

Product Backlog

Description:

Data Augmentation API will get from the database an image for which several methods will be done in order to generate a dataset that will be sent to the Neural Network API.

Actors:

Data Augmentation API

Use cases:

1. getImage() - gets the image from the database
2. addImage() - loads the new image to the database
3. rotate90Degrees() - rotate the image at 90o.
4. rotate180Degrees() - rotate the image at 180o.
5. flipVertical() - flips the image vertically.
6. flipHorizontal() - flips the image horizontally.
7. stretch() - randomly zooming in or out or stretch the image vertically or horizontally
8. contrastAug() - random shift to the histogram of the gray-scale intensity values
9. gaussianBlur() - adds the blur effect to the image