

Requirements

ID: 1.01

Title: Activity is paused.

Description: Release shared resources when the activity is paused.

Dependencies:

Rationale: Crashes may occur, both in this application and others, when two applications try to share the same resource(s).

Pre condition: Activity is unused.

Post condition: Shared resources are released.

Rank: 1.

ID: 1.02

Title: Activity is resumed.

Description: Initiate previously released resources when resuming an activity.

Dependencies: 1.01

Rationale: The application doesn't work unless the resources are initiated again.

Pre condition: Resources need to have been released previously in order to resume them once onResume(); is called.

Post condition: Released resources are initiated once again.

Rank: 1.

ID: 1.03

Title: Image compression.

Description: Compress images to a more usable resolution.

Dependencies:

Rationale: Compressing images allows for faster conversion and less strain on the already scarce memory allocated for the application.

Pre condition: The user wishes to convert an image.

Post condition: The picture is converted within a reasonable time frame.

Rank: 5.

ID: 1.04

Title: Conversion limit.

Description: Make sure that the conversion of a picture doesn't take more than five seconds.

Dependencies: 1.03, a smaller, compressed image will convert faster than a larger, uncompressed image.

Rationale: By setting a time limit the application runs smoother if the requirement is fulfilled.

Pre condition: The user chooses to convert an image.

Post condition: The picture is converted in five seconds or less.

Rank: 5.

ID: 1.05

Title: Orientation.

Description: Make sure that the GUI is both logical and intuitive.

Rationale: If orientation proves too difficult, less users will be inclined to use the application.

Pre condition: The user wishes to use the application for a specific service.

Post condition: The user is able to find and use the wanted service without any hassle.

Rank: 4.

ID: 1.06

Title: Application size.

Description: A user wishes to install the application on a phone without using too much application memory.

Rationale: Users will be less inclined to install an application with higher memory usage than necessary.

Pre condition: A user wishes to install an application with low memory usage.

Post condition: Successfully installed the application.

Rank: 4.

ID: 1.07

Title: Offline usage.

Description: An Internet connection isn't required to use the application.

Pre condition: User wishes to start AsciiCam without an internet connection.

Post condition: The application starts.

Rank: 8.

ID: 1.08

Title: Filter options.

Description: A user may switch between different filters to manipulate a taken or loaded picture.

Rationale: More filters will increase the user experience.

Pre condition:

Post condition:

Rank: 8.

ID: 1.09

Title: Picture options.

Description: A user can manipulate a picture, filtered or original, by changing the brightness and contrast.

Rationale: Picture options will work as a nice complement to 1.08 and increase the user experience further.

Pre condition: A user is unsatisfied with the properties of a picture.

Post condition: After using the provided picture options, the user is more or completely satisfied.

Rank: 7.

ID: 1.10

Title: Save availability.

Description: A user wishes to save a picture.

Rationale: It shouldn't matter if the picture is manipulated, converted or original. Neither should it matter if the picture was

taken or loaded from the memory card, a user should always be able to his or her picture.

Pre condition: A user has a picture, manipulated or original, and wishes to save it.

Post condition: The picture is saved with the used filters and manipulation.

Rank: 5.