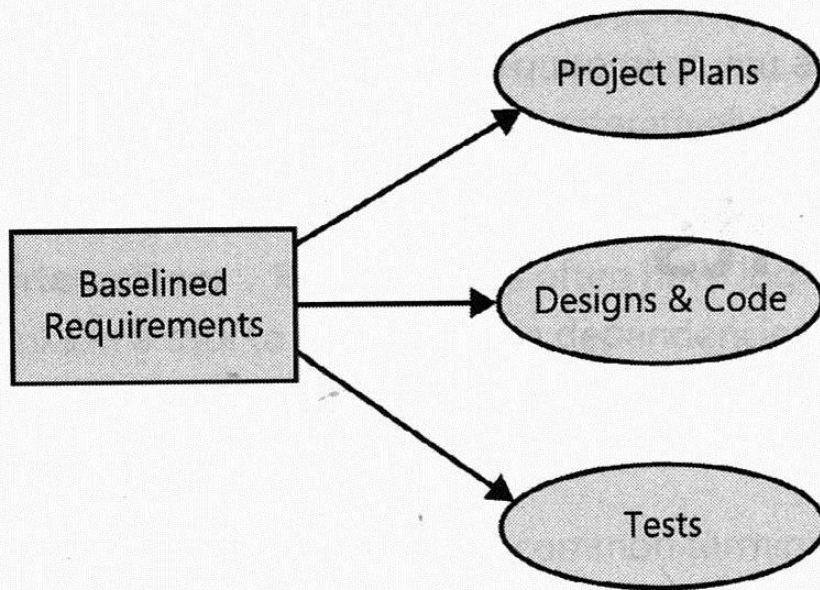


# Beyond requirements development

Chapter 19

# Requirements To Other Activities (pg. 366)



- Use requirements to size the project or iteration
- Base estimates on product size
- Update plans as requirements change
- Use requirement priorities to drive iterations

- Have developers review requirements
- Use quality attributes to drive architecture
- Allocate requirements to components
- Trace requirements to designs and code

- Start test design early
- Have users create acceptance tests
- Base system testing on requirements
- Trace requirements to tests

**FIGURE 19-1** Requirements drive project planning, design, coding, and testing activities.

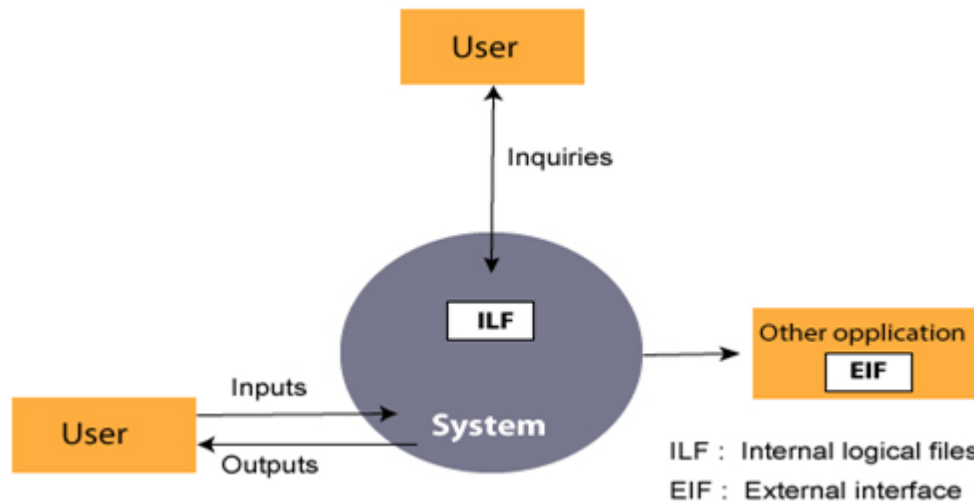
# Estimating Project Size

**Ways to estimate the project size:**

- **# of testable requirements**
- **Function points "**
- **Story points**
- **#, type and complexity of interface elements**
- **Estimated lines of code needed to implement specific requirements**

# Function Points

Measurements Parameters	Examples
1. Number of External Inputs(EI)	Input screen and tables
2. Number of External Output (EO)	Output screens and reports
3. Number of external inquiries (EQ)	Prompts and interrupts.
4. Number of internal files (ILF)	Databases and directories
5. Number of external interfaces (EIF)	Shared databases and shared routines.



# Calculating Function Points

## Computing FPs

Measurement Parameter	Count		Weighing factor			
			Simple	Average	Complex	
1. Number of external inputs (EI)	—	*	3	4	6 =	—
2. Number of external Output (EO)	—	*	4	5	7 =	—
3. Number of external Inquiries (EQ)	—	*	3	4	6 =	—
4. Number of internal Files (ILF)	—	*	7	10	15 =	—
5. Number of external interfaces(EIF)	—	*	5	7	10 =	—
Count-total →						

<https://www.javatpoint.com/software-engineering-functional-point-fp-analysis>