🧩 Requirement Gathering & Analysis

**✅ Objective:**

Establish a clear understanding of the system’s performance expectations and usage patterns.

**📌 Tasks:**

* Identify performance goals:
  + **Response Time**
  + **Throughput**
  + **Resource Utilization**
* Understand the application’s:
  + **Architecture**
  + **User Load**
  + **Expected Usage Patterns**

**📊 Performance Requirements / Metrics:**

| **Metric** | **Target Value** |
| --- | --- |
| **Response Time** | < 2 seconds |
| **Throughput** | > 100 requests/sec |
| **Error Rate** | < 1% |
| **Concurrent Users** | 1000 users |
| **CPU Usage** | < 75% |
| **Memory Usage** | < 70% |
| **Disk I/O** | > 600 operations per second |

**📂 Source of Information:**

* **NFR Document** (Non-Functional Requirements)
* **BRD** (Business Requirements Document)