0.1 Project Size

The purpose of this section is to estimate Function Points to give an estimation of the project size. We will use this Size Estimation Procedure:

- Determine the function counts by type: Count the number of functions for each Function Type.
- Determine the complexity level for each Function Type.
- Apply weights to the Function Types.
- Compute the Function Points for each Function Type.

Each subsection will take in account a different User Function Type. User Function Types are described in the following table:

External Input (Inputs)	Count each unique user data or user control input type that (i) enters the external boundary of the software system being measured and (ii) adds or changes data in a logical internal file.
External Output (Outputs)	Count each unique user data or control output type that leaves the external boundary of the software system being measured.
Internal Logical File (Files)	Count each major logical group of user data or control information in the software system as a logical internal file type. Include each logical file (e.g., each logical group of data) that is generated, used, or maintained by the software system.
External Interface Files (Interfaces)	Files passed or shared between software systems should be counted as external interface file types within each system.
External Inquiry (Queries)	Count each unique input-output combination, where an input causes and generates an immediate output, as an external inquiry type.

Table 1: Function Types

To determine the complexity level of each Function Type, it's used the following tables:

For ILF and EIF			
Record Elements	**Data Elements**		
	1 - 19	**20 - 50**	**51+**
1	Low	Low	Average
2 - 5	Low	Average	High
6+	Average	High	High

Table 2: External Inputs and External Interface Files complexity distribution

Weights			
Function Type	**Complexity-Weight**		
	Low	**Average**	**High**
Internal Logical Files	7	10	15
External Interface Files	5	7	10
External Inputs	3	4	6
External Outputs	4	5	7
External Inquiries	3	4	6

Table 5: Function Types Weights

For EO and EQ			
Record	**Data Elements**		
Elements	**1 - 5**	**6 - 19**	**20+**
0 or 1	Low	Low	Average
2 - 3	Low	Average	High
4+	Average	High	High

Table 3: External Output and External Inquiries complexity distribution

For EI			
Record	**Data Elements**		
Elements	**1 - 4**	**5 - 15**	**16+**
0 or 1	Low	Low	Average
2 - 3	Low	Average	High
3+	Average	High	High

Table 4: External Inputs complexity distribution

To determine the weights for each Function type, the following table has been used (for each Function Type, a weight is assigned):

0.1.1 Internal Logical Files

0.1.2 External Interface Files

0.1.3 External Inputs

0.1.4 External Inquiries

0.1.5 External Outputs

0.1.6 Computation of Unadjusted Function Points

0.1.7 Fixing Unadjusted Function Points