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## A UNIFIED SYSTEM OF LIBRARY SERVICES

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## A UNIFIED SYSTEM OF LIBRARY SERVICES

A

RESEARCH PROPOSAL.

FOR

IOWA STATE TRAVELING LIBRARY

BY

PRAIRIE HILLS LIBRARY SYSTEM

WRITTEN AND PREPARED BY
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#### INTRODUCTION

Often not thoroughly considered in the implementation of ideas is the essential item of planning. Government, especially, should spend adequate time to ensure that the tax dollars being spent are utilized in the most efficient and effective manner.

In many areas, research is necessary as there exists no recorded knowledge that exactly covers the situation.

In addition, a large number of projects are never effectively evaluated after they are once underway or completed. And even more frequently, information concerning the projects run is not distributed.

Thus, this proposal will attempt to cover all of the aformentioned items.

#### PROJECT NEED

There is no need to elaborate here on the "Information Explosion", or on the inability of libraries to keep up with it. However, some items need to be stated or in some cases restated.

The Iowa Code, Chapter 378, outlines a role for the State Library that has been interpretated as meaning that the State of Iowa has an obligation to provide

information for its citzens. Copies of this law are generally available and can be found in the <u>lowa Library</u> Quarterly, April 1, 1964; Vol. 19, Number 12.

The Iowa State Traveling Library in its attempt to carry out its responsibilities, has set up a state plan for library development: <u>Iowa Library Quarterly</u>, January, 1968; Vol. 20, Number 11.

Iowa State Traveling Library has now, in addition to the above, adopted a policy of library automation:
"A Phased Approach to Library Automation".

This was done after several years of study, consultation, and evaluation of present methods in Iowa libraries. The inadequate methods of libraries is a nationwide concern, as is the fact that present means of obtaining information for citizens simply do not meet their needs.

In addition, there is a growing need to serve our "cooperate public" of business and industry. Finally, Governments need for information, quick and reliable, can be partially met by more rapid and responsive methods.

Involved in "indequate methods" is the failure to produce the needed information, or failure to do so within a reasonable time limit. There are many resources in the state that are not being utilized because they are inaccessable by present means. In other cases a good collection is known, but only slow communications are available.

It would also seem practical, from both an operations viewpoint, and the better utilization of funds, to provide a method whereby responsibility in the purchase of material can be shared. If each library knows what each other has, or is adding to its collection, it can then prevent unnecessary duplication. This does not mean to end duplication, indeed many items are not available in sufficient quantity now; but this would provide for sharing collection development--especially under the reference center concept developed by Iowa State Traveling Library.

It's also expected that a essential economy would accur from released staff time. If a number of routine clerical tasks could be performed by data processing, then other important business could be given its fair share of time, and things not now being done could begin.

### **GOALS**

## Goals of this project are:

- To prove operations feasibility of a unified system of library automation.
- To prove the essential economy of a unified system of library automation.
- 3. To produce information as required by law.
- 4. To prove rapid retrieval of bibliographic information.

- 5. To prove increased state-wide availability and accessibility to information.
- 6. To provide a workable program of shared responsibilities in the acquisition of materials.

#### METHOD OF PROJECT

A search of the literature available in the area of automated unified library systems reveals that only partial systems have been tried.

In 1966 the Prairie Hills Library System produced, in cooperation with the Iowa Technical Training Center, "Cooperative Automation Studies". This proved that a unified system approach was possible from a machine-programming stand-point.

After two more years of study, "A Phased Approach to Library Automation" was produced. This study was then approved by the Iowa State Traveling Library, its consultants, the Iowa State Comptroller, Iowa State Data-Processing Director, Iowa State Communication Director, and others.

In addition, the Iowa State Planning Board, and the Iowa State Department of Public Instruction are planning to coordinate certain of their projects when they are ready for funding later on.

#### PROJECT BASIS

"A Phased Approach to Library Automation" was based upon the assumption that each regional library area would continue to provide cataloging services from its center, therefore the multipurpose IBM 1050 system was selected for the first phase.

Since the presentation of "A Phased Approach to Library Automation" the Iowa State Traveling Library has centralized cataloging-xeroxing card services, which obviates the necessity of the IBM 1050's. Several other changes then occurred.

These changes from "A Phased Approach to Library Automation" follow in the next section.

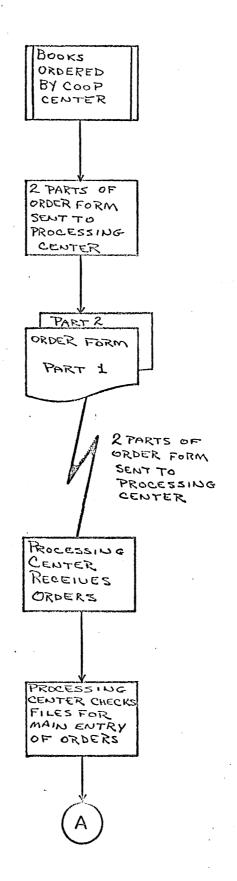
First phase procedures, outlined below, will enable the regional center to handle a small amount of original cataloging, as the largest percentage of catalog cards will be produced in Mason City.

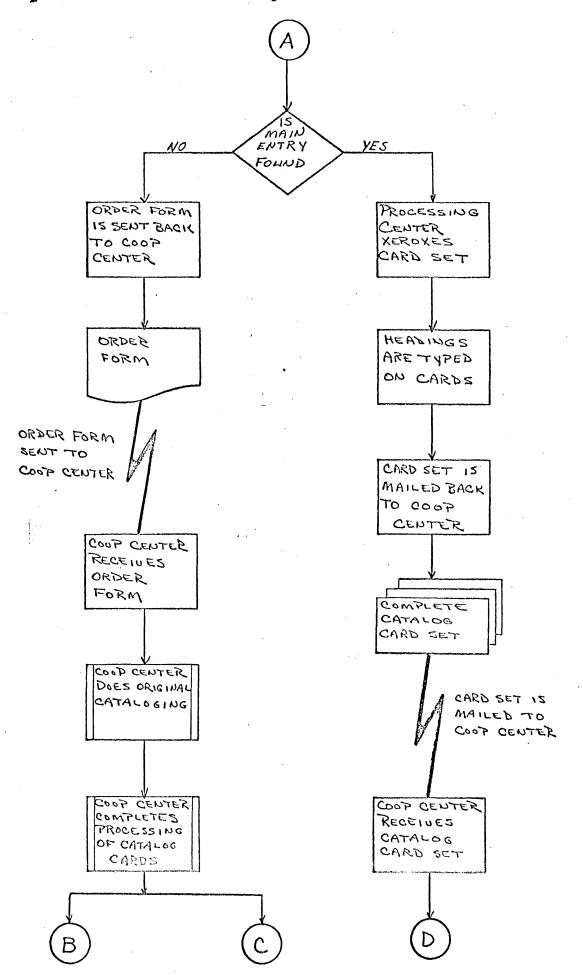
Mason City is to begin centralized xeroxing September 1, 1969 as a temporary measure until the automation project is operational.

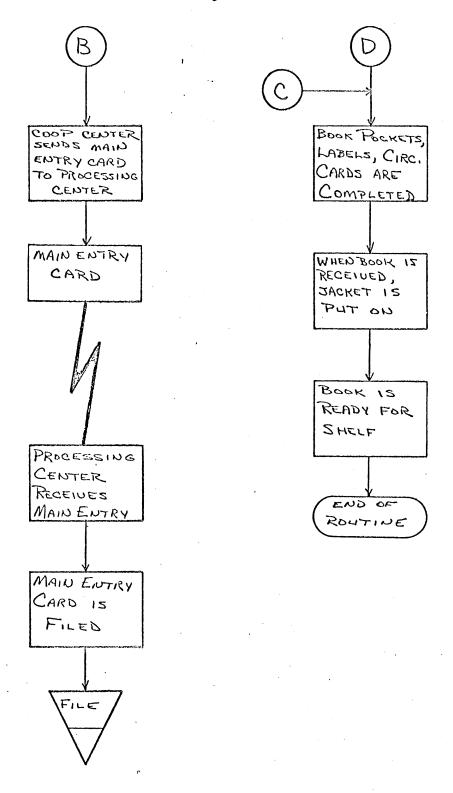
If records are founded for books previously cataloged, or on proof slips, Mason City will produce the catalog card sets. Cooperatives will do original cataloging for the remainder and send main entry cards to Mason City. Cooperatives will also do their own labels and book cards.

To build the State-wide Union Catalog, all new or xeroxed catalog information will be sent to central for conversion to machine readable form.

The flow chart on the next page shows the changes in operation from the "Phased Approach to Library Automation".







Phases two through eight will incorporate the change from the IBM 1050 System to the Teletype System. The Teletype System is scheduled for immediate implementation when the network is completed or before October 1, 1969, following a workshop for staff members involved.

Therefore the pilot phases will begin with Phase
Three. As the Prairie Hills Library System has been the
major mover, the Ottumwa Headquarters will be the project site. The state's library automation staff is currently headquartered there, as well as the library dataprocessing administration.

#### **EVALUATION**

Evaluation processes will be an integral part of the project. Before final writing, this project plan has been reviewed by the governmental bodies and individuals mentioned earlier, and approved with changes incorporated herein.

Continuous evaluation will be performed by three methods: first, by the administration of Iowa State Traveling Library, by report and personal observation and professional judgement;

Second, by a panel of state consultants who will regularly review the project production, by personal observation, professional judgement, and "feed-back" from the libraries served;

Third, by continuous contact with the State DataProcessing Director and his staff of experienced experts
in Data-Processing techniques.

Standard data-processing time and evaluation reports will be used as officially adopted by the State of Iowa, as well as special statistical forms and formula under development for this project. Samples and examples of these special evaluation forms are in the appendix.

Final evaluation, after one full year of operation, will be by all of the above groups and individuals, the Library Data-Processing staff and administration, the libraries affected by the project, as well as possible participation by librarians not included in the project, federal library officials, outside Library Consultants, and the Iowa State Comptroller. The evaluation process shall include both production and goal achievement evaluation as well as other items.

A final printed report will then be submitted to the concerned governmental departments and individuals, and distributed.

#### BUDGET

Budget for this project follows on the next several pages, and includes a Automation Budget Summary as well as detailed budgetary sheets. Also included is an organizational chart.

## AUTOMATION BUDGET SUMMARY

LOCAL			12 MONTHS
Teletype Operators Teletype Terminals TOTAL			\$ 63,000 27,132 \$ 90,132
•			
STATE		•	
Automation Staff Expenses & Rent Line Charges TOTAL	,		\$186,400 40,000 25,200 \$251,600
FEDERAL			
IBM 360-40 Supplies Other Equipment TOTAL	e Weiler		\$267,372 40,000 23,824 \$331,196
GRAND	TOTAL	-	\$672,928

IBM 360-40

Machine	Model or Feature	Qty.	Description of Equipment	Dollars per month
2040	Н	1	Central Processor	\$ 10,505
	3237	. 1	262,144 bytes core storage Decimal arithmetic	118
	6980	1	Selector channel	360
	1052	1	Adapter	232
2821	1032	i	Control Unit	1,000
2021	3615	ī	Adapter for Printer	77
	8637	î	Adapter UCS	5
2540	1	ī	Card Reader/Punch	680
1403	NÎ	ī	Printer "1100 LPM"	900
	4740		Interchange Cartridge	7.5
	8640		Universal Character Set	10
1416	1	2	Cartridge \$1000	200
2822	1	1	Control Unit	216
2611	1	1	Paper Tape Reader	144
2803	1		Tape Control, 800 BPI	670
2401	. 1	4	Tape Drive \$3450	1,380
2841	,		Disc Control	540
8100			Two Channel Switch	103
2321	8079	1	Attachment	180
2311		2	Disc Drive \$5900	1,180
- (			7½million bytes each	
2321	1		Data cell	2,285
			400 million bytes	
1052			Console	65
2701	1	1	Communications Control	206
	7912	1	Telegram Adapter II	77
0040	1302	1	Auto Call 1302	36
2848	22	1	Display Control	800
	3369	1	Adapter	120
	5340	1	Non-Destructive Cursor	10
2260	5341 02	1 2	Non-Destructive Cursor Adapt	ter 5 62
2260	4760	2	Video Display \$310 Alpha-Meric Keyboard \$200	40
	4700	· 4	Alpha-Melic Reyboald \$200	40
		ΤΟΤ	AL MONTHLY RENT	\$ 22,281
		232		y =

3 NDC Circulation Terminals	•
	4,440
1 NDC Controller with Tape Backup	8,676
	7,468
1 ASR Teletype Model 33	1,200

### SUPPLIES

## ESTIMATED \$40,000 PER YEAR

## Supplies Include:

Punched cards Printer paper Paper tape Magnetic tape Disk packs Data cells Card stock Label stock Pre-printed forms Coding forms
Printer and card layouts Charge cards Desks Chairs Lights Card files Tape files Supply cabinets File cabinets Telephones

# BELL TELEPHONE:

Line Charges - Estimated \$ 2,100 per month Estimated \$25,200 24 months

### 12 MONTH BUDGET FOR LIBRARY AUTOMATION

### STAFF

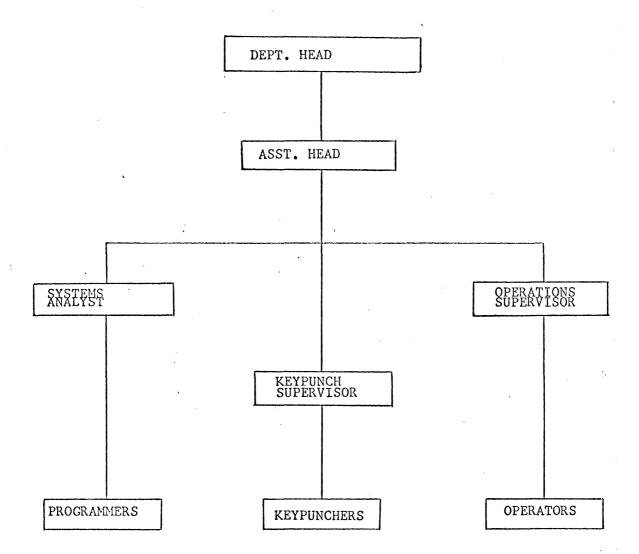
(1)	Department Head	\$	16,000
(1)	Assistant Head		14,000
(2)	Systems Analysts		24,000
(4)	Programmers		28,800
(1)	Operations Supervisor		10,000
(6)	Computer Operators		36,000
(2)	Teletype Operators		8,400
(8)	Keypunch Operators		38,400
(1)	Secretary		5,400
	Part-time Help	•	5,400
	TOTAL	\$	186,400

## PERSONNEL EXPENSES AND RENT

Includes traveling, program testing program education, rent, electricity, heat, air-conditioning, computer flooring, and other miscellaneous expenses.

\$ 40,000

## AUTOMATION STAFF ORGANIZATION CHART



# GENERAL

How many	librarie	es have join	ed your coop	erative		
since aut	omation	started?				relances
Has servi	ce of pa	atron increa	sed?		yes_	no
Why or Wh	y not?	Comments.				
			•			
	•					
		,				
Will you	stay in	the automat	tion program?		yes	no
Why or Wh	y not?	Comments.				
		•	•			
			•			
	· !		•			
	, , , , , , , , , , , , , , , , , , ,					
How much	staff i	s released t	from technica	1 pro-		
cessing,	hours pe	er staff per	r day?			material constitutions
What are	they do:	ing instead	of technical	pro-		
cessing?						
		•				

## GENERAL

How many patrons are using library services	and measurable of in the measurement of the second
now?	
Has automation of library service been	•
publicized to your patrons?	yesno
Do the patrons know what library automa-	
tion will do for them as a user of the	
library?	yes no
If no above, are you going to advertise	
the automation service of the library,	•
and what it does for the patron?	yes no
Why or Why not? Comments.	
Does the Reference Network of Teletype	
help your library in reference questions?	yes no
Why or Why not? Comments.	

# INTERLIBRARY LOAN REQUEST

	BEFORE	AFTER
Number of books wanted on Interlibrary		
Loan Request?	distance in the same in the sa	
Number of books received?	On special monethic stration relativistic dates during	
Time to locate a book or reference?		
lours of work involved in locating		
a book or reference?	emeriment has shown about the his	en alest soll tim tel soll to entre entre soll in the
Average time to find and receive		
book or reference material?	Strangeringeniere easterspizitz.	to list value in a list in the
The average cost of finding book or		
reference material?		

# BOOK ORDERING

	BEFORE	AFTER
Number of books ordered?	·	
% of discount?	Challe parable and department	
Length of time to receive books?	den Times a commence de la commencación	;
Length of time to receive financial		
report of books?	.  Control algorithm approach in all algorithm and algorit	distance in the second
Is fund accounting up-to-date?	@cc@njedzechneck Calerty, active new	御袖をかけて ごっちからあれてが、同さなり、よつ
Number of book funds?		
Amount of time required of bookkeeper		
to keep funds in up-to-date?		
Number of libraries that accounts		
are kept for?		

# CATALOGING QUESTIONNAIRE

	BEFORE	AFTER
How many books are originally		
cataloged?	and the second second second second	
How much staff time is needed for		
originally cataloging? Professional	On the control of the	
Non-Professional		, 
How much time to process a book		
completely?	en elderne kongestrem lake som o nation gangd	
What is the time lag between receiv-		
ing a book and putting book on shelf?	gandifused investment of the control	gaseatheraphic decrees the military that
How up-to-date are your financial		
reports? (days behind)	Gertificación (Adrielan Princepounte	Control of the Contro
Do you like the catalog cards central		;
sends to you?	yes	no
Why or Why not? Comments.		
		1
	•	
Do you like the use of stickers for		
book cards, pockets, and spine labels?	yes	no
Why or Why not? Comments		,

## ROTATIONS

Has automation of rotation reduced		
staff time at rotation?	yes	no
If reduced, how much staff time?	hou	ırs
Has it made rotation faster?	yes	nc
If faster, how much faster?	hou	irs
Do you want rotation to be kept		
automated?	yes mathangurant south supply	nc
Why or Why not? Comments.		

## CIRCULATION QUESTIONNAIRE

	BEFORE	AFTER
Time of writing overdue notices?		
Patrons response of overdue notices		
After One?	Conference of the Conference o	
After Two?	· ·	The state of the s
Number of pick-up of books or		
appropriate action?	Contract the state of the state	electric tests and the little states and the
Checking of patrons with overdue		
books already out when checking out		
another book?	Like	Dislike
Has circulation increased?	yes	no
What is the circulation of your library?		
How much staff is needed for circula-		
tion?		**

