

# Volunteer Management System

## *Function Point Counter*

### FPC for VMS

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<p style="text-align: center;"><b>Volunteer Management System</b> <b>Function Point Counter</b></p>
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<b>Version:</b>	0.1
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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	<b>Volunteer Account:</b> <ul style="list-style-type: none"> <li>- Title( Mr. , Mrs. , Ms, Dr, Other)</li> <li>- First Name</li> <li>- Last Name</li> <li>- Address</li> <li>- Country</li> <li>- Email Address (Read Only Field)</li> <li>- Phone(Home)</li> <li>- Phone(Mobile)</li> <li>- Date of Birth</li> <li>- Hobbies/ Interests</li> <li>- Special Skills</li> <li>- Qualifications attained (Education)</li> <li>- Qualifications attained (Others)</li> <li>- Languages</li> <li>- Volunteer Interests (Admin, Befriending, Events (organizing), General Services, IT, Research, Marketing/Publicity, Skilled Services, Others)</li> <li>- Join Date(Read Only)</li> </ul>	16	1	L
2	ILF	2.3.19	<b>Project:</b> <ul style="list-style-type: none"> <li>- Name</li> <li>- Location</li> <li>- Project introduction</li> <li>- Start date</li> <li>- End date</li> <li>- Status (Finished/in progress/ Coming)</li> </ul>	7	1	L
3	ILF	2.3.6	<b>Feedback:</b> <ul style="list-style-type: none"> <li>- Author</li> <li>- Content</li> <li>- Created Time</li> <li>- Status (approved/not approved)</li> </ul>	4	1	L
4	ILF	2.3.7	<b>Story/Experience</b> <ul style="list-style-type: none"> <li>- Author</li> <li>- Topic</li> <li>- Content</li> <li>- Created Date</li> <li>- Status ( approved/not approved)</li> </ul>	5	1	L
5	ILF	2.3.8	<b>Project Preference (of volunteer):</b>	2	1	L

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

13	ILF	2.3.35	<b>System parameter:</b> <ul style="list-style-type: none"><li>- Parameter name</li><li>- Parameter value</li></ul>	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		<b>Register Volunteer Account:</b> <ul style="list-style-type: none"> <li>- User name</li> <li>- Password</li> <li>- DOB</li> <li>- Email</li> <li>- Phone</li> </ul>	5	1	L
2.	EI		<b>Update Volunteer Profile:</b>	5	1	L
3.	EI		<b>Retrieve Forgotten Password</b>	2	1	L
4.	EI		<b>Change Password</b>	2	1	L
5.	EI		<b>Post Feedback to Project:</b> <ul style="list-style-type: none"> <li>- Created By</li> <li>- For which project</li> <li>- Content</li> <li>- Created Time</li> <li>- Status (approved/not approved).</li> </ul>	5	1	L
6.	EI		<b>Share Experience and Inspiring stories:</b> <ul style="list-style-type: none"> <li>- Author</li> <li>- Topic</li> <li>- Content</li> <li>- Created Date</li> <li>- Status ( approved/not approved)</li> </ul>	5	1	L
7.	EI		<b>Raise Interest to Project</b> <ul style="list-style-type: none"> <li>- Volunteer Name</li> <li>- Preference details</li> </ul>	2	1	L
8.	EI		<b>Send Request for Certificate</b> <ul style="list-style-type: none"> <li>- Requestor (Volunteer name)</li> <li>- Indicated project</li> <li>- Authorizer (the authority to approved this request)</li> <li>- Created Date</li> </ul>	4	1	L
9.	EI		<b>Delete/Deactivate Volunteer Account</b>	5	1	L
10.	EI		<b>Register Staff Account By Admin</b> <ul style="list-style-type: none"> <li>- Staff name</li> <li>- Password</li> <li>- Department</li> <li>- Position / Role (Project director, PM, lead...etc.)</li> <li>- DOB</li> <li>- Mobile phone</li> <li>- Email</li> </ul>	7	1	L
11.	EI		<b>Update Profile By Staff</b>	7	1	L
12.	EI		<b>Retrieve Forgotten Password</b>	2	1	L



13.	EI		<b>Change password</b>	2	1	L
14.	EI		<b>Manage Staff Role</b>	2	1	L
15.	EI		<b>Delete/ Deactivate Staff Account</b>	7	1	L
16.	EI		<b>Propose Project</b> - Author / Proposer - The approving authority - Proposal details - Created date - Status of proposal	5	1	L
17.	EI		<b>Approve/Reject project proposal</b>	5	1	L
18.	EI		<b>Setup project details</b> - Name - Location - Start date - End date - Status	5	1	L
19.	EI		<b>Invite Volunteer By Email</b>	10	2	A
20.	EI		<b>Assign project member and roles</b>	6	2	A
21.	EI		<b>Setup itinerary plan</b>	5	1	L
22.	EI		<b>Setup project calendar</b> - Project name - Calendar details	2	1	L
23.	EI		<b>Update project progress</b> - Expected Start date - Expected End date - Actual Start date - Actual End date - Status	5	1	L
24.	EI		<b>Prepare Itinerary Plan</b> - Project ID - Start date - End date - Itinerary details (when do what, by whom) - Status (approved/not approved)	5	1	L
25.	EI		<b>Submit Itinerary Plan</b>	5	1	L
26.	EI		<b>Approve/Reject Itinerary Plan</b>	5	1	L
27.	EI		<b>Upload Certificate Template</b> - Certificate name - Volunteer name - Certificate content - Project name	4	1	L
28.	EI		<b>Request certificate by volunteer</b>	4	1	L
29.	EI		<b>Configure System Parameter</b> - 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		<b>Logon</b> <b>Input:</b> <ul style="list-style-type: none"> <li>- ID</li> <li>- Password</li> </ul> <b>Output:</b> <ul style="list-style-type: none"> <li>- Security level</li> </ul>	2	1	L
2.	EQ		<b>Browse for project</b> <b>Input:</b> <ul style="list-style-type: none"> <li>- Start date</li> <li>- Location</li> </ul> <b>Output:</b> <ul style="list-style-type: none"> <li>- Name</li> <li>- Location</li> <li>- Start date</li> <li>- End date</li> <li>- Status</li> </ul>	2	1	L
3.	EQ		<b>Display Volunteer Account</b> <b>Input:</b> <ul style="list-style-type: none"> <li>- Volunteer name</li> </ul> <b>Output:</b> <ul style="list-style-type: none"> <li>- User name</li> <li>- DOB</li> <li>- Role (Team lead/member)</li> <li>- Address</li> <li>- Email</li> <li>- Phone</li> </ul>	1	1	L
4.	EQ		<b>Display Staff Account</b> <b>Input:</b> <ul style="list-style-type: none"> <li>- Staff name</li> </ul> <b>Output:</b> <ul style="list-style-type: none"> <li>- Staff name</li> <li>- Department</li> <li>- Position / Role (Project director, PM, lead...etc.)</li> <li>- DOB</li> <li>- Mobile phone</li> <li>- Email</li> </ul>	1	1	L
5.	EQ		<b>Project Tracking Report</b> <b>Input:</b> <ul style="list-style-type: none"> <li>- Project ID</li> </ul> <b>Output:</b> <ul style="list-style-type: none"> <li>- Project calendar</li> <li>- Project itinerary</li> <li>- Project progress</li> </ul>	1	1	L
6.	EQ		<b>Volunteer Specific Report</b> <b>Input:</b> <ul style="list-style-type: none"> <li>- Volunteer name</li> </ul> <b>Output:</b> <ul style="list-style-type: none"> <li>- No of Projects participated in</li> <li>- No of days spend in each project</li> </ul>	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		<b>New password email</b> - User name - New password - Hyperlink to activate new password	3	1	L
2.	EO		<b>Volunteer Email invitation</b> - Project name - Project details - Hyperlink to join project	3	1	L
3.	EO		<b>Generated Certificate</b> - 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
<b>Total Degree of Influence</b>	<b>17</b>	

#### V. ADJUSTED FUNCTION POINT COUNT SUMMARY

<b>Adjusted FPC = Unadjusted FPC * Adjusted Factor</b>	<b>172</b>
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