FEASIBILITY STUDY

Feasibility study is a major step in the System development life cycle. The main Objective of the feasibility study is to test the economical, technical and operational feasibility while developing system. This analysis is done by investigating the existing system in the area under investigation and generating an idea about the new system.

Feasibility study is a test of System proposed regarding its workability, impact on the organization, ability to meet the needs and effective use of resources. Thus, when a new project is proposed, it normally goes through a feasibility study before it is approved for development.

A feasibility study made to see if the project on completion will serve the purpose of the organization for the amount of work, effort and the time that is spend on it. Feasibility study lets the developer foresee the future of the project and usefulness. All the projects are feasible given unlimited resources and infinite time. Unfortunately, the development of the project management system is more likely to be played by a security of resources.

Feasibility and risk analysis are related in many ways. If project risk is great, the feasibility of producing the quality software is reduced.

The existing system faces problems of reachability and communication among the authorities and the users and also it is very time consuming. The main contribution of the Project Development system is that the estimation and planning, scheduling, cost control and budget management, resource allocation, collaboration software, communication, quality management and documentation or administration systems, which are used to deal with the complexity of large projects. This helps to reducing their effort. The system must support features like security and credibility of the users account, up-to-date notifications must be provided. The document provides the feasibility of the project that is being

designed and lists various areas that were considered very carefully during the feasibility study of this project such as:

> ➢ Technical
> ➢ Economic
> ➢ Operational

1 Economic Feasibility

System that can be developed technically and that will be used if installed must still be profitable for the organization. Financial benefits must equal or exceed the costs. Justification for any outlay is that it will increase profit and reduce expenditure.

Project Development System will be a simple platform for users to access services for a huge need. Using this system large number people can solve their problems with free of cost. Project development system only needs a basically configured personal computer. So that the system is economically feasible to the users.

The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.

- The cost of the hardware and software.
- The benefits in the form of reduced costs or fewer costly errors.

The proposed system requires procurement of additional resources such as cloud technologies for ensuring maximum uptime, ease of access, minimum wait and access times, etc... Apart from these requires domains and additional api services. As the Project Development system is intended to be implemented at an IT firm, they could bear all these expenses and the time required for the project is sufficient for the successful completion. Thus, the system is found to be economically viable.

2 Technical Feasibility

Technical feasibility centers on the existing computer system and to what extend it can support the proposed addition. The system, been improved for single organizations there may be some additions that are to be made on the system by the user. The user needs some printed or some other hardware to be added to the system that will raise the technical complexity. Then the user has to check whether the system will support the addition or not. This involves financial considerations to accommodate technical enhancements.

Through the technology may become obsolete after some period of time, due to the fact that newer version of some software supports older versions, the system may still be used. So, there are only minimal constraints involved with this project. The Project Development system has been developed using PHP in front end and MySQL in back end, the project is technically feasible for development. The System used was also of good performance of Processor intel core i5 8th Gen, RAM 8GB and, Hard disk 1TB.

3 Operational Feasibility

Proposed projects are beneficial only if they can be turned into information systems that will meet the operating requirements of the organization. The test of feasibility asks if the system will work when it is developed and installed. Some of the important questions that are useful to test the operational feasibility of a project are given below is there sufficient support for the project from the management? From users? If the present system is well liked and used to the extent that people would not be able to see reasons for a change, there may be a resistance are current methods acceptable to the users? If they are not, users may welcome a change that will bring about a more operational and useful system. Have the users been involved in the planning and development of the project, and

then the changes of resistance can be possibly reduced. Issues that appear to be quite minor at the early stage can grow into major problems after implementation. Project Development System would be implemented on server environment and so is accessible to anyone with an active internet connection. Apart from this operational feasibility will be conducted for finding whether the system is accessible across multiple platforms and devices.

What changes will be made in the system?

The new system will be fully automated and there will be no manual works. So that the Project Development system will be time saving system. The data can be stored securely in Excel sheets. All the valid documents can be stored in pdf or in any other format, so that if any confusion occur in future it can be rectified

What organizational structures are?

The Project Development system is used to control the full working of the IT Company

What new skills will be required?

The Project Development system is fully automated system. All the works are computerized. So that the person using the system needs basic computer knowledge or else they can be given training.