Function Point Worksheet for weSTEM Inclusivity Lab

		Weighting Factor				Value (0-5)

Information Domian Values

	Count		simple	average	complex	Choice	
Number of External Inputs (EIs)	14	X	3	4	6	6	= 84
Number of External Outputs (EOs)	1	X	4	5	7	5	= 5
Number of External Inquiries (EQs)	2	X	3	4	6	4	= 8
Number of Internal Logical Files (ILFs)	3	X	7	10	15	10	= 30
Number of External Interface Files (EIFs)	1	X	5	7	10	7	= 7

Total Unadjusted Function Points (TUFP) = **134**

Rate each factor on a scale of 0 to 5:

0 - No Influence	1 - Incidental	2 - Moderate
3 - Average	4 - Significant	5 - Essential

Processing Complexity Calculation

Complexity Weighting Factor	*Brief Description*	Value
Data communications	How many communication facilities are there to aid in the transfer or exchange of information with the application or system?	4
Heavily used configuration	How heavily used is the current hardware platform where the application will be executed?	2
Transaction rate	How frequently are transactions executed daily, weekly, monthly, etc.?	3
End-user efficiency	Was the application designed for end-user efficiency?	4
Complex processing	Does the application have extensive logical or mathematical processing?	1
Installation ease	How difficult is conversion and installation?	2
Multiple sites	Was the application specifically designed, developed, and supported to be installed at multiple sites for multiple organizations?	1
Performance	Was response time or throughput required by the user?	4
Distributed data processing	How are distributed data and processing functions handled?	4
Online data entry	What percentage of the information is entered online?	5
Online Updating	How many ILF's are updated by On-Line transaction?	4
Reusability	Was the application developed to meet one or many user's needs?	4
Operational ease	How effective and/or automated are start-up, back-up, and recovery procedures?	1
Extensibility (Facilitate change)	Was the application specifically designed, developed, and supported to facilitate change?	3

Total Processing Complexity (PC) = **42**

Adjusted Funtion Points =

$[(0.65+(0.01*PC))*TUFP$

= 143

Total LOC = 13795.46
Converting Function Points to Lines of Code (LOC) can be found in Sheet3 of this file

Effort required (person per month) **=**

$2.4 * KLOC ^ 1.05$
37.75150217

Time required (months) **=**

$2.5 * E ^ 0.38$
9.935163507

Number of persons estimate =

Effort required / Time required
3.799786702

Process/File	Component Type	Language
Files		
Administration Data	ILF	JavaScript
User Accounts	ILF	JavaScript
Storing Data and Resources	ILF	JavaScript
Web Resources	EIFs	JavaScript
Webpages		
Homepage	EIs	HTML
Account Page	EIs	HTML
Administration Page	EIs	HTML
Projects Page	EIs	HTML
Search	EIs	JavaScript
Promotions Page	EIs	HTML
Feedback Page	EIs	HTML
Code of Conduct Page	EIs	HTML
Forums	EIs	HTML
Account		
Login	EOs	JavaScript
Logout	EQs	JavaScript
Update Password	EIs	JavaScript
Account Report	EQs	JavaScript
Upload/Update	EIs	JavaScript
Download	EIs	JavaScript
Administrator		
Authorize Upload/Update	EIs	JavaScript
Delete/Remove Violations	EIs	JavaScript

LOC		Number of External Inputs (EIs)	6
HTML 160		Number of External Outputs (EOs)	5
JavaScript 71.11		Number of External Inquiries (EQs)	4
		Number of Internal Logical Files (ILFs)	10
		Number of External Interface Files (EIFs)	7

6 EI JavaScript	2559.96
1 EIF JavaScript	497.77
3 ILF JavaScript	2133.3
1 EO JavaScript	355.55
2 EQ JavaScript	568.88
8 EI HTML	7680
Total LOC	13795.46