Chapter 3

**SYSTEM ANALYSIS**

**3.1 Introduction**

Analysis is the process of breaking a [complex topic](http://en.wikipedia.org/wiki/Complexity) or substance into smaller parts to gain a better understanding of it. Analysts in the field of [engineering](http://en.wikipedia.org/wiki/Engineering) look at requirements, structures, mechanisms, and systems [dimensions](http://en.wikipedia.org/wiki/Dimensional_analysis).Analysis is an exploratory activity.

The Analysis Phase is where the project lifecycle begins. The Analysis Phase is where break down of the deliverables in the high-level Project Charter into the more detailed business requirements is done. It’s also the part of the project where identification of the overall direction that the project will take through the creation of the project strategy documents is recognized.

Gathering requirements is the main attraction of the Analysis Phase. The process of gathering requirements is usually more than simply asking the users what they need and writing their answers down. Depending on the complexity of the application, the process for gathering requirements has a clearly defined process of its own. This process consists of a group of repeatable processes that utilize certain techniques to capture, document, communicate, and manage requirements

**3.2 Software Requirement Specification**

**3.2.1 Introduction**

A SRS (**software requirements specification**) – a [requirements specification](http://en.wikipedia.org/wiki/Requirements_specification) for a [software system](http://en.wikipedia.org/wiki/Software_system) – is a complete description of the behavior of a system to be developed. In addition to a description of the [software functions](http://en.wikipedia.org/wiki/Functional_requirements), the SRS also contains [non-functional requirements](http://en.wikipedia.org/wiki/Non-functional_requirements). Software requirements are a sub-field of [software engineering](http://en.wikipedia.org/wiki/Software_engineering) that deals with the elicitation, analysis, specification, and validation of [requirements](http://en.wikipedia.org/wiki/Requirements) for [software](http://en.wikipedia.org/wiki/Software).