Feasibility Study

Feasibility is defined as the practical extent to which a project can be performed successfully. To evaluate feasibility, a feasibility study is performed, which determines whether the solution considered to accomplish the requirements is practical and workable in the software. Information such as resource availability, cost estimation for software development, benefits of the software to the organization after it is developed and cost to be incurred on its maintenance are considered during the feasibility study. The results of the feasibility study should be a report that recommends whether or not it is worth carrying on with the requirements engineering and system development process.

An analysis and evaluation of a proposed project to determine if it is technically feasible, is feasible within the estimated cost, and will be profitable. All projects are feasible when given unlimited resources and infinite time. The libarary management system accomplishes all the customer needs. After feasibility study the system fulfill all the requirements of the customer. 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 and Operational feasibilities. The following are its features: -

1.1 Economical Feasibility

It is considered as the final stage of most of the system. It includes a broad range of concerns that includes cost benefit analysis. Economic analysis is the most frequent used method for evaluating the effectiveness of a project. It is procedure to determine the benefits and the saving that are expected from a project and compare with it cost. This project is economically feasible due to certain reasons.

It is cost effective and will maximize the returns. It is cost effective in the sense that has eliminated the paper work completely. The system is also time effective because the calculations are automated which are made at the end of month or as per the user requirement.

1.2 Technical Feasibility

It is the study of resource availability that may affect the ability to achieve an acceptable system. This evaluation determines whether the technology needed for the proposed system is available or not. Here the levels of technology consist of the programming language, the hardware resource, other software tools etc.
Hence it is technically feasible.

Technical issues raised during the investigation are:

• Does the existing technology sufficient for the suggested one?

This project could implemented as the customer can get more solution among the product. And it is not so complicated now a days communication with server.

• Can the system expand if developed?

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

1.3 Operational feasibility

Operational feasibility assesses the extent to which the required software performs a series of steps to solve business problems and user requirements. This feasibility is dependent on human resources (software development team) and involves visualizing whether the software will operate after it is developed and be operative once it is installed. In this system , they provide secure payment and truncation of product.

1.3 Behavioral Feasibility

The proposed system includes the following questions:

Is there sufficient support for the users?

Will the proposed system cause harm?

The project would be beneficial because it satisfies the objectives when developed and installed. All behavioral aspects are considered carefully and conclude that the project is behaviorally feasible.

This is an online project developed for leading Car company Toyota. This project is usefull for the car showroom management team to maintain the customer details, sales details, car details and service details. The Project “Car Showroom Management system” contain the car information and the free servicing details regarding the cars. If any person buy a car that person considered as a permanent customer and the management team can frequently interact with the customers through the software.