

Volunteer Management System

Function Point Counter

FPC for VMS

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<p style="text-align: center;">Volunteer Management System Function Point Counter</p>

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Distribution List

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I. Data functions

Internal Logical File/External Interface File				Element of complexity		
#	Type	Reference	Description	DET	RET	Complexity
1	ILF	2.3.1	Volunteer Account: <ul style="list-style-type: none"> - Title(Mr. , Mrs. , Ms, Dr, Other) - First Name - Last Name - Address - Country - Email Address (Read Only Field) - Phone(Home) - Phone(Mobile) - Date of Birth - Hobbies/ Interests - Special Skills - Qualifications attained (Education) - Qualifications attained (Others) - Languages - Volunteer Interests (Admin, Befriending, Events (organizing), General Services, IT, Research, Marketing/Publicity, Skilled Services, Others) - Join Date(Read Only) 	16	1	L
2	ILF	2.3.19	Project: <ul style="list-style-type: none"> - Name - Location - Project introduction - Start date - End date - Status (Finished/in progress/ Coming) 	7	1	L
3	ILF	2.3.6	Feedback: <ul style="list-style-type: none"> - Author - Content - Created Time - Status (approved/not approved) 	4	1	L
4	ILF	2.3.7	Story/Experience <ul style="list-style-type: none"> - Author - Topic - Content - Created Date - Status (approved/not approved) 	5	1	L
5	ILF	2.3.8	Project Preference (of volunteer):	2	1	L

			<ul style="list-style-type: none"> - Volunteer Name - Preference details. 			
6	ILF	2.3.32	Request for certificate: <ul style="list-style-type: none"> - Requestor (Volunteer name) - Project name - Authorizer (the authority to approved this request) - Created Date. 	4	1	L
7	ILF	2.3.11	Staff account: <ul style="list-style-type: none"> - Title(Mr. , Mrs. , Ms, Dr, Other) - First Name - Last Name - Address - Country - Email Address (Read Only Field) - Phone(Home) - Phone(Mobile) - Date of Birth - Job Title - Role(Read Only Field) - Join Date 	12	1	L
8	ILF	2.3.18	Project Proposal: <ul style="list-style-type: none"> - Author / Proposer - The approving authority - Proposal details - Created date - Status of proposal. 	5	1	L
9	ILF	2.3.25	Itinerary: <ul style="list-style-type: none"> - Project ID - Start date - End date - Itinerary details (when do what, by whom) - Status (approved/not approved). 	5	1	L
10	ILF	2.3.24	Project Progress: <ul style="list-style-type: none"> - Expected Start date - Expected End date - Actual Start date - Actual End date - Status. 	5	1	L
11	ILF	2.3.23	Project Calendar: <ul style="list-style-type: none"> - Project name - Calendar details. 	2	1	L
12	ILF	2.3.32	Certificate: <ul style="list-style-type: none"> - Certificate name - Volunteer name - Project name - Certificate content. 	4	1	L

13	ILF	2.3.35	System parameter: <ul style="list-style-type: none">- Parameter name- Parameter value	2	1	L
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II. Transactional Functions

External Input (EI)/ External Output (EO)/External Enquiry (EQ)				Element of complexity		
#	Type	Reference	Description	DET	FTR	Complexity
1.	EI		Register Volunteer Account: <ul style="list-style-type: none"> - User name - Password - DOB - Email - Phone 	5	1	L
2.	EI		Update Volunteer Profile:	5	1	L
3.	EI		Retrieve Forgotten Password	2	1	L
4.	EI		Change Password	2	1	L
5.	EI		Post Feedback to Project: <ul style="list-style-type: none"> - Created By - For which project - Content - Created Time - Status (approved/not approved). 	5	1	L
6.	EI		Share Experience and Inspiring stories: <ul style="list-style-type: none"> - Author - Topic - Content - Created Date - Status (approved/not approved) 	5	1	L
7.	EI		Raise Interest to Project <ul style="list-style-type: none"> - Volunteer Name - Preference details 	2	1	L
8.	EI		Send Request for Certificate <ul style="list-style-type: none"> - Requestor (Volunteer name) - Indicated project - Authorizer (the authority to approved this request) - Created Date 	4	1	L
9.	EI		Delete/Deactivate Volunteer Account	5	1	L
10.	EI		Register Staff Account By Admin <ul style="list-style-type: none"> - Staff name - Password - Department - Position / Role (Project director, PM, lead...etc.) - DOB - Mobile phone - Email 	7	1	L
11.	EI		Update Profile By Staff	7	1	L
12.	EI		Retrieve Forgotten Password	2	1	L

13.	EI		Change password	2	1	L
14.	EI		Manage Staff Role	2	1	L
15.	EI		Delete/ Deactivate Staff Account	7	1	L
16.	EI		Propose Project - Author / Proposer - The approving authority - Proposal details - Created date - Status of proposal	5	1	L
17.	EI		Approve/Reject project proposal	5	1	L
18.	EI		Setup project details - Name - Location - Start date - End date - Status	5	1	L
19.	EI		Invite Volunteer By Email	10	2	A
20.	EI		Assign project member and roles	6	2	A
21.	EI		Setup itinerary plan	5	1	L
22.	EI		Setup project calendar - Project name - Calendar details	2	1	L
23.	EI		Update project progress - Expected Start date - Expected End date - Actual Start date - Actual End date - Status	5	1	L
24.	EI		Prepare Itinerary Plan - Project ID - Start date - End date - Itinerary details (when do what, by whom) - Status (approved/not approved)	5	1	L
25.	EI		Submit Itinerary Plan	5	1	L
26.	EI		Approve/Reject Itinerary Plan	5	1	L
27.	EI		Upload Certificate Template - Certificate name - Volunteer name - Certificate content - Project name	4	1	L
28.	EI		Request certificate by volunteer	4	1	L
29.	EI		Configure System Parameter - Parameter name - Parameter value	2	1	L

External Input (EI)/ External Output (EO)/External Enquiry (EQ)				Element of complexity		
#	Type	Reference	Description	DET	FTR	Complexity
1.	EQ		Logon Input: <ul style="list-style-type: none"> - ID - Password Output: <ul style="list-style-type: none"> - Security level 	2	1	L
2.	EQ		Browse for project Input: <ul style="list-style-type: none"> - Start date - Location Output: <ul style="list-style-type: none"> - Name - Location - Start date - End date - Status 	2	1	L
3.	EQ		Display Volunteer Account Input: <ul style="list-style-type: none"> - Volunteer name Output: <ul style="list-style-type: none"> - User name - DOB - Role (Team lead/member) - Address - Email - Phone 	1	1	L
4.	EQ		Display Staff Account Input: <ul style="list-style-type: none"> - Staff name Output: <ul style="list-style-type: none"> - Staff name - Department - Position / Role (Project director, PM, lead...etc.) - DOB - Mobile phone - Email 	1	1	L
5.	EQ		Project Tracking Report Input: <ul style="list-style-type: none"> - Project ID Output: <ul style="list-style-type: none"> - Project calendar - Project itinerary - Project progress 	1	1	L
6.	EQ		Volunteer Specific Report Input: <ul style="list-style-type: none"> - Volunteer name Output: <ul style="list-style-type: none"> - No of Projects participated in - No of days spend in each project 	1	1	L

			- Position in each project - Project preference			
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External Input (EI)/ External Output (EO)/External Enquiry (EQ)				Element of complexity		
#	Type	Reference	Description	DET	FTR	Complexity
1.	EO		New password email - User name - New password - Hyperlink to activate new password	3	1	L
2.	EO		Volunteer Email invitation - Project name - Project details - Hyperlink to join project	3	1	L
3.	EO		Generated Certificate - Certificate name - Volunteer name - Project name - Certificate content	4	1	L

III. Unadjusted Function Point Count Summary

ITEM	LOW	AVERAGE	HIGH	TOTAL
External Input	27x3=81	2x4=8	0x6=0	89
External Output	3x4=12	0x5=0	0x7=0	12
Internal File	13x7=91	0x10=0	0x15=0	91
Interface File	0x5=0	0x7=0	0x10=0	0
External Inquiry	6x3=18	0x4=0	0x6=0	18
Unadjusted Function Points				210

IV. Calculate Value Adjustment Factor

CHARACTERISTIC	DI	Reasons
Data Communications	2.5	VMS is an online system with moderate number of users
Distributed Functions	2	The system will be built with multi-tier architecture where system components will be on different boxes
Performance	1	There is no special requirements for performance
Heavily Used Configuration	0	Configuration not mentioned in the URS
Transaction Rate	1	There are only moderate number of end users
On-Line Data Entry	2.5	System is an online system which deal moderately with data input
End User efficiency	2	There are no special requirements of end user efficiency except for some browsers support
On-line Update	2	System is an online system which deal moderately with data update
Complex Processing	1	There is no complicated processing of data in VMS
Re-usability	2	The code should be moderately reusable
Installation Ease	0	It is not mentioned in the URS
Operational Ease	0	It is not mentioned in the URS
Multiple Sites	0	It is not mentioned in the URS
Facilitate Change	1	There is just few requirements for further growth
Total Degree of Influence	17	

V. ADJUSTED FUNCTION POINT COUNT SUMMARY

Adjusted Factor = $0.65 + 0.01 * 17$	0.82
Adjusted FPC = Unadjusted FPC * Adjusted Factor	172