

# Requirement Analysis

## Feasibility Study

Feasibility Study is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. It is conducted to determine whether the project will, upon completion, fulfil the objectives of the organization in relation to the work, effort, and time invested in it. A feasibility study enables the developer to predict the project's usefulness and potential future. The premise for a feasibility study is the system proposal's viability, which includes the impact on the organization, ability to meet user needs, and effective use of resources. As a result, before a new application is accepted for development, it often undergoes a feasibility assessment.

The document outlines the project's viability and contains a number of factors that were carefully taken into account throughout this project's feasibility study, including its technical, economic, and operational viabilities. It has following characteristics:

### **Economic Feasibility**

The tools that will be used for the system are latest one and thus the cost involved in tools, designing and developing the system will be a good investment. The benefits of using system are not in monetary terms, but it is increased interaction between users and administrators.

### **Technical Feasibility**

Technical feasibility of a project determines whether a project can be developed using the technology on hand. The system is technically feasible as the front-end and back-end required for it is available and already installed.

System is developed by using Angular as front-end and Spring Boot as a back-end. It is technically feasible.

### **Behavioural Feasibility**

People are inherently resistant to change and computer has been known to facilitate changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system. These are various levels of users in order to ensure proper authentication and security of sensitive data.

### **Operational Feasibility**

Operational feasibility covers two aspects. One is technical performance and other is acceptance by users. The system is operationally feasible as it is very interactive and user friendly. It fulfils all the user's requirements.