

## Product Backlog

### Actors:

- Data Pre-processing API
- DataBase Manager

### Use-cases:

- getImage() - gets the image from the database.
- setImage() - adds the image in the database.
- debugImage() - cleans the “dirty” data from the image.
- defaceImage(e) - common procedure required to fully anonymize an MR brain image; this procedure masks out the face in an MRI making it impossible to “recognize” the subject.
- compareImage(Array<Image> images) - compares the image with a list of images from other patients.
- rotateImage(int grades) - rotates the image at “grades” grades
- scaleImage() - scales the image.
- changeResolution() - changes the resolution of an image.
- enhanceContrast() - enhances the contrast of the given Image.
- cropAndPad() - cuts the useless parts of the CT such that the only thing remaining is the brain.
  - histogramEqualization() - process the contrast adjustment using the image's histogram.
  - MIP() - evidence the serious problems.
  - sendImage() - sends the resulted image to the database