Function Point Estimation

	Complexity				
Description	**Total #**	**Low**	**Medium**	**High**	**Total**
Inputs	16	7*3	6*4	3*6	63
Outputs	28	15*4	10*5	3*7	131
Queries	8	5*7	2*10	1*15	70
Files	4	3*7	1*10	0*15	31
Program Interfaces	1	0*5	1*7	0*10	7
Total Unadjusted Function Points (TUFP)					302

Low	Medium	High
*3	*4	*6
*4	*5	*7
*7	*10	*15
*7	*10	*15
*5	*7	*10

The total processing complexity (PC):

Complexity is from 0 to 3: (0=no effect on project complexity; 3=great effect on project complexity)

Task	Complexity (0-3)
Data Communications	3
Performance	1
End-use Efficiency	3
Reusability	0
Operational Ease	2
Distributed Functions	1
Extensibility	1
Online Data Entry	1
Total Processing Complexity (PC)	12

The adjusted processing complexity (APC):
APC=0.65 + (0.01 * TPC)
APC=0.65 + (0.01 * 12) = 0.77

The total adjusted function points (TAFP):
TAFP=TUFP * APC
TAFP= 302*0.77= 232.54

Converting Function Points to Line Of Code (LOC):

Language/Tool	Number of LOC/FP
HTML	34
Python	24
SQL	21

40% will be done in Python
40% will be done in SQL
20% will be done in HTML

Number of lines of code (LOC)= TAFP * # of(LOC\FP) * %
For Python = (232.54) *(24)*(40/100) = 2232.384 LOC
For SQL = (232.54) *(21)*(40/100) = 1953.336 LOC
For HTML = (232.54) *(34)*(20/100) = 1581.272 LOC
So the total LOC = 5766.992 LOC

Estimating the effort:
Effort = 2.4 * LOC/1000
=2.4*5766.992/1000
=13.84 person month

Estimating the schedule time:
Time = 2.5 * (effort)^0.38
= 2.5* (13.84)^0.38
= 6.79 months

Estimating the number of persons:
average of # of persons = effort/time
= 13.84/6.79
= 2.04 persons