**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, operational, and behavioral 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.

Feasibility study is a test of system proposal according to its workability, impact on the organization, ability to meet user needs, and effective use of resources.The objective of the feasibility study is not to solve the problem but to acquire a sense of its scope. During the study, the problem definition is crystallized and aspects of the problem to be included in the system are determined. All projects are feasible given unlimited resources and infinitetime.

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 proposed system is that the users can reserve the tickets, food and also cancel the reserved tickets. 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 feasibility
* Economic feasibility
* Operational feasibility
* Behavioral Feasibility

The following are its features:

**Technical Feasibility**

The assessment of technical feasibility must be based on the outline of the system requirements in terms of inputs, outputs, files, programs, procedures and. This can be quantified in terms of volumes of data, trends, frequency of updating, etc. Having identified an outline system, the investigator must go on to suggest the type of equipment required, methods of developing the system and methods of running the system.

There are number of technical issues, which are generally raised during the feasibility stage of the investigation. They are as follows

* Does a necessary technology exist to do what is suggested?
* Does the proposed equipment have the capacity to hold the data required to use the new system?
* Can the system be upgraded if developed?
* Are there technical guarantees of accuracy, reliability, ease of access and security?

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 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.

**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.

**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.

Railway Reservation System will be a simple platform for users to access services for their a huge needs. Using this system large number people can solve their problems with free of cost. Railway Reservation 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.

**Behavioral Feasibility**

The proposed system Railway Reservation System is behaviorally feasible. It centers on the reaction of the users, it works to minimize the human errors, take less time, easy interaction with user, bug free. since the system is not so complicated, it is easily understandable by anyone. User training is also very easy. The user also does not need to have any concept of the software used for developing the system.