# Specific Requirements

This section contains all the requirements of the Manual Sketches Digitizing software to a level of detail sufficient to enable designers to design a system to satisfy those requirements, and testers to test that the system satisfies those requirements. When using use-case modeling, these requirements are captured in the Use Cases and the applicable supplementary specifications. So, all of those details are divided into categories depending on their area.

## Functionality

Functional requirements

1. Retrieve the raw image

ii) Output PDF document of digitized raw image

### Retrieve the raw image

In the Manual Sketches Digitizer software the user can input the image using the browse option of the user interface. There are some constraints on the input image. The software is capable of digitizing particular type of images.

There should not be overlapped both text and sketches. The software will not recognize words in the font size less than 11.

If the image has above qualities then only the software is capable of processing the better output.

*3.1.1 Output PDF document of digitized raw image*

After the input of the proper type of an image the user have to click process button of the software interface. Then it takes couple of seconds to create the PDF document. The main process of the software is behind this step.

First of all the software will identify the text part and sketch part in the raw image.

Then the character (text part) will be recognized and digitized by Tesseract. And also the sketch part of the image is identified and digitized by OpenCV.

Then the software creates the output PDF using ReportLab python library. User have to save the final output (PDF) in the computer by choosing the location.