DAT 255

TensionCameraApp: Acceptance Tests

Document description: Describing the acceptance test for TensionCamApp. They are all design from a customer perspective to insure maximum user friendliness and experience. The tests relate to which tasks the application should support and the expected output from these. As a consequence the tests don't necessarily represent a specific user stories that were used in the development but rather stories in the same sequence that they appear in the application.

View Key

Appellation in document	Description
Starting view	First view when starting the application
Camera View	The second view after starting application. The view consists of a live feed screen and two buttons.
Picture preview - view	View that display the user's capture, consists of two buttons.
Result view	Final view where the result of the analyze is displayed. Consists of message and a button.
Back button	In built button by which the user can navigate backwards in the application. Illustrated by a bended arrow on the device
"Take picture"- button	Red button with the text "Take a picture" and an icon of a camera in Picture preview-view and Result view
"Analyze"-button	Green button with the text "Analyze" in Picture preview-view
"Flash"-button	Transparent button with the text "Flash" in camera view
Camera icon	Button with an icon of an camera in Camera view

Starting the application

Test ID: TC01
Test Case description: Starting up the application
Precondition: Installed the application on a device

Version 1

1. Press the icon of the application

Expected result

The user should be presented a view with the TensionCamera-logo and a loading bar which and after a few seconds redirects the client to the camera mode.

Taking a picture

Test ID: TC02
Test Case description: Take a picture using the 'camera button'
Precondition: Installed the application on a device

Version 1

1. Start the application
2. Wait until redirected to camera mode
3. Press the camera icon

Expected result
The user should be redirected to a preview of the recently taken picture

Turning on the flash

Test ID: TC03
Test Case description: Turning on the flash by pressing the 'flash button'
Precondition: Installed the application on a device

Version 1

1. Start the application
2. Wait until redirected to camera mode
3. Press the flash button

Expected result
The user should see the light on the backside of the device turns on

Turning off the flash

Test ID: TC03
Test Case description: Turning off the flash by pressing the 'flash button' twice
Precondition: Installed the application on a device

Version 1

1. Start the application
2. Wait until redirected to camera mode
3. Press the flash button
4. Press the same button once again

Expected result
The user should see that the light on the backside of the device now turns off.

Take a new picture

Test ID: TC04
Test Case description: Take a new picture when a picture is recently taken

Precondition: Installed the application on

Version 1

1. Press camera icon in camera preview
2. Wait until redirected to a picture preview-view
3. Press take a picture -button

Expected result
The user should be redirected back to camera mode.

Analyzing a picture

Test ID: TC05
Test Case description: Analyze a recently taken picture and test the web server
Precondition: Installed the application on a device and connection to web server. Device need to be connected to a computer which works as a hot spot

Version 1

1. Press the camera icon in camera preview
2. Wait until redirected to picture preview-view
3. Press analyze button

Expected result
The user should be redirected to a view where the result is displayed. On the computer….

Take a new picture when a result has been received

Test ID: TC06
Test Case description: Take a new picture by pressing the icon once the result is being displayed
Precondition: Installed the application on a device and connection to web server.

Version 1

1. Press the camera icon in camera preview
2. Wait until redirected to picture preview-view
3. Press analyze button
4. Wait until redirected to result view
5. Press take a picture-button

Expected result
The user should be redirected back to camera mode.

Back Button

Test ID: TC07
Test Case description: Press the back button in each view
Precondition: Installed the application on a device and connection to web server.

Version 1

1. Start the application
2. Press back button when the starting view is visible

Expected result
The application will close, no message

Version 2

1. Press back button when the camera view opens

Expected result
The application will close, no message

Version 3

1. Press back button when the picture preview - view opens

Expected result
User will return to camera view

Version 4

1. Press back button when the result view opens

Expected result
User will return to picture preview-view, no progress bar will be visible

Test ID: TC08
Test Case description: Press all the buttons in the application
Precondition: Installed the application on a device

Version 1

1. Press camera icon

Expected result
Background colour changes.

Version 2

1. Press flash button

Expected result
Background colour changes.

Version 3

1. Press take a picture-button

Expected result
Background colour changes.

Version 1

1. Press analyze

Expected result
Background colour changes.

Test ID: TC09
Test Case description: Check that the right image is being sent to the server
Precondition: Installed the application on a device and gain access to the web server

Version 1
1. Take a picture
2. Wait until redirected to picture preview-view and take note on how the picture looks like
3. Press the 'Analyze'-button
4. Access the web server
5. Check out the path where the images is being saved to (set to the desktop by default)
6. Open up the file IMG1

Expected result
The image should be the same one that was most recently sent ('analysed') from the application. If the process is repeated the file IMG1 should be updated to the most recently sent ('analysed') picture from the application.