# Analysis

Analysis is the vital phase in software development process. It is the process of collecting requirements then analysing them to create proper and required system requirements for the project/software. Requirements comprises of functional and non-functional requirements and are collected from interaction with stakeholders and communication with users through tools like use cases, etc. Analysis also includes feasibility study of project to determine whether project is feasible economically, legally and so on.

Analysis is needed to capture client’s exact wants and needs from software project. It also helps in checking whether provided requirements are feasibly possible or not and if not help to understand what is needed rather than what they want.

PEST Analysis

PEST analysis is the tool which is used to examine markets for particular product in a particular time with regards to multiple factors. It helps an organisation in better decision making and effective business strategies by studying various factors which are political, economic, social and technological which might influence product’s market directly or indirectly.

Factors impacting business environment to be analysed by PEST analysis are categorised into four parts:

1. Political

PEST analysis checks compatibility of business and products with government regulations or any related defined rules regarding tax guidelines, copyright and property law enforcement, social and environment policy, trade regulations, etc and any possible changes regarding them in near future. It helps an organisation determine whether there will be any impact in their business or product or not by political factors and act on it.

1. Economic

In PEST analysis, economic factors like current economy condition, exchange rates, unemployment rate, customer’s disposable income etc are considered. It helps in considering product cost, accessing of demand and expansion of business.

1. Social

With social factor, one can analyse socio-economic environment of business’s market to understand what customer need and want as well gauge potential market size. It includes study of demographics, population growth rate, age distribution, career attitude, etc that influences business environment of organisation.

1. Technological

With the rapid development ongoing in technology, customers are eager to adopt new technologies and this part of SWOT analysis involves study of factors related to technological advancements and its pace. It helps to determine organisation’s own required progress in technology and of its software product’s technology.

# Feasibility Study

Functional Requirements

Functional Requirements are those what system needs to do.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Function ID | Title | Description | Purpose | Dependency |
| F1 | Login |  |  |  |
| F2 | Add Sales Person |  |  |  |
| F3 | Add Products |  |  |  |
| F4 | Products Inventory |  |  |  |
| F5 | Edit/Update Delete Products |  |  |  |
| F6 | Transactions Report |  |  |  |
| F7 | Sales Report |  |  |  |
| F8 | Refund Product |  |  |  |
| F9 | Buy Product |  |  |  |
| F10 | Database |  |  |  |
|  |  |  |  |  |