Lexa Mosby

Senior Project Requirements Document

Requirement #: 1

* 1. Type: Functional requirement (1)
  2. Description: The user should be able to upload their desired image
  3. Rationale: to have an image ready to view and make changes to
  4. Fit Criterion: The image available to edit should be the same image the user chose and uploaded from their device
  5. Priority: 1
  6. Dependencies: none

Requirement #: 2

1. Type: Look and Feel: Appearance (2b)
2. Description: The application shall appear sleek and attractive to a young adult audience
3. Rationale: To have an appealing application that entices new users to use the product
4. Fit Criterion: After first encounter with product, the user should have enjoyed using the product and feel comfortable using it again.
5. Priority: 3
6. Dependencies: 3

Requirement #: 3

1. Type: Ease of Use (3a)
2. Description: The different options to edit an image should be categorized by
3. Rationale: to be able to easily navigate through the editing options
4. Fit Criterion: After first encounter with the product, the customer should be able to easily navigate and choose between the different options to edit their image.
5. Priority: 3
6. Dependencies: 1

Requirement #: 4

1. Type: Functional requirement (1)
2. Description: The user should be able to zoom into the photo
3. Rationale: to be able to temporarily magnify the photo to see small details
4. Fit Criterion: The user should be able to zoom into their image by 75%
5. Priority: 5
6. Dependencies: 1

Requirement #: 5

1. Type: Functional (1)
2. Description: The user should be able to type a custom size to resize their photo
3. Rationale: to be able to enter in a certain width and height to change the photo to
4. Fit Criterion: The user should be able to enter any measurements and change the dimensions of the photo
5. Priority: 5
6. Dependencies: 1

Requirement #: 6

1. Type: Functional Requirement (1)
2. Description: The application shall allow the user to crop their photo
3. Rationale: To be able to crop unwanted sections off the edges of a picture
4. Fit Criterion: The user should be able to crop a certain percentage off of the photo
5. Priority: 5
6. Dependencies: 1, 2

Requirement #: 7

1. Type: Functional Requirement (1)
2. Description: The application should allow the user to upload a picture to layer on top of the modified picture like a collage.
3. Rationale: to be able to layer different photos.
4. Fit Criterion: The user should be able to upload multiple pictures on top of each other.
5. Priority: 7
6. Dependencies: 1

Requirement #: 8

1. Type: Functional Requirement (1)
2. Description: The application should allow the user to add an auto white balance to their photo
3. Rationale: To be able to let the application automatically apply the white balance feature onto a picture
4. Fit Criterion: The user should be able to choose auto white balance, and the application automatically applies the feature
5. Priority: 5
6. Dependencies: 1

Requirement #: 9

1. Type: Functional Requirement (1)
2. Description: The application should allow the user to add a color filter onto their photo
3. Rationale: To be able to change the color scale of the photo
4. Fit Criterion: The user should be able to add multiple filters onto their photo that enunciates and/or changes the different color tones of the picture
5. Priority: 5
6. Dependencies: 1

Requirement #: 10

1. Type:
2. Description: The application should allow the user to save and download the modified version of the image to their device
3. Rationale: to be able to save the changes made as a new picture and download it to the device.
4. Fit Criterion: the user should be able to save any changes they’ve submitted and find the modified photo in their camera roll/pictures
5. Priority: 2
6. Dependencies: 1

Requirement #: 11

1. Type: Functional Requirement (1)
2. Description: The application should allow the user to add special effects
3. Rationale: To be able to change the appearance of the picture by adding different visual effects to the photo
4. Fit Criterion: The user should be able to add focus, blur, and other visual effects
5. Priority: 5
6. Dependencies: 1, 9

Requirement #: 12

1. Type: Functional Requirement (1)
2. Description: The application should allow the user to undo any change that they made
3. Rationale: To be able to reverse an action previously made
4. Fit Criterion: The user should be able to make a change to a photo and reverse that change
5. Priority: 4
6. Dependencies: 1, (4, 5, 6, 8, 9,11, 20)

Requirement #: 13

1. Type: Usability: Ease of Use (3a) and Learning (3c)
2. Description: The product should be fairly easy to use by anyone ages 11 and up with little to no training.
3. Rationale:
4. Fit Criterion: One week’s use of the product should result in a total error rate of less than one percent.
5. Priority: 3
6. Dependencies: 1, 3

Requirement #: 14

1. Type: Performance: Reliability and Availability (4d)
2. Description: the product shall be available to user 24 hours a day, 7 days a week.
3. Rationale: to have a completely accessible product
4. Fit Criterion: The application will be available to anyone at anytime
5. Priority: 3
6. Dependencies: none

Requirement #: 15

1. Type: Security: Privacy (6c)
2. Description: The product shall make its users aware of its information practices before collecting data.
3. Rationale: to have a reputable product that users feel confident using.
4. Fit Criterion: all users shall be aware of how the application is operating with their data
5. Priority: 1
6. Dependencies: none

Requirement #: 16

1. Type: Cultural
2. Description: This product will not be offensive to any religious or ethnic groups
3. Rationale: to have a respectable product that everyone feels comfortable using.
4. Fit Criterion: a product that fosters an inclusive brand for anyone to use.
5. Priority: 1
6. Dependencies: none

Requirement #: 17

1. Type: Performance: Robustness and Fault-Tolerance (4e)
2. Description: The application shall continue to operate in local mode if it loses connection to central server.
3. Rationale: to have a completely accessible product without needing wi-fi
4. Fit Criterion: The user should be able to access the application when they are not connected to the internet
5. Priority: 8
6. Dependencies: none

Requirement #: 18

1. Type: Functional Requirement (1) and Convenience
2. Description: The product shall allow the user to see the before and after to compare to each other and further assess the changes they want to make or reverse.
3. Rationale: to have further insight and convenience when editing the picture
4. Fit Criterion: The user should be able to make as many changes as they want and click a button to show the original picture to compare it with the modified version
5. Priority: 6
6. Dependencies: 1, (4, 5, 6, 8, 9,11, 20)

Requirement #: 19

1. Type: Usability: Understandability and Politeness (3d)
2. Description: The product shall use symbols and words that are naturally understandable by the user community
3. Rationale: to have a product that is easy to use and understand
4. Fit Criterion: The user should be able to easily read and understand the words and phrases in the application
5. Priority: 1
6. Dependencies: none

Requirement #: 20

1. Type: Functional Requirement (1)
2. Description: The user can add a custom watermark on top of their photo
3. Rationale: to have a product that brands and companies can use
4. Fit Criterion: The user shall be able to type in a custom word or phrase to be pasted as a watermark over the picture
5. Priority: 5
6. Dependencies: 1