



Jewellery

Management

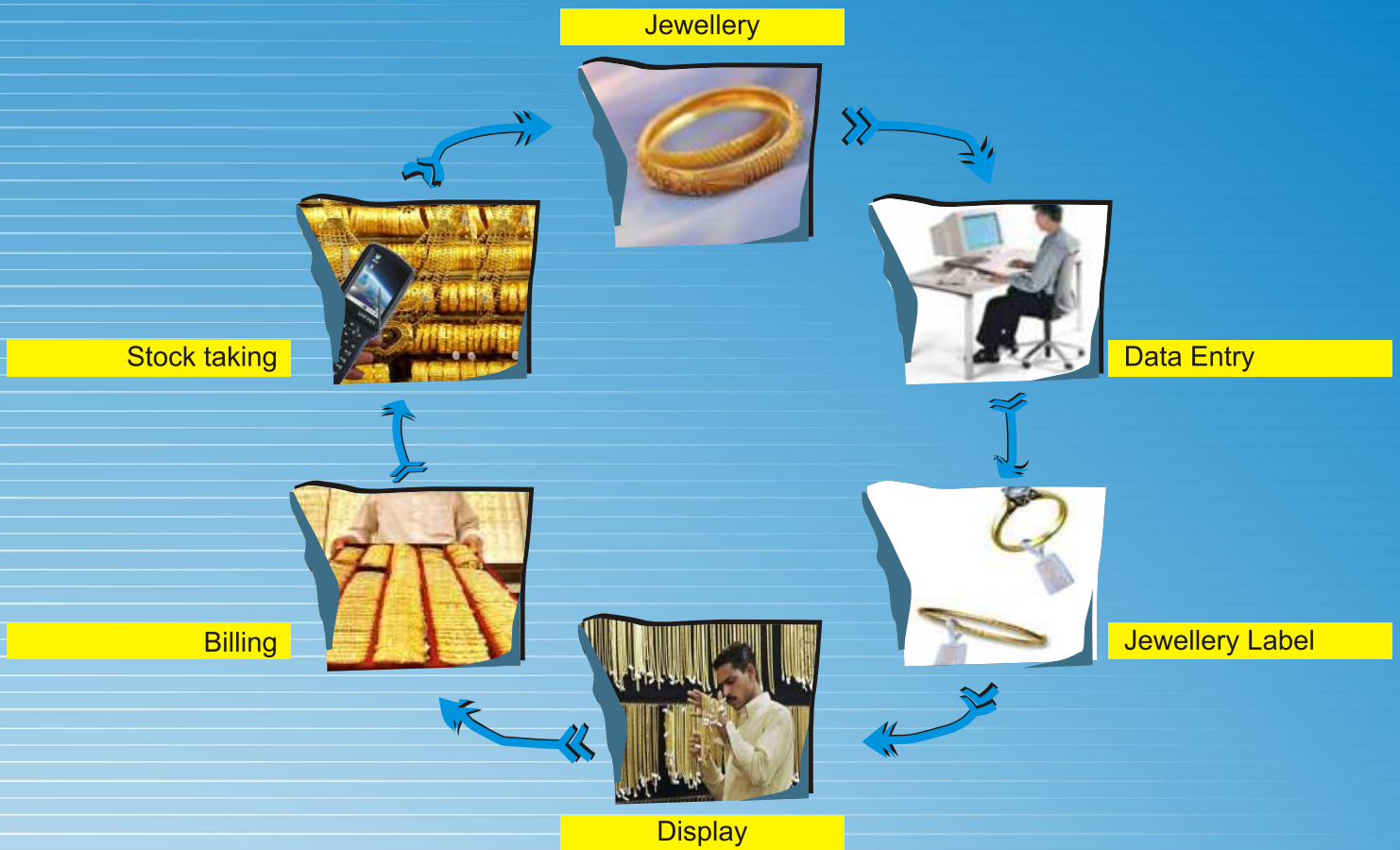
with **RFID**

Technology



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Introduction

A jewellery shop faces a tremendous task of maintaining and accounting of thousands of jewellery items in a single store. The high value of the jewelry items makes the loss of even one item potentially very expensive. Since many jewelry displays are set up daily and then stored in safes in the evenings, there is ample opportunity for loss of product.

Current System

Currently, most jewelers track inventory on daily or weekly basis. This is often a completely manual process, which is very time-consuming, requires handling of each jewelry item, and is error-prone. Some jewelers are using barcode, which still requires line-of site for reading and still leads to additional, unnecessary handling of the jewelry items. A Jewellery store with thousands of high values ornaments find it difficult to know the exact stock of the jewellery in their stores since the current process is manual and time consuming. The need of these stores is thus a system that can automate the inventory taking process thus reducing manual effort and saving time.

Technology

Radio frequency identification (RFID) is a generic term that is used to describe a system that transmits the identity (in the form of a unique serial number) of an object or person wirelessly in a tag, using radio waves. Tags or Transponders are micro chips with an antenna which have a unique Identifier Number and memory which can be programmable according to the customer requirement.



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Proposed Solution

Jewellery Tagging

- When new items are received, a unique serial number will be generated by the software for the item
- RFID jewellery tag, encoded with the item code will be then attached to jewellery item

Billing

- During billing, the RFID tag attached to the item will be read by a desktop RFID reader
- Inventory in the application software will be updated

Physical Verification - Tray Reading

- A long range RFID reader will be used to read all items in a tray
- Tray containing multiple items attached with RFID tag will be shown to the RFID reader and the all item codes will be read by the reader within a few seconds time

Physical Verification - Hand Held Reading

- Hand held reader will be moved near the items attached with the RFID tag and the item code of all items will be captured by the reader
- Captured data will be transferred to the application software



STA IR0057

RFID desktop reader with a reading distance of 0.5 meters. This can be used for Jewellery Tag encoding when new items are received. This also can be used for reading items while billing.



STA IR1207

Long range Integrative RFID reader for Physical verification application. A tray with multiple items can be shown to the reader to read all items in the tray.



STA PT 0107

Handheld reader with PDA for Physical verification application.



STA JO4512

RFID tag for attaching to jewellery items.



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