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<b>Use Case 1:</b>	Login
<b>Equivalence Class 1:</b>	Login as Admin
<b>Test Case</b>	<b>Expected Result</b>
UITextField under "Login" under the UITextField	"admin" opens
<b>Equivalence Class 2:</b>	Login as user
<b>Test Case</b>	<b>Expected Result</b>
("testuser") into the under the UITextField	"testuser" opens with user's name as title
<b>Equivalence Class 3:</b>	User not found
<b>Test Case</b>	<b>Expected Result</b>
("notuser") into the under the UITextField	"notuser" again" appears under Login JButton
<b>Use Case 2:</b>	Create a user
<b>Equivalence Class 1:</b>	Successfully creates a user
<b>Test Case</b>	<b>Expected Result</b>
("testuser") into the JButton under the	UITextField next to "User ID" and JList and clears the error field
<b>Equivalence Class 2:</b>	User already exists
<b>Test Case</b>	<b>Expected Result</b>
("testuser") into the JButton under the	UITextField next to "User ID" and into the JList since it already exists
<b>Equivalence Class 3:</b>	Empty Userfield
<b>Test Case</b>	<b>Expected Result</b>
UITextField next to "User JButton under the	"User ID" and "" into the UITextField JList since this is not a valid entry
<b>Use Case 3:</b>	Delete a user
<b>Equivalence Class 1:</b>	Successfully deletes a user
<b>Test Case</b>	<b>Expected Result</b>
("testuser") in the JList JButton under the	Highlights "testuser" in the JList and clears the error field
<b>Equivalence Class 2:</b>	selected
<b>Test Case</b>	<b>Expected Result</b>
in the JList JButton under the	Nothing is highlighted in the JList error message "Please select a user"
<b>Use Case 4:</b>	Logout
<b>Equivalence Class 1:</b>	Logout
<b>Test Case</b>	<b>Expected Result</b>
JButton	opens
<b>Use Case 5:</b>	Create Album
<b>Equivalence Class 1:</b>	Successfully create an album
<b>Test Case</b>	<b>Expected Result</b>

Enter "testalbum" into the JTextField above the Search Photos/Logout Button Click the "Create Album" JButton	Displays "testalbum" into the JTextField above the Search Photos/Logout Button Displays "testalbum" in the JList and clears the error panel. Album already exists
<b>Equivalence Class 2:</b> <b>Test Case</b> Enter "testalbum" into the JTextField above the Search Photos/Logout Button Click the "Create Album" JButton	<b>Expected Result</b> Displays "testalbum" into the JTextField above the Search Photos/Logout Button Displays error message "Album already exists."
<b>Equivalence Class 3:</b> <b>Test Case</b> Enter "" into the JTextField above the Search Photos/Logout Button Click the "Create Album" JButton	<b>Expected Result</b> No input exists Displays "" into the JTextField above the Search Photos/Logout Button Displays error message "Please enter an album name."
<b>Use Case 6:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click on valid album ("testalbum") in the JList Click the "Delete User" JButton under the JTextField	Delete an album Successfully deletes a user <b>Expected Result</b> Highlights "testalbum" in the JList Deletes album "testalbum" in the JList and clears the error field
<b>Equivalence Class 2:</b> <b>Test Case</b> Do not click on any albums in the JList Click the "Delete User" JButton under the JTextField	Attempt to delete when album is not <b>Expected Result</b> Nothing is highlighted in the JList Does not delete any albums and displays error message "Please enter an album name."
<b>Use Case 7:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click on valid album ("testalbum") in the JList and type "renamealbum" in the textfield above the "Search Photos"/"Logout" button Click the "Rename Album" Button	Rename an album Successfully renames a user <b>Expected Result</b> Highlights "testalbum" in the JList and displays "renamealbum" in the textfield above the "Search Photos"/"Logout" button Renames album "testalbum" to "renamealbum" in the JList and
<b>Equivalence Class 2:</b> <b>Test Case</b> Do not click on any albums in the JList Click the "Rename Album" JButton under the JTextField	Attempt to delete when album is not <b>Expected Result</b> Nothing is highlighted in the JList Does not rename any albums and displays error message "Please enter an album name."

<b>Use Case 8:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click on valid album ("testalbum") in the JList Click the "Open Album" Button <b>Equivalence Class 2:</b> <b>Test Case</b> Do not click on any albums in the JList Click the "Open Album" JButton under the JTextField	Open Album Successfully opens an album <b>Expected Result</b>  Highlights "testalbum" in the JList Opens photo page for "testalbum", clears the error field and closes the Attempt to open an album when <b>Expected Result</b>  Nothing is highlighted in the JList Does not open any albums and displays error message "Please select an album."
<b>Use Case 9:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click on "Search Photos" in the JList	Search Photos Successfully opens the Search <b>Expected Result</b> Opens Search Photos window for the current user, clears the error field
<b>Use Case 10:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click on the "Logout" JButton	Logout (Album Page) Logout <b>Expected Result</b> Album Page window closes, Login window opens
<b>Use Case 11:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Enter valid picture ("../data/Penguins.jpg") into the JTextField in the Album window Click the "Add Photo" button <b>Equivalence Class 2:</b> <b>Test Case</b> Enter already existing picture ("../data/Penguins.jpg") into the JTextField in the Album window Click the "Add Photo" button <b>Equivalence Class 3:</b> <b>Test Case</b> Enter invalid file ("../data/hello.jpg") into the JTextField in the Album window Click the "Add Photo" button	Add Photo Successfully added photo <b>Expected Result</b>  JTextField now says "../data/Penguins.jpg" JTextfield is cleared, Penguins.jpg appears in JList of photos with a Photo already exists in album <b>Expected Result</b>  JTextField now says "../data/Penguins.jpg" JTextArea under input field now says "Photo already exists in album." Photo does not exist <b>Expected Result</b>  JTextField now says "../data/hello.jpg" JTextArea under input field now says "Please enter a valid photo."
<b>Use Case 12:</b> <b>Equivalence Class 1:</b> <b>Test Case</b>	Remove Photo Successfully removed photo <b>Expected Result</b>

Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Click the "Remove Photo" button	Jlist entry that was previously highlighted is no longer in the JList
<b>Equivalence Class 2:</b>	No photo is selected
<b>Test Case</b>	<b>Expected Result</b>
Click the "Remove Photo" button while no JList entry is selected	JTextArea under input field now says "Please select a photo."
<b>Use Case 13:</b>	Set caption
<b>Equivalence Class 1:</b>	Successfully recaptioned photo
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album or Search window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Enter a caption for the photo ("Three of them") in JTextField	JTextField now says "Three of them"
Click the "Set Caption" button	JList entry now shows Penguins.jpg - Three of them and detail area on the
<b>Equivalence Class 2:</b>	No photo is selected
<b>Test Case</b>	<b>Expected Result</b>
Click the "Set Caption" button while no JList entry is selected	JTextArea under input field now says "Please select a photo."
<b>Use Case 14:</b>	Move to Album
<b>Equivalence Class 1:</b>	Successfully moved photo
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Enter a new album ("testalbum2") in JTextField	JTextField now says "testalbum2"
Click the "Move to Album" button	Jlist entry that was previously highlighted is no longer in the JList,
<b>Equivalence Class 2:</b>	No photo is selected
<b>Test Case</b>	<b>Expected Result</b>
Click the "Move to Album" button while no JList entry is selected	JTextArea under input field now says "Please select a photo."
<b>Equivalence Class 3:</b>	Photo already exists in album
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Enter a new album ("testalbum2") in JTextField	JTextField now says "testalbum2"
Click the "Move to Album" button	Displays error message "Photo already exists in album."
<b>Equivalence Class 4:</b>	Album does not exist
<b>Test Case</b>	<b>Expected Result</b>

Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Enter an invalid album ("noalbum") in JTextField	JTextField now says "noalbum"
Click the "Move to Album" button	Displays error message "Please enter valid album."
<b>Equivalence Class 5:</b>	No input
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Click the "Move to Album" button	Displays error message "New album required."
<b>Use Case 15:</b>	Display Photo
<b>Equivalence Class 1:</b>	Successfully removed photo
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album or Search window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Click the "Display Photo" button	Photo is displayed
<b>Equivalence Class 2:</b>	No photo is selected
<b>Test Case</b>	<b>Expected Result</b>
Click the "Display Photo" button while no JList entry is selected	JTextArea under input field now says "Please select a photo."
<b>Use Case 16:</b>	Previous Photo
<b>Equivalence Class 1:</b>	Previous photo displayed
<b>Test Case</b>	<b>Expected Result</b>
Click the " < " button while there is another photo in the JList of photos before the displayed photo in the Album or Search window	Previous photo is displayed
<b>Equivalence Class 2:</b>	No photo to display
<b>Test Case</b>	<b>Expected Result</b>
Click the " < " button while there is not another photo in the JList of photos before the displayed photo in the Album or Search window	No change
Click the " < " button while there is no photo selected in the Album or Search window	No change
<b>Use Case 17:</b>	Next Photo
<b>Equivalence Class 1:</b>	Next photo displayed
<b>Test Case</b>	<b>Expected Result</b>

Click the " > " button while there is another photo in the JList of photos before the displayed photo in the Album or Search window	Next photo is displayed
<b>Equivalence Class 2:</b>	No photo to display
<b>Test Case</b>	<b>Expected Result</b>
Click the " > " button while there is not another photo in the JList of photos before the displayed photo	No change
Click the " > " button while there is no photo selected in the Album or Search window	No change
<b>Use Case 18:</b>	Add Tag
<b>Equivalence Class 1:</b>	Successfully added tag
<b>Test Case</b>	<b>Expected Result</b>
Enter valid tag ("color:black") into the JTextField in the Album or Search window	JTextField now says "color:black" JTextField is cleared, Penguins.jpg
Click the "Add Tag" button	appears in JList of photos with a Tag already exists on photo
<b>Equivalence Class 2:</b>	Tag already exists on photo
<b>Test Case</b>	<b>Expected Result</b>
Enter already existing tag ("color:black") into the JTextField in the Album or Search window	JTextField now says "color:black"
Click the "Add Tag" button	No change
<b>Equivalence Class 3:</b>	No input
<b>Test Case</b>	<b>Expected Result</b>
Click the "Add Tag" button	JTextField now says "Please enter valid type:value pair."
<b>Equivalence Class 4:</b>	Invalid tag format
<b>Test Case</b>	<b>Expected Result</b>
Enter invalid tag ("color black") into the JTextField in the Album or Search window	JTextField now says "color black" Displays error message "Please enter valid type:value pair."
Click the "Add Tag" button	
<b>Use Case 19:</b>	Delete Tag
<b>Equivalence Class 1:</b>	Successfully deleted tag
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window

Enter an existing tag:value ("color:black") in JTextField	JTextField now says "color:black"
Click the "Delete Tag" button	Tag removed; detail panel in top right reflects tag removal
<b>Equivalence Class 2:</b>	No photo is selected
<b>Test Case</b>	<b>Expected Result</b>
Click the "Delete Tag" button while no JList entry is selected	JTextArea under input field now says "Please select a photo."
<b>Equivalence Class 3:</b>	Tag does not exist
<b>Test Case</b>	<b>Expected Result</b>
Select a file in the JList of photos in the Album window (Penguins.jpg)	JList entry is highlighted and its details shown in the details area on the top right of the window
Enter a nonexistent tag ("color:carpet") in JTextField	JTextField now says "color:floor"
Click the "Delete Tag" button	No change
<b>Equivalence Class 4:</b>	Invalid tag format
<b>Test Case</b>	<b>Expected Result</b>
Enter invalid tag ("color black") into the JTextField in the Album or Search window	JTextField now says "color black"
Click the "DeleteTag" button	Displays error message "Please enter valid type:value pair."
<b>Use Case 20:</b>	Search By Date Range
<b>Equivalence Class 1:</b>	Successfully Search for a date
<b>Test Case</b>	<b>Expected Result</b>
Enter "02/05/2014-20:24:42 09/18/2014-03:31:23" into the JTextField below the JList	Displays "02/05/2014-20:24:42 09/18/2014-03:31:23" in the JTextField below the JList
Click the "Search By Date Range" JButton	Displays valid photos "test.jpg" and "test1.png" and clears the error text
<b>Equivalence Class 2:</b>	No dates entered
<b>Test Case</b>	<b>Expected Result</b>
Do not enter anything in to the JTextField below the JList	Displays "" in the JTextField below the JList
Click the "Search By Date Range" JButton	displays error message "Invalid date entry: Please enter only two dates"
<b>Equivalence Class 3:</b>	Date incorrectly entered
<b>Test Case</b>	<b>Expected Result</b>
Enter invalid date ("12/3/14 12/3/15") into the JTextField under "Login" on the Login window	Displays "12/3/14 12/3/15 in the JTextField below the JList
Click the "Search By Date Range" JButton	displays error message "Invalid date: dates must be formatted MM/dd/yyyy-
<b>Use Case 21:</b>	Search By TypeValue

<b>Equivalence Class 1:</b> <b>Test Case</b> Enter valid("test:tag") into the JTextField below the JList Click the "Search By Type Value" JButton	Successfully Search for a tag <b>Expected Result</b> Displays "test:tag" in the JTextField below the JList Displays valid photos "test.jpg" and clears the error text field
<b>Equivalence Class 2:</b> <b>Test Case</b> Do not enter anything in to the JTextField below the JList Click the "Search By Type Value" JButton	No tags entered <b>Expected Result</b> Displays "" in the JTextField below the JList displays error message "No photos were found that matched the
<b>Equivalence Class 3:</b> <b>Test Case</b> Enter invalid tag ("tag:type") into the JTextField under "Login" on the Login window Click the "Search By Date Range" JButton	Tags don't exist <b>Expected Result</b> Displays "tag:type" in the JTextField below the JList displays error message "No photos were found that matched the
<b>Use Case 22:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Enter valid("test:tag") into the JTextField below the JList Click the "Create Album From Photos" JButton	Create Album from Photos Successfully create an album from <b>Expected Result</b> Displays "test:tag" in the JTextField below the JList Creates a new album based on the photos displayed and
<b>Use Case 23:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Enter valid("test:tag") into the JTextField below the JList Click the valid photo "test.jpg" Click the "Display Photo" JButton	Display Photo Successfully create an album from <b>Expected Result</b> Displays "test:tag" in the JTextField below the JList highlights the valid photo "test.jpg" Displays the phot image below the window (attached)
<b>Use Case 24:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click the "Cancel" JButton on the Album or Search window	Cancel Button Successfully closes <b>Expected Result</b> Window closes, User window opens
<b>Use Case 25:</b> <b>Equivalence Class 1:</b> <b>Test Case</b> Click the "x" button at the top right of window	X Button Successfully saves and terminates <b>Expected Result</b> Saves all data and stores it into memory and closes the program















