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**Software Engineering Project: Synopsis**

**Challenges:**

In today’s world, there is a large amount of information available everywhere. Due to the transformation from (physical data storage) to online data storage, there is a need for software to convert this physical data (in the form of notes, documents, etc) to online/computerized versions of the same. For example, in the healthcare sector, while working to create a complete, universal database about patients to aid the prescriptions and diagnoses given by doctors, it is necessary to be able to document their personal notes online. For this purpose, a software such as Optical Character Recognition is necessary: which will be able to read the text from images-printed or otherwise.

**Aim:**

The aim of this project is to create a software which will be able to recognise text written in an image, and will also be able to analyse handwriting.

**Problem Statement:**

To write free and open source software to recognise text (printed and handwritten) from images.

**Scope:**

The scope of this project is limited to images with text in English. It will not be able to decipher illegible text from images. It will not be able to identify text written in languages other than English. It will be able to understand text written clearly in print and will not be able to correctly identify cursive writing.

**Functionality:**

The software will have the following functionalities:

1. It will be able to identify letters and numbers in images.
2. Given an image with text (within the scope of the software) it will output the text written on the image.

**Technical Requirements:**

The technical requirements for this software are:

1. Linux distribution
2. Python 2.7 onwards
3. Modules: Pyscreenshot, OCRad, Tkinter