**Chapter 3**

**Requirement Analysis**

Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In [software](https://searchmicroservices.techtarget.com/definition/software) engineering, such requirements are often called [functional specification](https://searchsoftwarequality.techtarget.com/definition/functional-specification)s. Requirements analysis is an important aspect of [project management](https://searchcio.techtarget.com/definition/project-management).

1. **Performance Requirements**

**Response Time:**

It is basically the time taken to do something after it has been given enough input. Whatever is been given as an output must be measurable in the real system. Care must be taken to ensure that the performance measurement is unambiguous, concise and completely defined.

**Scalability:**

In one respect scalability is simply specified as the increase in the system’s workload that the system should be able to process. The scalability required is often driven by the lifespan and the maturity of the system.

1. **Hardware Requirement:**

**•** Processor: Quad Core 32/64 bit

• RAM: 4 GB

• Hard Disk: 3 GB

• GPU: 1 GB

1. **Software Requirement:**

• Operating System: Windows 7 and Above / Any Linux

• XAMPP / LAMP stack: Webapp

• Python3: Face Recognition

• OpenCV: Image Processing

1. **Hardware Components Required:**

**•** Web Camera.