Software Requirements Specification

for

Label Printing and Barcode Generator

Version 1.0 approved

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
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|  |  |  |  |

# Introduction

## Purpose

The purpose of this document is to present detailed information about Label Maker and Barcode Generation Software. It will explain the features of the software, the purpose of the software, operating environment, Implementation constraints.

## Document Conventions

Abbreviations used TBD- (To Be Declared)

## 1.3 Intended Audience and Reading Suggestions

The SRS is for the customers, testers, documentation writers, developers who want to understand and use this software. Rest of this SRS will contain scope of the product, overall description, Interface requirements, system features and non-functional requirements.

## 1.4 Product Scope

This software Label Printing and Barcode Generator will be useful for various industries. The software will allow the user to design labels and generate barcodes according to their need and customize them according to their choice. Their task will be done in some clicks and will save their time.

Some benefits of using this software:

* Portability i.e user can use this software on any device like laptop/tablet/phones based on Windows platform
* Customized labels with multiple images
* Save designs
* Print designs

## References

IEEE 830.docx

# Overall Description

## Product Perspective

This SRS is about the new, self-contained product, version 1.0 of Label Printing and Barcode Generator.

## Product Functions

The customer can do following things with the Label Printing and Barcode Generator Software:

* Make Labels
  + Specify the number of rows and columns in the label
  + Write text in the label
  + Add multiple images
  + Browse or drag and drop image in the label
  + Alter margin, height and width of text and images
* Generate barcodes
  + Barcode Type (Numeric or Simple)
  + Save barcode

## User Classes and Characteristics

The software is designed for the following 4 types of industries as users:

1. Textile Industry
   1. Require instructions for maintenance
   2. Price
2. Fresh Food Industry
   1. Require symbols for indicating the type of food.
   2. Require expiry date
   3. Ingredients
3. Examination
   1. Needs uniquely identifiable barcodes
   2. Hide Identity
4. Footwear
5. Require Size of the foot
6. Price

All users should know how to use computers.

## Operating Environment

This software can be used on all Windows 10 platform devices like laptops, tablets and phones.

## Design and Implementation Constraints

The software is restricted to Windows 10 users currently. Number of users will increase when people will start using windows 10.

## User Documentation

A detailed guide, “Guide to Label Printing and Barcode Generator” and a video tutorial will be given to the users to make it easier for the users to understand and use the software.

## Assumptions and Dependencies

Currently there are no dependencies in the product. Will include later if any dependency is found.

# External Interface Requirements

## User Interfaces

When user will run the software he will get type of industries as four options. The user can choose any industry and make their respective labels. He can add multiple rows and can also delete them. User can set margin, add text. User will be able to customize labels according to his choice by adding images and barcode. Multiple images can be added. To add images, either user can browse the image or can drag and drop the image. Height, width and margin of image can be altered.

User can also add barcode. There will be an option for selecting the type of barcode i.e Numeric barcode or Simple barcode. After editing is completed, labels can be saved for future reference and finally labels are ready for printing. For printing software will provide the flexibility to use different kind of papers. As this software is portable, the whole process can also be done on tablets and phones based on Windows 10 platform.

## Hardware Interfaces

Supported Device Types:

|  |  |  |
| --- | --- | --- |
| **Laptops** | **Tablets** | **Mobile Phones** |
| All laptops that have Windows 10 Operating System. | * Lenovo Windows 10 Tablets * Huwaei Windows 10 Tablets * HP Windows 10 Tablets * Asus Windows 10 Tablets * Lenovo Windows 10 Tablets | * Lumia 830 * Lumia 430 * Lumia 535 * Lumia 640 * Lumia 635 * Lumia 930 |

## Software Interfaces

The Label Printing and Barcode Generator final product will interact with the following software:

* SQL Lite
* Visual Studio
  + Windows.UI
  + Windows.UI.XAML.Media
  + Windows.UI.XAML
  + Microsoft Blend
  + Microsoft Silverlight

# System Features

In this section, we will be giving details about the features present in the software.

## Create New Label

### Description and Priority

User can create a new label or barcode. This has a high priority.

## Add Rows and Columns

## Generate Barcode

Numeric or simple barcode

## Insert Multiple Images (Browse or drag and drop)

## Save Design

## Print Design

# Other Nonfunctional Requirements

## Performance Requirements

TBD.

## Safety Requirements

Provided by Windows Store.

## Security Requirements

Provided by Windows Store.

## Software Quality Attributes

* Portable
* Database Reliability
* Scalability
* Robust
* Correct