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Assignment 11 :

To prepare estimation for the System Development using the Function Point Technique.

Function Point Analysis

It was initially developed by Allan J Albrecht in 1979 at IBM & it has been modified by International Function Point user groups.

FPA gives a dimensionless number defined in Function points which we have found to be an effective relative measure of Function value.

FPA provides a standardized method to Functionally size the software work product.

Objectives of FPA

- 1) To measure the Functionality that the user requests & receives.
- 2) To measure software development & maintenance independently of the technology.
- 3) It should be simple enough to minimize the overhead of the measurement process.

Types of FPA :

A) Transactional Functional Type:

- 1) External Input (EI)
- 2) External Output (EO)
- 3) External Inquiries (EQ)

EI processes data or control information
EO is an elementary process that generates data or control information.

EQ is an elementary process made up of an input-output combination.

B) Data Functional Type

1) Internal Logical File (ILF) : A user identifiable group of logically related data or control information maintained within the boundary of application.

2) External Interface File (EIF) : A group of users recognizable logically related data allusion to the software but maintained within the boundary of another software.

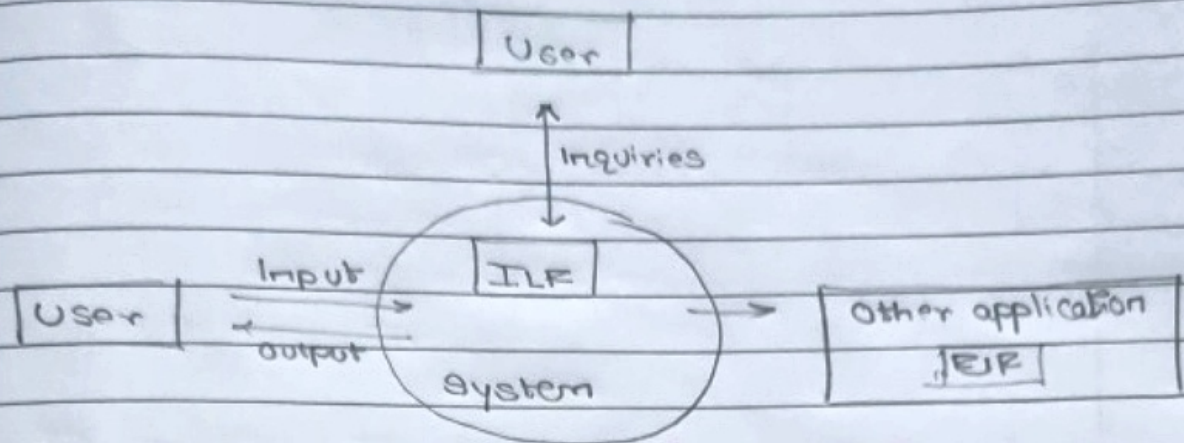
Benefits of RPA:

- 1) RPA is a tool to determine the size of a purchased application package by counting all the Functions included in the package.
- 2) It is a tool to measure the units of a software product to support quality & productivity analysis.
- 3) It is a normalization Factor for Software comparison.

Drawbacks of RPA

- 1) It requires a subjective evaluation & involves many judgements.
- 2) Compared to LOC, there are less research data on Function points.
- 3) Run after creating the design spec.
- 4) With subjective judgement, the accuracy rate of the assessment is low.
- 5) This is a very time consuming method.

	Low	Average	High
1) Number of external input	7	10	13
2) Number of external output	5	7	10
3) Number of external inquiries	3	4	6
4) Number of Internal Files	4	5	7
5) Number of External Interface	3	4	6



Conclusion : Estimation For the system is prepared using the Function Point Technique.