# Chapter 2: Analysis

## 2.1 Introduction to analysis

Analysis is process in Software Development Lifecycle that specifies what the system should do. Analysis of any system or software is done to identify its objectives. It ensures all the component of the system works together and efficiently. The expectation system boundaries is defined in this phase and then collecting its fact data, requirements, creating working components and its smaller parts that help for a better understanding. This phase takes detailed study of various operations performed by the system. We use different kind of tools to collect the data, this is known as analysis methodology.

Reasons why analysis in this project:

* Never been applied on this environment.
* It helps to create a requirement specification document.
* It defines whether or not the project will be useful to user or not.
* Analysis pre-defines feasibility of the project.

## 2.2 Analysis Methodology

Developing software involves Software Development Lifecycle (SDLC) process at the very beginning of development. This includes Requirements, Design, Implementation, Verification and Maintenance. There more types of methodologies in software development that helps for better understanding. They evolved with time making development process easier than ever. Spiral development, Software Prototype, Rapid Application Design were evolved with time.

Analysis methodology is tool to collect fact data about the project. Soft approach, Hard approach and Combined approach are few methods for Analysis methods. I chose Soft approach for system analysis of this project.

**Soft approach:**

## 2.3 Feasibility Study

It is about possibility of the project. Study about possible problems is undertaken with resulting solutions. Evaluation is done on the basis of three factors ie; Technical, Social, Political factors. All possible problems are analyzed before the completion of project and solutions are determined if it can be implement. In this project, technical requirement in user perspective ma In this project, technical requirement in user perspective may not be fulfilled.

A project is said technically feasible if it meets the technical requirements. After the calculation of Feasibility study based on those three issues, a final result is produced called feasibility report. Report will have clear statement of problem and all details found out will be listed. Those list help management to agree a top alternative.

I have described feasibility study on below table:

## 2.4 Requirement analysis