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B.K. Jewellers

**Software Requirement Specification (SRS)**

**Document for**

**“Transfer” part.**

Document NO: 001

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Prepared by:

Group 2

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1. **Introduction**
   1. Purpose:

* The software requirement specification (SRS) is a document that lays out the description of the location transfer process in software that is to be developed as well as the intention of the software under development.
* Software requirements specifications what the location transfer process is supposed to do as well as how it suppose to perform.
  1. Scope:

The main focus of this document is on software requirements for the software to perform the tasks effectively.

* 1. Overview:

In this section all general factors described affects product and it’s requirements which user can understand easily.

1. **Product perspective**

This is a process of whole jeweller’s management software. This section is totally independent. It implies on graphical user interface (GUI). All the working in this software is done in pre define sequence with dependencies in between them.

1. **Interface**

This software is using these following interfaces:

* GUI (Graphical User Interface),
* API (Application Program Interface),
* Alphabetization,
* WHSIWYG(What You See Is What You Get),
* Hypertext.
  1. System interface:

It is based on simple GUI (Graphical User Interface) from which user can see on the computer screen in very effective manner and easy to use functions present on the screen, it also provide simple platform to do sales activities and to record all this activities in the same software.

* 1. Software interface:
* Programming interface: this software is scripted in c++ computer programming language because it is object oriented programming language.
* Communication interface: SMTP email is used to communicate outside the software.
* Connection interface: the “software drivers” are used to activate peripheral devices.
  1. Hardware interface:

The hardware interfaces includes:

* Mouse,
* Barcode scanner,
* Printer,

1. **Operations**

The normal and specific operations which are required by the process are following:

* New voucher number generation
* Selection of locations
* Scanning barcodes
* Stock-out operation
* Printing
* Backup and recovery operation

1. **Product functions**

The location transfer process is supposed to do these following activities:

* Voucher number generation: it includes a generation of new voucher number.
* Scanning: it includes the process of scanning barcodes.
* Stock-out: it includes an automatic process of deducting the item form current location.
* Backup and recovery: it includes the process of maintaining the sale record for future use

1. **Specific requirements**

Our system need one extra equipment “barcode scanner”, which is used to enter the item details by scanning the bar-codes present on the stickers with items.

1. **User characteristics**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Computer knowledge | Role knowledge | Guidelines knowledge |
| Salesman | 60% | 70-75% | 80% |
| Sales manager | 80% | 85-90% | 90-95% |
| Stock manager | 80% | 80-85% | 90% |
| Manufacturing  head | 70% | 90-95% | 90% |

Note: All the measurements are the minimum level.

1. **Constraints**

The constraints must include the limitations as follows:

* Hardware: this apply to salesman, sales manager, stock manager and manufacturing head for adding items only by barcode scanner.
* Parallel operations: multitasking environment must capable of handling 4 tasks.

1. **Performance requirements**
2. Static

* 2 terminals are supported (barcode scanner and printer).
* Maximum 10 users on different machine are supported.
* 100% loading must get completed into 2 seconds.

1. Dynamic

* Every loading process must get completed within 3 seconds maximum.
* 90% scanning should be processed in less than 1 seconds.
* Data fetching process must get completed within 1 second.
* Additional calculations must apply within 1-2 seconds.

1. **Database requirements**

-------- (N/A) ---------

Note: insufficient knowledge.

1. **Security**

Our software provides a level of security required by the company that includes:

* Single user login on multiple machines at a time is restricted.
* No any credential information should pass on software.