exceptions** | 2/ Fails to load the list of alarms  2.1/ Display an error message  2.2/ Return to the main screen |
| **Qualities:** |  |
| **Functionality:** | The alarm goes of at a specific point of time that is set by the user. If the time set up already passes the current time, the alarm will go off immediately. One-time or repeating alarm types are supported. |
| **Constraints:** |  |
| **Includes:** |  |
| **Extends:** |  |
| **Related Artifacts:** | As a user, I want notifications about when I should take photos again. I’m forgetful and being told every so often to take new photos would be helpful. Certain photos I don’t have to retake again. |
| **Notes:** | The alarm is not bound to any particular photos. The user needs to annotate the alarm to know which skin condition he/she would like to observe by taking consistent photos.  The alarm name is stored in a database |
| **Open Issues:** |  |

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| **Use Case Number:** | 20 |
| **Use Case Name:** | ***Emailing photos*** |
| **Participating Actors:** | Main user |
| **Goal:** | Email a set of photos to the patient’s physician |
| **Trigger:** | This user chooses “email photos” option to email a set of chosen photos to his/her physician |
| **Precondition:** | There is a list of photos being displayed on the screen |
| **Postcondition:** | Successfully email the physician a set of chosen photos |
| **Basic Flow** | 1/ User chooses “email photos” option  2/ System prompts user to choose multiple photos within the list  3/ User choose a list of photos  4/ User confirms his/her chosen photo set  5/ System displays pop-up window to ask for the user’s confirmation of sending photos via email  6/ Upon confirmation of the user, system prompts the user to enter the physician’s email  7/ System sends the chosen set of photos to the provided email  8/ System notifies the user of successful or failed email |
| **Exceptions** |  |
| **Qualities:** |  |
| **Functionality:** |  |
| **Constraints:** |  |
| **Includes:** |  |
| **Extends:** |  |
| **Related Artifacts:** | As a user, I want to email a set of photos to my physician |
| **Notes:** | Checking the network connection before sending photos via email to provide descriptive feedback |
| **Open Issues:** |  |

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| **Use Case Number:** | 21 |
| **Use Case Name:** | ***Annotate images*** |
| **Participating Actors:** | Main user |
| **Goal:** | Annotate images to provide more relevant information about the images |
| **Trigger:** | This user chooses “add annotation” option when the newly created photo is displayed on the screen right after it is taken |
| **Precondition:** | User takes a photo |
| **Postcondition:** | Successfully annotate the photo |
| **Basic Flow** | 1/ User chooses “add annotation” option  2/ System prompts user to input some information  3/ User inputs an annotation and confirms his/her input  4/ System attaches the annotation to the photo |
| **Exceptions** |  |
| **Qualities:** |  |
| **Functionality:** |  |
| **Constraints:** |  |
| **Includes:** |  |
| **Extends:** |  |
| **Related Artifacts:** | As a user I would like to annotate images with annotations to describe the scenario that I made this photo |
| **Notes:** | The annotation is stored in the database. It will be loaded when the user chooses “show annotation” option when viewing the photo |
| **Open Issues:** |  |

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| **Use Case Number:** | 22 |
| **Use Case Name:** | ***Tag photos*** |
| **Participating Actors:** | Main user |
| **Goal:** | Tag the images to provide queries images by tag |
| **Trigger:** | The user chooses some existing tag to tag the photo to or create a new tag for the photo |
| **Precondition:** | User has just taken a photo or some tag is chosen |
| **Postcondition:** | Successfully tag the photo |
| **Basic Flow** | When a photo is just taken  1/ System loads the list of tags  2/ User chooses some existing tags to tag the photo  3/ User confirms his/her chosen tags  4/ System tags photo with chosen tags  The target tag can be chosen from the list of existing tags  1/ User chooses “connect photos” option to tag a chosen photo to the current selected tag  2/ System loads a list of photos that are currently not attached to the tag  3/ User chooses some photo(s) to tag  4/ System tags the chosen photos |
| **Exceptions** |  |
| **Qualities:** |  |
| **Functionality:** |  |
| **Constraints:** |  |
| **Includes:** |  |
| **Extends:** |  |
| **Related Artifacts:** | As a user I would like to tag the images so I can query the image by tag |
| **Notes:** |  |
| **Open Issues:** |  |