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Human Resource Information System through Software Approach

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INTRODUCTION

In Indian context application of IT like ERP, SAP, Data warehousing and Data Mining are getting popularity in certain areas of industrial operations like production, maintenance, quality control and inventory, accounting and human recourse development. However, in HRD, not much attention is given. This is due to complex nature of human recourse information system. Today some industries are using application of information technology in industry are shown in Fig.1

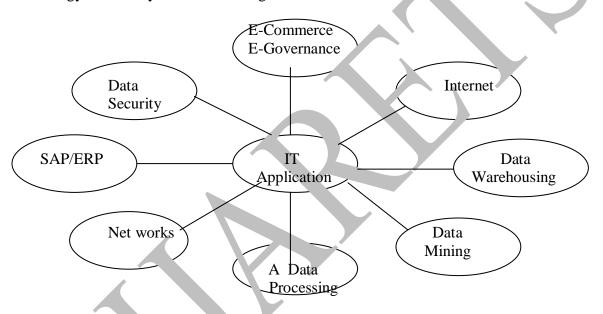


Fig.1: Network of IT Application used in Industry

HRM may be defined as a set of policies, practices and programmes designed to maximize both personal and organizational goals. In other words, HRM is "the planning, organizing, directing and controlling of the procurement, development, compensation, integration, maintenance and reproduction of human resources to the end that individual, organizational and societal objectives are accomplished."

GENERAL STRUCTURE OF HUMAN RESOURCE MANAGEMENT

Human resource information system is a system that supports planning, control, coordination administration and management of human resources of organizations. HRIS also includes a large Number of subsystems that address the information needs of various human resource functions. They provide managers with information, policies, and procedures concerning recruiting, layoffs, employee evaluation, promotion, termination, job descriptions and responsibilities, training, etc. The HRIS is derived from the strategic business plan, the strategic human resources plan, and the strategic information plans as shown below.

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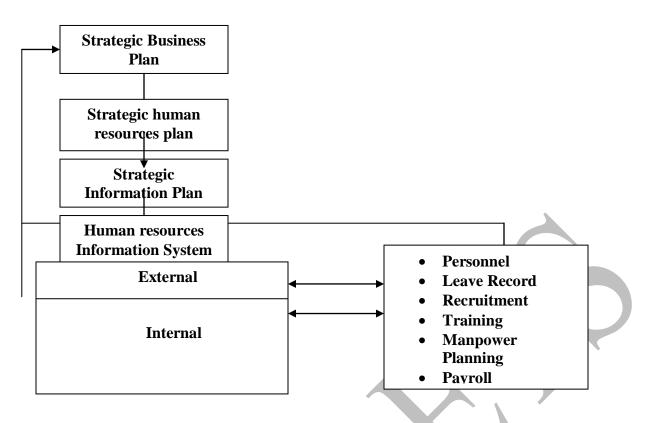


Fig. 2: Context Analysis Diagram for Human Resource Management

Some subsystems within the HRIS are personnel data, payroll, benefits, administration, equity monitoring, processing job applications, monitoring positions, training and development, safety, employee compensation, union negotiations and collective bargaining. The core of an HRIS is a database that contains detailed personal and professional information about each employee in the organization. Personal data include name, age, gender, address, and social security number; professional data include educational level, job title, job description, department code, years of employment, number of promotions, performance evaluations and so on. All other human resource subsystems derive their information from this core database.

An important subsystem of the HRIS is the compliance system, which closely tracks and monitors the organizations record of compliance with government laws and regulations, such as affirmative action, equal employment opportunities and others. In the last two decades, the amount of regulatory paperwork has increased manifold and organizations are actively looking for ways to cut down the time and money they spend on these activities. One way to achieve this objective is through compliance subsystems.

Another vital HRIS subsystem manages records and, generates information regarding recruitment, transfer, promotion, layoff and termination of employees. Often, when any of the above situations occur, a large amount of information is generated and the Organization needs a system that processes it. As the number of lawsuits for improper hiring, promotion and firing policies increases, accurate and timely record keeping becomes even more important.

Other subsystems of the HRIS include systems that develop and maintain job titles and job descriptions for all jobs in the firm, compensation and benefits information systems, and manpower planning systems. A

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performance appraisal system that provides employees with real-time information or corporate performance measurements, thus making continuous performance improvement a way of corporate life rather than an annual chore, is another important subsystem in an HRIS. Pre-testing compensation policies, ensuring that employees meet certification requirements, identifying problem areas in employee turnover, and providing training and employee empowerment programs are some other functions of an HRIS.

Taking the above points into consideration, we have developed user-friendly software on "Human Resource Information System".

GENERAL STRUCTURE OF THE SOFTWARE

The existing reports maintained by them are either generated through spreadsheets or manually, by hand on the paper. Reports generated through spreadsheets have enormous disadvantages as compared to software generated reports, such as:

- The data cannot be accessed as once.
- Present integrated status of the employee cannot be known.
- > Back data cannot be accessed and summarized by a key press.
- Employee wise Leave, training, personnel information cannot be known.
- Manpower analysis cannot be known at any time.

This software provides the following reports of the Human Resource Management:

- Summary of balance leave status
- Period wise detail leave status
- Short list status of new recruitment
- Employees wise personnel information
- Employees wise training record

This software is divided into five sections through which we can maintain the employee wise record of leave status, personnel data, recruitment and training, etc. The some input data screens are shown in Fig. 4 and Fig 5. Some of the period wise reports generated by the Software are also shown in Tables: 1,2,3 and 4.

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Leave Record Recruitment Iraining Record Egit	
EMP recod	
master leave	
transaction form	
Report Balance leave status	
detail leave status	
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FIG. 3: Input Data Screen of Main	Menu
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HUMAN RESOURSE MA			. 8 . 8
	CREEN FOR EMPLOYEE REC	xord	
Employee Code			
Linployee Code	Voo1		
Employee Name	Mr. Vinnet Sharma		
Date of Joining	10/06/2000		
Present Basic Salary	8000.00		
Department	SDC 💌		
Designation	PROGRAMM		
Date of Birth	03/06/1971		
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Start 2 22 22 22 22 22 22 22 22 22 22 22 22	Pa. Pa. Pa. Pa. PA. F FIG. 4: Input Data Screen of e detail leave status	Employee Master Record	
Start Control	Pa Pa Pa FIG. 4: Input Data Screen of E DETAIL LEAVE STATUS HARMA 10 6 2004	Employee Master Record	

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FIG. 5: Input Data Screen of Employee wise Leave Status

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🗃, Form7			_ 8 >
	Appliers Record System		
Applier_code	P001		
Applying_post	System Analyst		
Applier_name	Mr. Anil Sharma	ADD	
Fathers_name	Sh. Ram Rattan Sharma	<u>S</u> UBMIT	
Date_of_birth	03/10/1970		
Sex	Male	E⊠IT	
Qualification	M.TECH		
University_name	Delhi Univrsity		
Experience_in_years	E		
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	FIG. 0: Input Data So	creen of Appliers Information	
Form8			
	Sort Listing Of The An	nliere	

		A Code	A_Name	F Name	Date_Of_Bir	University			1
Applying_Post	system analyst 💽	s-01	Shyamveer:						
		\$02	Aanil		01/02/1980				
Qualification	MCA 💌	s03	Mohan	shri vn singh	01/01/1980	IIT Kanpur			
gaamoadon									
Experience_in_years	1								
SHOW	BEPORT								
<u></u>									
	EXIT								
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	FIG. 7: Input D	ata Scree	n of Sort	Listing	of the A	nnliers			
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🐃 Form4	
TRAINING REC	CORD ENTRY FORM
E_code	BK01
E_name	BK SHARMA
Department	SDC
Designation	SSO 💌
Area/Subject Identified As Training Needs	TECHNICAL
Training_period	One Month
No_Of_Days (Training)	30
Feedback status from employee	Training on VB.NET will be use full for software development on NET
Feedback status from H.O.D	Recommended
<u>A</u> dd <u>S</u> ave	Egit
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FIG. 8: Input Data Screen of Training Record Status

Table –1: Output Employee Training Record

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				EMP	LOYEE TR	AINING	RECO	RD		
							Da	te: 10/06/2004		
	E_CODE	E E_NAME	DEPT	DESG	AREA/SUB	TRAINING	NO_OF	FEEDBACK FROM	FEEDBACK FROM	
					_TRAINING	PERIOD	_DAYS	TRAINEE	HOD	
	n01	mohit	MPD(S)	sso	BEHAVIOUR	1 marto 15 apr	46	fair	avg	
ges: K (1										١٩

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 Table -2: Output Report of Sort List Candidates

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		Zoom 100%	•					
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			SORT LI	ST OFCANE				I
		_		D	ATE: 10/06/200	4		I
		Applyer_Code	A_Name	F_Name	Date_Of_Birth	University]	
		s-01	Shyamveer singh	Shri N singh	03/01/1980	UPTU	1	
		s02	Aanil	shrirann Cha⊓dra	01/02/1980	IIT delhi	-	
		s03	Mohan	shri vn singh	01/01/1980	IIT Kanpur	-	
							J	
es:		N	•				•	Ť
			- ·					_

Table -3: Output Report of Balance Leave Status

BALANCE LEA	VE STATUS OI		
		DATE: 10/06/2004	
E_CODE: m01	E_NAME:		
BALANCE_ON _DATE:	10/6/2004		
		1	
	1		
EL	21		
MEDICAL	2		
CL	7	_	
RH	5		
СОМР	14		
MATERNITY	27		

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KEY FEATURES OF THE SOFTWARE

- > Optimum utilization of working capital
- Smooth flow of information in the areas of management.
- > Helps the management to decide upon the manpower study.
- Better control of the system.
- One billion data records can be handled by the system and therefore the past data can be handled and accessed by a key press.
- Immediate leave status of each employee can be viewed/printed very easily, which is not there in the present system.
- Employee wise personnel data can be viewed/printed by a single key press.
- > Accurate results are ensured as compared to the conventional manual report generation.
- Proper co-ordination between employee training record, leave status, retirement, and personnel data and top management, hence better team work with common objectives.

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