

# Software Requirement Specification for Optical Character Reader Version 1.0

Prepared by:  
Arjun Kumar (16IT108)  
Uttam Kumar (16IT250)  
Sulabh Tembhurkar (16IT245)

Dept. Of Information Technology

Date: 17/01/2019

## Table of Contents:

# 1. Introduction:

## 1.1 Purpose:

OCR (optical character recognition) is the recognition of printed or written text characters by a computer. This involves photo-scanning of the text character-by-character, analysis of the scanned-in image, and then translation of the character image into character codes, such as ASCII, commonly used in data processing.

## 1.2 Document Convention:

## 1.3 Intended Audience and Reading Suggestions:

## 1.4 Product Scope:

OCR is a widespread technology to recognise text inside images, such as scanned documents and photos. OCR technology is used to convert virtually any kind of images containing written text (typed, handwritten or printed) into machine-readable text data.

## 1.5 References:

[https://en.wikipedia.org/wiki/Optical\\_character\\_recognition](https://en.wikipedia.org/wiki/Optical_character_recognition)

## 2. Overall Description:

### 2.1 Product Perspective:

### 2.2 Product Functions:

OCR engines have been developed into many kinds of domain-specific OCR applications, such as receipt OCR, invoice OCR, check OCR, legal billing document OCR.

They can be used for:

- Data entry for business documents, e.g. check, passport, invoice, bank statement and receipt
- Automatic number plate recognition
- In airports, for passport recognition and information extraction
- Automatic insurance documents key information extraction
- Extracting business card information into a contact list
- More quickly make textual versions of printed documents, e.g. book scanning

### 2.3 User Classes and Characteristics:

### 2.4 Operating Environment:

### 2.5 Design and Implementation Constraints:

### 2.6 User Documentation:

2.7 Assumptions and Dependencies:

## 3. External Interface Requirements:

3.1 User Interfaces:

3.2 Hardware Interfaces:

3.3 Software Interfaces:

3.4 Communications Interfaces:

## 4. System Features:

## 5. Other Nonfunctional Requirements:

5.1 Performance Requirements:

5.2 Safety Requirements:

5.3 Security Requirements:

5.4 Software Quality Attributes:

5.5 Business Rules: