

SocialFunnel – Function Point Analyse

Was sind Function Points:

Function Points dienen der Bewertung des Umfangs einer Anwendung aus fachlich-funktionaler Sicht. Sie sind die Basis für Aufwandsschätzung, Benchmarking und allgemein zur Ableitung von Kennzahlen zur Produktivität und Qualität herangezogen. Eine Function-Point-Bewertung ist unabhängig von der zu Grunde liegenden Technologie der Anwendung.

Berechnung der Function Points:

http://groups.engin.umd.umich.edu/CIS/course.des/cis525/js/f00/harvey/FP_Calc.html

Unsere Function-Points:

Implementiert:

	Use-Case	Zeit in h	Function Points
1.	Login	5,5	27
2.	Registrieren	9,8	53
3.	Netzwerk hinzufügen	5,4	36

Ausstehend:

	Use-Case	errechnete Zeit in h	Function Points
4.	Neuen Post verfassen	4,73	28
5.	Netzwerk entfernen	2,5	17
6.	Userdaten verwalten	7,6	42
7.	Bei sozialem Netzwerk registrieren	4,2	25
8.	Nachrichtenverlauf ansehen	1,9	14

Complexity Adjustment Table

ITEM	COMPLEXITY ADJUSTMENT QUESTIONS	SCALE					
		No Influence					Essential
		0	1	2	3	4	5
1	Does the system require reliable backup and recovery?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2	Are data communications required?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
3	Are there distributed processing functions?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
4	Is performance critical?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5	Will the system run in an existing, heavily utilized operational environment?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	Does the system require on-line data entry?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	Does the on-line data entry require the input transaction to be built over multiple screens or operations?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
8	Are the master files updated on-line?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
9	Are the inputs, outputs, files or inquiries complex?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	Is the internal processing complex?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	Is the code to be designed reusable?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	Are conversion and installation included in the design?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	Is the system designed for multiple installations in different organizations?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	Is the application designed to facilitate change and ease of use by the user?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Domain Characteristic Table](#) | [FP Calculation](#)

Implementiert:

1. Login

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	<input type="text" value="3"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	<input type="text" value="2"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	3	Name, Passwort, Login-Button
Number of User Outputs	1	Falscher Name/Falsches Passwort
Number of User Inquiries	1	Button-Klick
Number of Files	1	Name-/Passwort-Abgleich
Number of External Interfaces	0	
Function Points	27	

RET	DET	FTR
1	3	1

2. Registrieren

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	0	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	8	Vorname, Nachname, Emailadresse, Passwort, Passwort wiederholen, Geburtsdatum, Nutzungsbedingungen akzeptieren, Registrieren-Button
Number of User Outputs	4	Feld leer, Emailadresse schon vergeben, Passwort anders, Nutzungsbedingungen nicht akzeptiert
Number of User Inquiries	2	Haken setzen, Button-Klick
Number of Files	1	Daten abgleichen/speichern
Number of External Interfaces	0	
Function Points	53	

RET	DET	FTR
2	8	1

3. Netzwerk hinzufügen

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	0	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	5	Netzwerk hinzufügen-Button, Netzwerk auswählen, Emailadresse, Passwort, Aktivieren-Kästchen
Number of User Outputs	2	Passwort/Emailadresse falsch, Konto hinzugefügt
Number of User Inquiries	2	Haken setzen, Button-Klick
Number of Files	1	Daten abspeichern/abgleichen
Number of External Interfaces	0	
Function Points	36	

RET	DET	FTR
2	5	1

Ausstehend:

4. Neuen Post verfassen

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	<input type="text" value="6"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	<input type="text" value="2"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	6	Nachricht, Netzwerk auswählen, Sichtbarkeit einstellen, Datei anhängen, Senden
Number of User Outputs	1	kein Text
Number of User Inquiries	2	Haken setzen, Button-Klick
Number of Files	0	
Number of External Interfaces	0	
Function Points	28	

RET	DET	FTR
2	5	1

5. Netzwerk entfernen

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	0	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	1	Button-Klick
Number of User Outputs	1	Bestätigung
Number of User Inquiries	1	Button-Klick
Number of Files	1	gespeicherte Daten löschen
Number of External Interfaces	0	
Function Points	17	

RET	DET	FTR
2	2	1

6. Userdaten verwalten

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	0	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	8	Vorname, Nachname, Emailadresse, Passwort, Passwort wiederholen, Geburtsdatum, Nutzungsbedingungen akzeptieren, Registrieren-Button
Number of User Outputs	2	Passwort stimmt nicht überein, Änderung bestätigen
Number of User Inquiries	1	Button-Klick
Number of Files	1	geänderte Daten speichern
Number of External Interfaces	0	
Function Points	42	

RET	DET	FTR
2	8	1

7. Bei sozialem Netzwerk registrieren

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	1	Button-Klick
Number of User Outputs	1	Bestätigung
Number of User Inquiries	2	Haken setzen, Button-Klick
Number of Files	1	Daten abspeichern/abgleichen
Number of External Interfaces	1	Registrieren-Seite von sozialem Netzwerk
Function Points	25	

RET	DET	FTR
2	3	1

8. Nachrichtenverlauf ansehen

Domain Characteristic Table

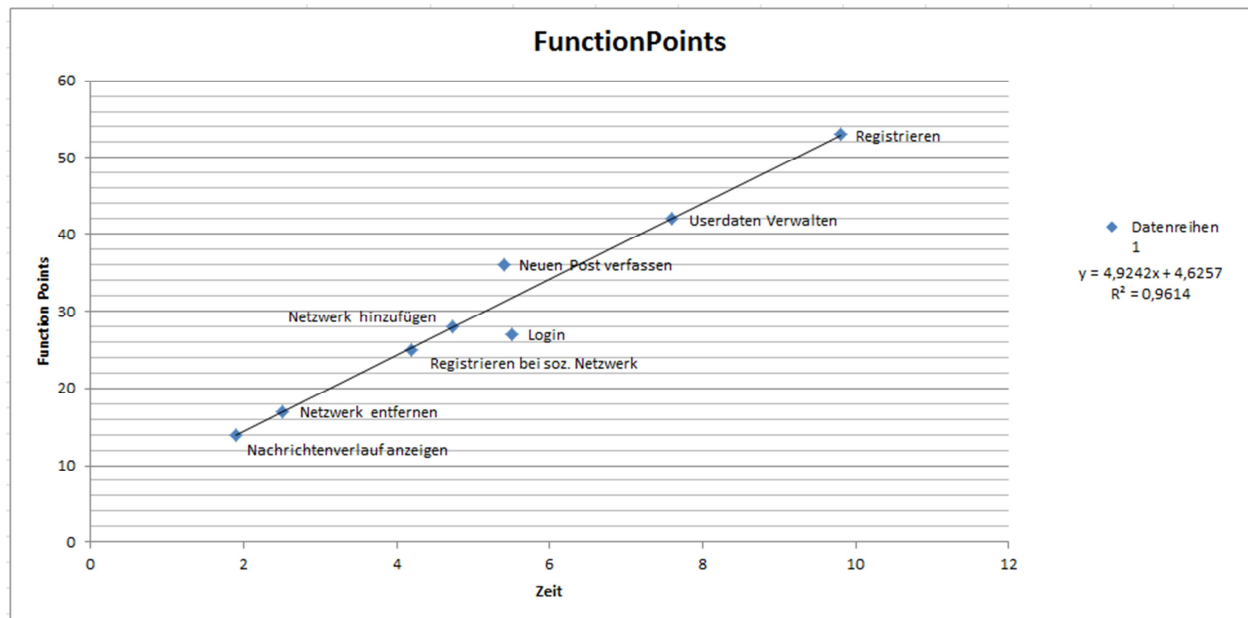
MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)

Number of User Input	1	Auswahl Nachrichten
Number of User Outputs	1	Anzeige der Nachrichten
Number of User Inquiries	0	
Number of Files	1	Nachrichten aufrufen
Number of External Interfaces	0	
Function Points	14	

RET	DET	FTR
1	1	1

Function Points – Graph



Der Graph zeigt die Use Cases angeordnet in Anzahl der Function Points und der tatsächlich benötigten Zeit, sowie die noch ausstehenden Use Cases, für die die benötigte Zeit errechnet wurde.

Außerdem wurde eine Function erstellt, die darstellt, wie viel Zeit eigentlich für eine bestimmte Anzahl von Function Points benötigt werden sollte. Man kann erkennen, dass die bereits implementierten Use Cases relativ nah am Graphen dieser Funktion liegen. Jedoch gibt es auch Ausreißer, wie zum Beispiel der Login-Use Case. Dieser war der erste Use Case, der implementiert wurde, weswegen er mehr Zeit in Anspruch nahm. Auch Neuen Post verfassen ist als Ausreißer erkennbar. In diesem Fall wurde weniger Zeit als vorher gesehen benötigt, was sich darin begründet, dass hier bereits etwas Vorwissen vorhanden war.