Function Point Metric for Book Shop Automation System

STEP 1: COMPUTE UFP

EI	EO	EQ	ILF	EIF
Category	Demand_list	Availability_status	Demand_db	
Book_title	Order_status	Request_field	Books_db	
Author_name	Avail_book_list	Sales_statistics	Inventory_db	
E-mail	Inventory_level	Freq_user_list	Sales_record	
Book_details	Rack_No.			
Price	Sales_receipt			
ISBN_no	Bill			
No_of_copies				
Publisher_address				
EI=9	EO=7	EQ=3	ILF=4	EIF=0

UFP =
$$(9*4) + (7*5) + (3*4) + (4*10) + (0*7)$$

= 123

STEP 2: REFINE UFP

El		EO	
Category	3	Demand_list	7
Book_title	3	Order_status	4
Author_name	3	Avail_book_list	7
E-mail	3	Inventory_level	7
Book_details	6	Rack_No.	4
Price	3	Sales_receipt	4
ISBN_no	3	Bill	4
No_of_copies	3		
Publisher_address	6		
	33		37

EQ		ILF		EIF	
Avilability_status	6	Demand_db	15		
Request_field	3	Books_db	15		
Sales_statistics	6	Inventory_db	15		
Freq_user_list	6	Sales_record	15		
	21		60		0

STEP 3: COMPUTE FP

1. Reliable backup and recovery	4
2. Complexity of Data Communication	4
3. Distributed Processing	3
4. Performance Criticality	3
5. Operational Environment	2
6. Online Data Entry	4
7. Multi Screen or Multi Operational Online Data Entry	2
8. Online Updation of ILF	5
9. Complexity of Inputs, outputs, files and inquiries	4
10. Complexity of Internal Processing	5
11. Code Reusability	3
12. Complexity of Installation	0
13. Multiple Sites Installation	0
14. Change Management and Ease of use	3
Total	42

Compute TCF

TCF = 0.65+ 0.01* DI = 0.65 + 0.42 =1.07

Compute FP

FP = UFP *TCF =151*1.07 =161.57