Below are the tests included in the test plan for each manual test case required to be performed to verify the correct behaviour of all functionality within the "Ye Olde Times" Android application.

Note that the language used in describing the test plan has been simplified such that testers do not need to understand the intricacies of the app's underlying code base in order to perform the required tests. The only additional terms used that need to be clarified before performing the tests are "image view" and "halftone". An "image view" refers to a square section of the screen which displays a grey (if no image is within the view) or an image (if an image is within the view). "Halftone" refers to a style of image whereby for small square sections of the image (of the same size) a circle, diamond or square is drawn of a size that corresponds to the average grey colour of that series of pixels. A halftoned image should be in black and white, where the circles, diamonds or squares are black and the background is white.

Test 1: Launching the Select Image From Gallery Screen by clicking the Gallery button on the home screen

Brief

Verify that on click of the Gallery button on the home screen the "Select Image From Gallery" Screen is loaded with an empty image view, an upload image button and a next button. There should also be a title for the image view with the word "Preview" displayed above the square image area and a title for the bottom half of the screen that says "Upload Image".

Setup

1. Ensure that the Ye Olde Times application is fully installed on the device. Launch the Ye Olde Times application such that the home screen is displayed.

Test Procedure

1. Start up the Ye Olde Times application from the device by tapping on its app icon.
2. On the home screen, select the Gallery button (button with title "Gallery").
3. Verify that the screen displays in the manner described below (in Expected Results)

Expected Results

Upon selecting the Gallery button on the home screen (entitled "Gallery"), a new screen will open. The screen will have an image view (centre aligned on the screen), an "Upload Image" button (centre aligned and displayed beneath the image view with the text "Upload Image") and a "Next" button (containing the text "Next", displayed in a bottom bar at the bottom of the screen, right aligned). There should be a line separator beneath the image view, separating the image view from the "Upload Image" section. There should be a title for the image view displayed in the top left hand corner with the text "Preview" and a title for the "Upload Image" button at the top left of the button with the text "Upload from Gallery".

Test 2: Launching the Select Image From Camera Screen by clicking the Gallery button on the home screen

Brief

When the camera button is clicked, the "Select Image From Camera" screen should be displayed with a grey square image area, an "Upload Image" button and a "Next" button.

Setup

1. Ensure that the Ye Olde Times application is fully installed on the device.
2. Launch the Ye Olde Times application such that the home screen is displayed.

Test Procedure

1. Start up the Ye Olde Times application from the device.
2. On the home screen, select the Camera button (button with title "Camera").
3. Verify that the screen displays in the manner described below.

Expected Results

Upon selecting the Camera button (entitled "Camera") on the home screen, a new screen will open. The screen will contain an image view (centre aligned on the screen), a "Capture Image" button (centre aligned and displayed directly beneath the image view with the text "Capture Image") and a "Next" button (containing the text "Next", displayed in a bottom bar at the bottom of the screen, right aligned). There should be a line separator beneath the image view, separating the image view from the "Capture Image" section. There should be a title for the image view displayed in the top left hand corner with the text "Preview" and a title for the "Capture Image" button at the top left of the button with the text "Upload from Camera".

Test 3: Loading up the native Gallery application from the Select Image From Gallery screen

Brief

Ensure that the native gallery can be opened from within the Ye Olde Times application such that the user can locate an image that they would like to upload into the app.

Setup:

1. Obtain some images either via the web or using the camera outside of the Ye Olde Times application.
2. Ensure sure that these are saved into the native gallery app and can thus be viewed from within the native gallery app.

Test Procedure

1. Upon launching the application, select the "Gallery" button on the home screen to navigate to the "Select Image From Gallery" screen.
2. Once the screen has loaded, select the "Upload Image" button.
3. Then, verify that the native gallery application launches and that it is possible to browse through the images in the gallery.

Expected Results

Upon clicking the "Upload Image" button, the native gallery app opens up on top of the application (the native gallery app occupies the entire screen). It should be possible to scroll within the gallery and click on tabs on the left hand side of the gallery to view different albums (if visible).

Test 4: Starting up the Camera from the Select Image From Camera screen

Brief

Ensure that the native camera app is able to be started up and that it is possible to take a photo using the native camera app from within the Ye Olde Times application.

Setup

1. The device should have a functioning built-in camera (however, it is assumed that there will be a camera attached to the device as the app should be tested on a Nexus 7 as this is the target platform).
2. Ensure that the native camera application on the Android device is working. This can be verified by downloading the official Camera Nexus 7 app from: https://play.google.com/store/apps/details?id=com.netco.camera or by opening up the Google Play store on your device and searching for "Camera Nexus 7" and downloading the app that appears as the first result.
3. Once the app has downloaded, browse to it on your device and launch it.
4. Capture an image using the circle button that displays on bottom of the screen.
5. Then, close the app by pressing the home key.
6. Navigate to the native gallery app and open it up.
7. Verify that the image that you captured with the camera is stored in the gallery.
8. Launch the Ye Olde Times application such that the home screen is displayed.

Test Procedure

1. On the home screen, select the Camera button (button with title "Camera").
2. Click the "Capture Image" button
3. Click the circle button at the bottom centre of the screen to take a photograph.

Expected Results

Upon selecting the "Capture Image" button, the native camera app will be launched. Then, once the capture button is clicked within the native camera app, a photograph is taken.

Test 5: Ensuring that an image can be loaded into the image view on the Select Image From Gallery screen

Brief

Verify that an image chosen from within the native gallery app (when launched on click of the "Upload Image" button on the Select Image From Gallery screen) displays within the image view on the Select Image From Gallery screen.

Setup

1. Obtain some images either via the web or using the camera outside of the Ye Olde Times application.

2. Ensure sure that these are saved into the native gallery app and can thus be viewed from within the native gallery app.

Test Procedure

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.

Expected Results

The image corresponding to the thumbnail selected from within the native gallery app when launched upon selecting the "Upload Image" button is displayed within the image view.

Test 6: Ensuring that an image can be loaded into the image view on the Select Image From Camera screen

Brief

Verify that an image captured using the device's camera (launched from within the Ye Olde Times app) is loaded into and can be viewed within an image view on click of the "done" button in the camera app.

Setup

1. Ensure that the native camera application on the Android device is working. This can be verified by downloading the official Camera Nexus 7 app from: https://play.google.com/store/apps/details?id=com.netco.camera or by opening up the Google Play store on your device and searching for "Camera Nexus 7" and downloading the app that appears as the first result.
2. Once the app has downloaded, browse to it on your device and launch it.
3. Capture an image using the circle button that displays on the bottom of the screen.
4. Then, close the app by pressing the home key.
5. Navigate to the native gallery app and open it up.
6. Verify that the image that you captured with the camera is stored in the gallery.

Test Procedure

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.

6. Then verify that the image view is populated with the image that was taken using the native camera app.

Expected Results

The camera app launches on click of the "Capture Image" button. The user is able to take a photo in the camera app by selecting the circle button in the centre of the bottom of the screen. When this is done, the image display freezes, indicating that a photograph has been taken. Clicking the tick button closes the camera. The user is returned to the Ye Olde Times app, displaying the screen that it launched the camera app from (the Select Image From Camera screen). The image view on this screen now displays the photograph taken with the camera app.

Test 7: Ensuring that the Create Newspaper screen is able to be navigated to from the Select Image From Gallery screen and Select Image From Camera screen and displays as expected

Brief

Verify that the Create Newspaper screen opens after clicking the next button in the Select Image From Gallery screen or the Select Image from Camera screen. Ensure that the screen displays all components as expected, laid out in the correct manner.

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.

Test Procedure

1. After performing the steps necessary for setting up the test (as mentioned in the aforementioned "Setup" section) select the "Next" button which is located at the bottom right of the page.
2. Verify that the screen is updated to the "Create Newspaper screen" (at this point, simply verify that the screen displays different content in its bottom half).
3. Examine the screen further: this screen should have the same top half as the previous screen (an image view with an image loaded in from the previous screen (which should now be halftoned using circles as the halftone shape) and a label saying "Preview" in the top left hand corner).
4. Verify that the bottom half of the screen contains 3 radio buttons, laid out in a horizontal fashion labelled from left to right as "Dot", "Square", "Diamond". The title for this section of buttons should be displayed at the top left just above the radio buttons with the title "Halftone Type".
5. Verify that below this this, a divider exists, followed by the title "Input Caption". This section should contain a text field that spans the width of the device. The hint text for this text field should be "Please input a caption for your image".
6. Verify that there are two buttons below this, horizontally aligned. These buttons should be labelled "Update Caption" and "Remove caption". The bottom right button should be in a button bar and be labelled "Next".
7. Then, verify that the image view now contains a halftoned version of the image that was obtained from the camera. Thus, it should display different sized circles drawn for each section of pixels in the image with a 5 pixel width and height. The image should be in black and white (the circles / dots drawn on the image should be black and the background should be white).

Expected Results

Upon clicking the next button on either the "Select Image From Gallery" or the "Select Image From Camera" screen, the "Create Newspaper screen" should be launched, displaying the same top half of the screen as the previous screen (except with the image in the image view now halftoned using circles/dots), 3 radio buttons, laid out in a horizontal fashion labelled from left to right as "Dot", "Square", "Diamond" and a title for these radio buttons, "Halftone Type". Below the radio buttons there should be a divider and then a text field that spans the width of the device. The hint text for this text field should be "Please input a caption for your image". There should be two buttons below this, horizontally aligned. These buttons should be labelled "Update Caption" and "Remove caption". The bottom right button should be in a button bar and be labelled "Next".

The image view should contain the same image from the previous screen however it should be in black and white (drawn with black dots on a white background where each dot is of varying size representing the average grey colour of pixels in that area that the dot inhabits).

Test 8: Halftone an image using the diamond shape – drawing diamonds for average grey colour of a square section of pixels

Brief

Verify that an image displayed in an image view within the application can be converted into a halftone image using the "diamond" shape to perform the half toning effect.

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2 Select the "Upload Image" button to launch the native gallery app.
2. Select an image within the gallery app by tapping on the thumbnail of an image.
3. The image will enlarge. Tap on the enlarged image.
4. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
5. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Test Procedure

1. After performing the steps necessary for setting up the test (as mentioned in the aforementioned "Setup" section), examine the image view on the "Create Newspaper" screen.
2. Verify that the image view now contains a halftoned version of the image from the previous screen (drawn using circles/ dots).
3. Select the "Diamond" halftone type radio button.
4. The image should display different sized diamonds drawn for each section of pixels in the image with a 5 pixel width and height. The image should be in black and white (the diamonds drawn on the image should be black and the background should be white).

Expected Results

The image view should contain the same image from the previous screen however it should be in black and white (drawn with black diamonds on a white background where each diamond is of varying size representing the intensity of pixels in that area that the diamond is inhabiting).

Test 9: Halftone an image using the square shape – drawing squares for average grey colour of a square section of pixels

Brief

Verify that an image displayed in an image view within the application can be converted into a halftone image using the "square" shape to perform the half toning effect.

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Test Procedure

1. After performing the steps necessary for setting up the test (as mentioned in the aforementioned "Setup" section), examine the image view on the "Create Newspaper" screen.
2. Verify that the image view now contains a halftoned version of the image that was obtained from the previous screen(drawn using circles/ dots).
3. Select the "Square" halftone type radio button.
4. The image should display different sized squares drawn for each section of pixels in the image with a 5 pixel width and height. The image should be in black and white (the squares drawn on the image should be black and the background should be white).

Expected Results

The image view should contain the same image from the previous screen however it should be in black and white (drawn with black squares on a white background where each square is of varying size representing the intensity of pixels in that area that the square is inhabiting).

Test 10: Halftone an image using standard halftone – drawing dots for average grey colour of a square section of pixels

Brief

Verify that an image displayed in an image view within the application can be converted into a halftone image using the "circle" shape to perform the half toning effect.

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Test Procedure

1. On the Create Newspaper screen, click the radio button labelled "diamond".
2. Verify that the image in the image view now appears to be drawn using "diamonds" in order to create the halftoning effect. The image should be in black and white with the diamonds drawn in black and the background in white. Thus, it should display different sized diamonds drawn for each section of pixels in the image with a 5 pixel width and height.
3. Now click the radio button labelled "circle" and verify that the image in the image view now displays halftoned using "circles" in order to create the halftoning effect (the image should appear to be drawn with dots). The image should now be in black and white with the circle drawn in black and the background in white. Thus, it should display different sized circles drawn for each section of pixels in the image with a 5 pixel width and height.

Expected Results

Upon clicking the diamond radio button, the image should update to appear as though it has been halftoned using black diamonds. Upon clicking the circle radio button after this, the image should appear as though it has been halftoned using black circles. The image view should contain the same image from the "Select Image From Gallery" screen however it should be in black and white (drawn with black dots on a white background where each dot is of varying size representing the intensity of pixels in that area that the dot is inhabiting).

Test 11: Adding a caption to a halftoned image

Brief

Ensure that, after halftoning an image within the app, the user can add a caption under the image (note that, as the app was designed for the purpose of halftoning images, adding captions to non-halftoned images is not supported as the user is forced to halftone their image after they upload it).

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image of size 500x500 pixels or greater within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Test Procedure

1. Input a small amount of text (for example, the word "Test") into the text field which prompts for the input of a caption on this screen.
2. Select the "Update Caption" button.
3. Verify that the image now contains the caption input at the bottom of the image, written in black text, displayed on a white background.

Expected Results

After inputting some text into the text field for the caption and then selecting the "Update Caption" button, the image is updated with some text beneath it, written in black on a white background. The text field should still contain the same caption that was last input.

Test 12: Removing a caption from a halftoned image

Brief

Ensure that a caption stored below an image can be removed after it has been added to the image. When the caption is removed, the image in the image view should revert to the original halftoned image.

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image of size 500x500 pixels or greater within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Then, in either case of performing the test uploading an image from the gallery or capturing an image from the camera, perform the following:

1. Verify that the screen is updated to the Create Newspaper screen and that the image displayed on this screen is halftoned using "circles".
2. Input a small amount of text (for example, the word "Test") into the text field which prompts for the input of a caption.
3. Select the "Update Caption" button.
4. Verify that the image now contains the caption input at the bottom of the image, written in black text, displayed on a white background.

Test Procedure

1. Select the "Remove Caption" button.
2. Verify that the caption that was previously displayed below the image in the image view has now been removed.
3. Verify that the text field where the caption was input is now empty.

Expected Results

The caption will be removed from the image and the image view is updated with the original halftoned image without the caption beneath it. The text field where the caption was input should now be empty.

Test 14: Verify that a dialog appears upon clicking the "Next" button on the Create Newspaper screen after modifying the image displayed

Brief

Verify that, once an image is modified within the Create Newspaper screen, the user is provided with a dialog asking them to save before they move to the Share screen.

Setup

Setup if performing the test uploading an image from the gallery is as follows:

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Test Procedure

1. On the Create Newspaper screen, select the "Next" button.
2. Verify that a dialog pops up with the title "Your image must be saved before progressing to the Share screen" and the message "Is it okay to save the image to the gallery?"

Expected Results

Upon clicking the "Next" button, a dialog pops up with the title "Your image must be saved before progressing to the Share screen" and the message "Is it okay to save the image to the gallery?"

Test 15: Sharing via social media

Brief

Verify that it is possible to share an image via social media such as Twitter and Facebook and via email.

Setup

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Then in either case of uploading the image from the gallery or capturing an image from the camera, do the following:

1. Verify that the Create Newspaper screen is displaying.
2. Select the "Next" button.
3. Select "Ok" in the dialog that appears.
4. Verify that the screen is updated to the Share screen and that the image displayed on this screen is the same as it was on the previous screen.

Test Procedure

1. Select the "Click To Share" button.
2. Select a social networking service from the popup that appears (Facebook or Twitter) or mailing service (Gmail).
3. Verify that a screen pops up on top of the Ye Olde Times app, with either a Facebook comment containing the image, a Twitter comment containing the image or Gmail email containing the image (if you selected Facebook in step 2, then the Facebook comment popup should appear, if you selected Twitter in step 2, then the Twitter comment popup should appear and finally if you selected Gmail in step 2, then the Gmail email popup should appear).

4. Click "Post" if in the Facebook popup, click "Post" if in the Twitter popup and click "Send" (after inputting a recipient and a subject for the email containing the image) if in the Gmail popup.

Expected Results

Upon clicking the "Click To Share" button, a popup appears containing Facebook, Twitter and Gmail. After selecting one of these services to share to, if Facebook was selected, then the Facebook comment popup should appear, if Twitter was selected, then the Twitter comment popup should appear and finally Gmail was selected, then the Gmail email popup should appear. After clicking "Post" if Facebook or Twitter was selected, the image is uploaded to Facebook or Twitter (uploaded to Facebook if Facebook was the sharing service selected and uploaded to Twitter if Twitter was the sharing service selected). After clicking "Send" if Gmail was selected, the recipient of the email receives the image as a message in their inbox.

Test 16: Returning to the home screen after the share screen

Brief

Verify that the user is able to return to the home page after clicking the "Finish" button on the Share screen.

Setup

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.
2. Select the "Upload Image" button to launch the native gallery app.
3. Select an image within the gallery app by tapping on the thumbnail of an image.
4. The image will enlarge. Tap on the enlarged image.
5. Verify that the native gallery app closes once an image is selected, and that the image view is populated with the image corresponding to the image selected in the native gallery app.
6. Select the "Next" button.

Setup if performing the test capturing an image from the camera is as follows:

1. Upon launch of the application, select the "Camera" button which will launch the Select Image From Camera screen.
2. Select the "Capture Image" button to launch the native camera app.
3. Take a photograph by clicking the circle button in the centre of the screen at the bottom of the screen.
4. Then select the "tick" icon to assert that you are done.
5. Upon doing this, verify that the native camera app closes and the Ye Olde Times app is now visible.
6. Then verify that the image view is populated with the image that was taken using the native camera app.
7. Select the "Next" button.

Then in either case of uploading the image from the gallery or capturing an image from the camera, do the following:

1. Verify that the Create Newspaper screen is displaying.
2. Select the "Next" button.
3. Select "Ok" in the dialog that appears.
4. Verify that the screen is updated to the Share screen and that the image displayed on this screen is the same as it was on the previous screen.

Test Procedure

1. Select the "Finish" button in the bottom right of the Share screen.
2. Verify that a popup dialog displays asking the user if they are sure that they wish to return to the home screen.
3. Select the "Ok" button within the popup dialog.
4. Verify that the home screen is displayed.

Expected Result

When the Finish button is selected, an alert dialog appears asking for the user's confirmation to leave the page and go back to the Home page. Upon clicking "Ok" the home page is displayed.

Test 17: Verify that an error dialog displays when trying to move to the Create Newspaper screen without selecting an image

Brief

Verify that if there is no image in the image view in the Select Image From Gallery screen, the user is unable to move to the next screen. Instead, an error dialog should display indicating to the user that they have not uploaded an image and therefore cannot advance to the next screen.

Setup

1. Upon launch of the application, select the "Gallery" button which will launch the Select Image From Gallery screen.

Test Procedure

1. Select the "Next" button.
2. Verify that an error dialog popup appears with the title "You have not uploaded an image yet" and the message "You must upload an image to halftone in order to progress to the next screen."

Expected Results

Upon clicking the "Next" button, an error dialog popup appears with the title "You have not uploaded an image yet" and the message "You must upload an image to halftone in order to progress to the next screen."