Storm Cloud Development

Project CM
Function Points

Version 1.2

Revision History

Date	Version	Description	Author
09/Apr/2014	1.0	Initial function points calculation	Storm Cloud Development
15/Apr/2014	1.1	Updated all calculations	Storm Cloud Development
19/Jun/2014	1.2	Inserted new calculations	Storm Cloud Development

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Function Points

1. Function Point Calculation

1.1 Brief Description

Function points are a measurement for the complexity of software. They are based on different factors like number of input and output of the user and they’re not based on a special programming language. This document shows the calculations for different use cases.

2. Use Cases

2.1 Login

Function point calculation for the use case “login”.

	Login	
Domain Characteristic Table		
Number of User Input	2	Simple
Number of User Outputs	2	Simple
Number of User Inquiries	0	Simple
Number of Files	1	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	24,96	

2.2 Logout

Function point calculation for the use case “logout”.

	Logout	
Domain Characteristic Table		
Number of User Input	1	Simple
Number of User Outputs	1	Simple
Number of User Inquiries	0	Simple
Number of Files	1	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	18,24	

2.3 Manage calendars

Function point calculation for the use case “manage calendars”.

	Manage Calendars	
Domain Characteristic Table		
Number of User Input	5	Simple
Number of User Outputs	5	Simple
Number of User Inquiries	3	Simple
Number of Files	5	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	80,64	

2.4 Manage Mail Accounts

Function Point calculation for the Use Case “manage mail accounts”

	Manage Mail Accounts	
Domain Characteristic Table		
Number of User Input	13	Simple
Number of User Outputs	4	Simple
Number of User Inquiries	5	Simple
Number of Files	3	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	60,4	

2.5 Manage Rights

Function Point calculation for the Use Case “manage rights”.

	Manage Rights	
Domain Characteristic Table		
Number of User Input	5	Simple
Number of User Outputs	3	Simple
Number of User Inquiries	1	Simple
Number of Files	2	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	31,85	

2.4 Manage Address Book

Function Point calculation for the Use Case “manage address book”.

	Manage Address Book	
Domain Characteristic Table		
Number of User Input	10	Simple
Number of User Outputs	5	Simple
Number of User Inquiries	2	Simple
Number of Files	2	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	72	

2.5 Manage Appointments

Function Point calculation for the Use Case “manage appointments”.

	Manage Appointments	
Domain Characteristic Table		
Number of User Input	6	Simple
Number of User Outputs	5	Simple
Number of User Inquiries	5	Simple
Number of Files	5	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	60,45	

2.6 Book Meeting Rooms

Function Point calculation for the Use Case “book meeting rooms”.

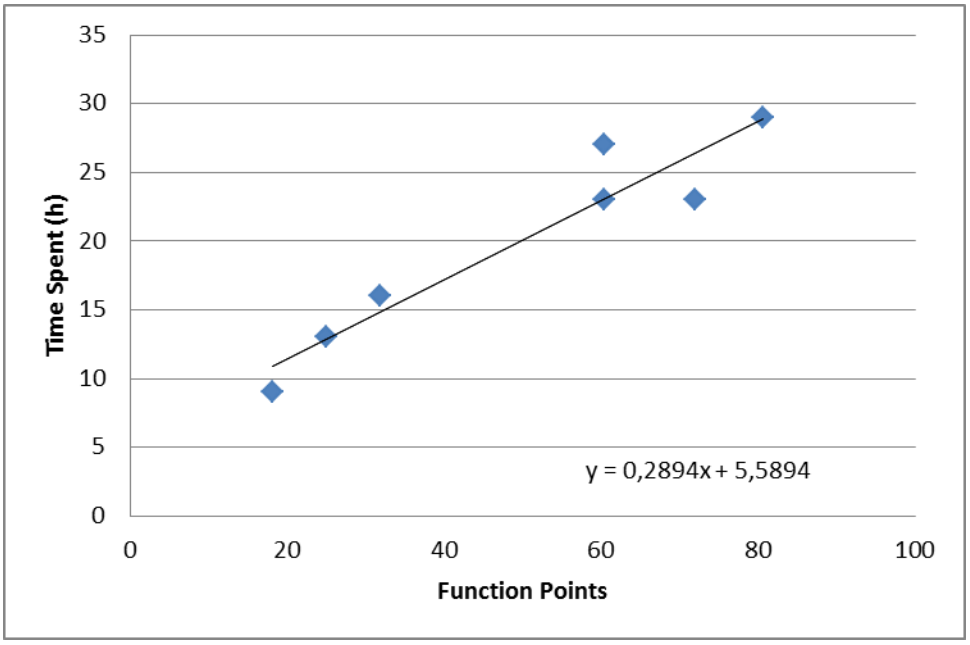
Estimated needed time based on this calculation: 18 hours

	Book Meeting Rooms	
Domain Characteristic Table		
Number of User Input	6	Simple
Number of User Outputs	4	Simple
Number of User Inquiries	5	Simple
Number of Files	3	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	48,75	

3. Calculation Diagram

Below you can see the function point calculation diagram. It can be used to estimate the time which has to be spent to implement further use cases, based on the time spent of implemented use cases and their function points.

If you calculate the function points of a new use case, it is possible for you to check the time you probably need to implement this use case. This provides you a tool to enhance your planning of your future work.



1 Function points in relation to time spent