

LIBRARY INFORMATION SYSTEM (LIS)

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Presentation Layout

- Introduction
- Main Components of Information System Development
- In-house LIS Modules
 - Database Management
 - Information Retrieval System
 - Circulation System
 - Barcode Installation
- Screen Shots

INTRODUCTION

Introduction

- Library Information System also known as a **library management system (LMS)**
- It is an enterprise resource planning system for a library.
- Comprises of relational database, a software to interact with that database, and graphical user interfaces.

LIBRARY AUTOMATION

Library Automation

- ⦿ General term for information & communications technologies (ICT)
- ⦿ Used to replace manual system
- ⦿ Automated Functions are
 - Cataloging
 - Circulation
 - Acquisition etc.

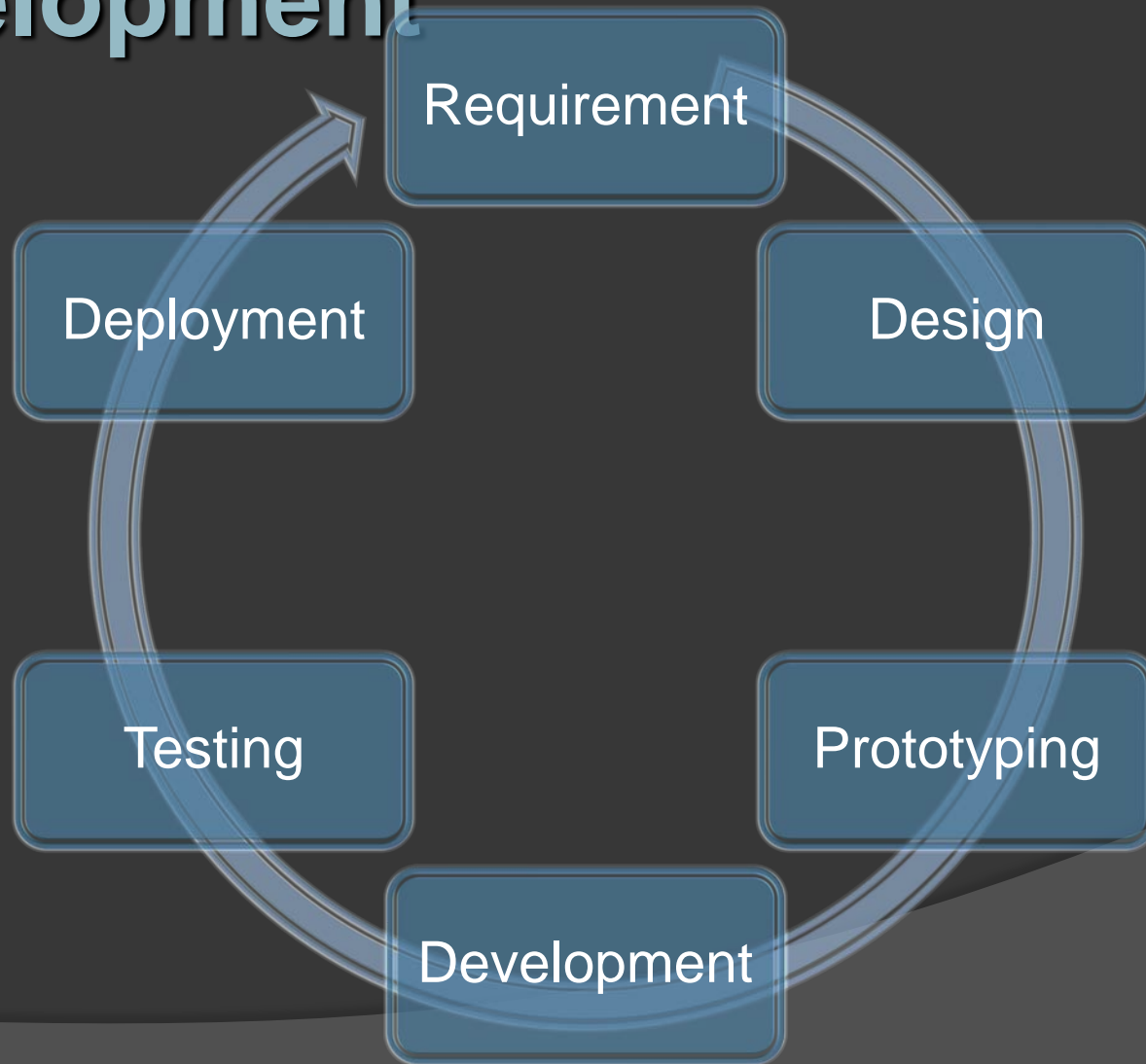
INTEGRATED LIBRARY SYSTEM

Integrated Library System (ILS)

- Shares a common database to perform all basic functions
- Basic Features:
 - Functional Modules
 - Operating System
 - Database System
 - Network Architecture
 - User Interface

INFORMATION SYSTEM DEVELOPMENT

Main Component of Information System Development



IN-HOUSE COLLECTION

In-house Collection

- 32500 Books
- 950,000 articles of 1700 Journals
- 1.4 million NCL
- INIS Database (Contains: Books, Technical Reports, Journals Articles)

IN-HOUSE LIBRARY INFORMATION SYSTEM

Circulation System

- ◎ Handles circulation activities:
 - Check In (Return) of Materials
 - Check Out (Issuance) of Material
- ◎ Manages library materials
 - Location and Status of Material
 - Profiles & Privileges of user
 - Computation and Payment of Overdue Fines

Database Management

- ⦿ Record Insertion
 - To update Database for the new arrivals.
- ⦿ Record Deletion
 - To remove Unwanted Information
- ⦿ Record Modification
 - To rectify errors.

Information Retrieval System

- Basic Search
- Advanced Search (to further refine search process)

Acquisition System

- ① Automates the acquisition process - ordering, receiving, claiming materials from suppliers, and returns, and cancellations of materials
- ① Used to maintain statistics, and in some cases manage accounting activities.
- ① Acquisition can be done online if system is linked to an external network.

Barcode Installation

- ◎ Barcode Generator
 - To generate barcode for library books accession numbers.
- ◎ Barcode Reader

SCREEN SHOTS

Check In

LIBRARY INFORMATION SYSTEM

Login Info Help

- ...NLPS
- [-] **Book**
 - Search & Display Book Record
 - Advance Book Search
 - Book Search By Acc. No.
 - Check In
 - Check Out
- [-] **Journal**
 - Search & Display Journal Record
 - Journal Article Search
- [-] **Report**
 - Search & Display Report Record
- [-] **Member**
 - Reminder Generation
 - Member Registration
 - Display Member List
- ...Exit

Check In

Member ID:

Member Name:

	ACCN	TITLE	DATE OF ISSUE	VALID UPTO	RETURN	DATE OF RETURN
1	P005259	An introduction to solid state	3/11/2010	6/9/2010	NO	
2	P024839	Pascal for science and	3/11/2010	6/9/2010	NO	

Check Out

LIBRARY INFORMATION SYSTEM

Login Info Help

- NLPS
 - Book
 - Search & Display Book Record
 - Advance Book Search
 - Book Search By Acc. No.
 - Check In
 - Check Out
 - Journal
 - Search & Display Journal Reco.
 - Journal Article Search
 - Report
 - Search & Display Report Record
 - Member
 - Reminder Generation
 - Member Registration
 - Display Member List
 - Exit

Check Out

Member ID:

Member Name:

BOOK ALLOWED: BOOK ISSUED:

ACCN LIST	TITLE	DATE OF ISSUE	VALID UPTO

Book Search

LIBRARY INFORMATION SYSTEM

Login Info Help

- NLPS
 - Book
 - Search & Display Book Record
 - Advance Book Search
 - Book Search By Acc. No.
 - Check In
 - Check Out
 - Journal
 - Search & Display Journal Record
 - Journal Article Search
 - Report
 - Search & Display Report Record
 - Member
 - Reminder Generation
 - Member Registration
 - Display Member List
 - Exit

Search & Display Books

Acc. No.	<input type="text"/>	ISBN	<input type="text"/>
Primary Title	<input type="text"/>		
Author	<input type="text"/>		
Editor	<input type="text"/>		
Sub Title	<input type="text"/>	Subcategory	<input type="text"/>
Publisher	<input type="text"/>	Series Title	<input type="text"/>
Conf. Title	<input type="text"/>	Conf. Place	<input type="text"/>
Status	<input type="text"/>	Classification	<input type="text"/>

ACC. NO.	TITLE	STATUS	AUTHOR
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total Records

Insert Book Record

LIBRARY INFORMATION SYSTEM



Login Info Help

- NLPS
 - Book
 - Insert Book Record
 - Search & Display Book Record
 - Advance Book Search
 - Book Search By Acc. No.
 - Journal
 - Insert & Modify Journal Record
 - Search & Display Journal Record
 - Journal Article Search
 - Report
 - Insert Report Record
 - Search & Display Report Record
 - Exit

Insert Book Record

Author Mark	<input type="text"/>	Classification No.	<input type="text"/>		
Acc. Number	<input type="text"/>	Source	<input type="radio"/> Purchase <input type="radio"/> IAEA <input type="radio"/> Gift/Donation <input type="radio"/> Exchange <input type="radio"/> Misc		
Main		Misc. Information			
Author/Editor	<input type="text"/>				
Second Author	<input type="text"/>				
Corporate Author	<input type="text"/>				
Primary Title	<input type="text"/>				
Sub Title	<input type="text"/>				
Edition	<input type="text"/>				
Place of Publication	<input type="text"/>				
Publisher	<input type="text"/>	Date of Publication	<input type="text"/>		
Volume	<input type="text"/>	Pages	<input type="text"/>		
Series	<input type="text"/>				
Notes/Comments	<input type="text"/>				
ISBN	<input type="text"/>	Price	<input type="text"/>		
Copies	<input type="text" value="1"/>	Format	<input type="text" value="HB"/>		
Currency	<input type="text" value="Pak Rs."/>				
Acquisition Date	<input type="text" value="3/15/2010"/>				
Descriptors	<input type="text"/>				
Save		Clear All		Exit	

NUCLEAR KNOWLEDGE MANAGEMENT

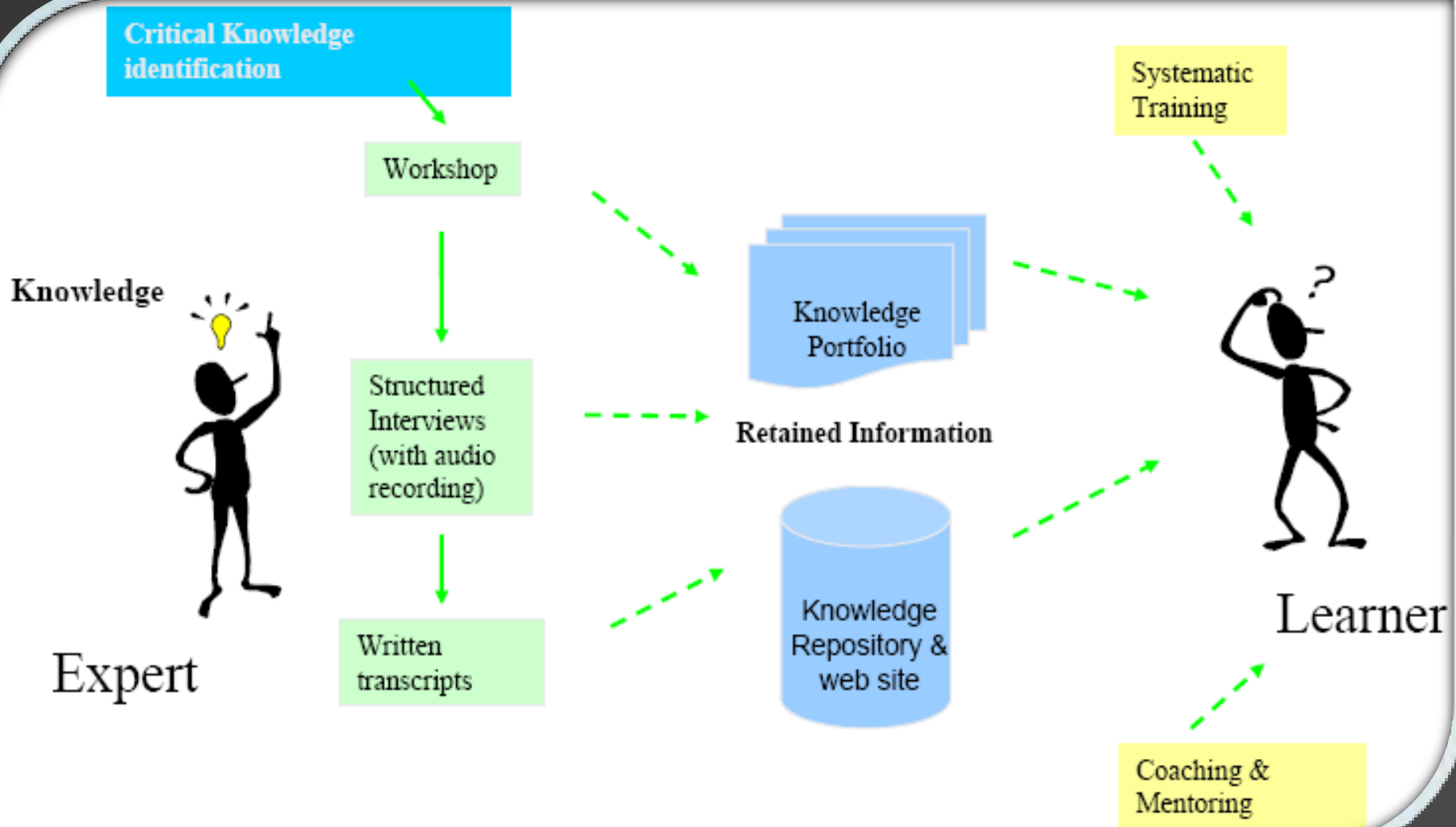
Knowledge Management (KM)

- Essential for the survival of Nuclear Technology.
- Awareness of knowledge loss.
- It includes capture, preservation and transfer of knowledge.
- To capture knowledge systematic nurturing of Knowledge Sharing infrastructure is needed on organizational level.
- Knowledge preservation ensures that it remains readable, accessible and understandable.

Knowledge Management (KM)

- ⦿ Knowledge capturing/transferring methods:
 - Interviews
 - Formal & Informal Discussion Forums
 - Seminars
 - Workshops
 - Observation (Watch & Learn)

Knowledge Management (KM)



THANK YOU