C O N T E N T S

		page
	List of tables	viii
	Foreword	ix
	Acknowledgements	x
1	**Project description**	1
1.1	Introduction	1
1.2	Study objectives	1
1.3	Study scope	2
1.3.1	Investigation	2
1.3.2	Testing	2
1.3.3	Feedback	3
2	**Microcomputers and systems software**	4
2.1	Microcomputers	4
2.2	Business applications	5
2.3	Library applications	7
2.4	Software	7
2.4.1	Systems software	7
2.4.2	CP/M operating system	8
3	**Methodology**	10
3.1	Introduction	10
3.2	Library applications of microcomputers	10
3.3	Analysis of library applications	12
3.3.1	Example of analysis of library applications	13
3.4	Software analysis	21
3.4.1	Introduction	21
3.4.2	Systems software investigated	23
3.4.3	Types of package not investigated	24
3.4.4	Use of systems software	24
3.5	Hardware analysis	25
4	**Specification 1: circulation control**	27
4.1	Basic requirements	27
4.2	Software specification	28
4.3	Information required	40
4.4	Discussion	40
4.4.1	Specification	40
4.4.2	Sample record and file sizes	41
4.4.3	Software solution(s)	41
4.5	Conclusions	42

5	**Specification 2: acquisitions**	43
5.1	Basic requirements	43
5.2	Software specification	44
5.3	Information required	55
5.4	Discussion	56
5.4.1	Specification	56
5.4.2	Sample record and file sizes	56
5.4.3	Software solution(s)	57
5.5	Conclusions	58
6	**Specification 3: cataloguing**	59
6.1	Basic requirements	59
6.2	Software specification	60
6.3	Information required	73
6.4	Discussion	73
6.4.1	Specification	73
6.4.2	Sample record and file sizes	74
6.4.3	Software solution(s)	75
6.5	Conclusions	76
7	**Specification 4: notification**	77
7.1	Basic requirements	77
7.2	Software specification	78
7.3	Information required	85
7.4	Discussion	85
7.4.1	Specification	85
7.4.2	Sample record and file sizes	85
7.4.3	Software solution(s)	86
7.5	Conclusions	86
8	**Specification 5: small databases**	87
8.1	Basic requirements	87
8.2	Software specification	88
8.3	Information required	95
8.4	Discussion	95
8.4.1	Specification	95
8.4.2	Sample record and file sizes	95
8.4.3	Software solution(s)	95
8.5	Conclusions	96
9	**Specification 6: periodicals circulation**	98
9.1	Basic requirements	98
9.2	Software specification	99
9.3	Information required	109
9.4	Discussion	109
9.4.1	Specification	109
9.4.2	Sample record and file sizes	110
9.4.3	Software solution(s)	110
9.5	Conclusions	112
10	**Test**	113
10.1	Introduction	113
10.2	Execution of test	113
10.3	Discussion	115

11	**Conclusions**	117
12	**Recommendations**	118
13	**References**	119
14	**Bibliography**	121
15	**Glossary**	132
Appendix 1	**Sources of information on microcomputers**	137
Appendix 2	**Systems software included in software analysis**	138
	Data entry	138
	Sort/merge packages	139
	Editors	141
	File-handling	142
	Report writers	144
	Data management packages	145
	Database management packages	147
	Some comments on systems software packages	149
	Names and addresses of producers and suppliers	150
Appendix 3	**Microcomputers - hardware and prices**	152
Other reports		157

LIST OF TABLES

2.1 Business software for micros 6
2.2 Common types of systems and applications software 8

3.1 Library applications of microcomputers 11