

FEASIBILITY STUDY for SECURITY CAB SYSTEM

Feasibility study is 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 spend on it. Feasibility study lets the developer foresee the future of the project and the usefulness. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources. Thus, when a new application is proposed it normally goes through a feasibility study before it is approved for development.

There are some questions and answers that are important in feasibility study of this project.

1. How would be organization scope if this system was not implemented?

If this Security Cab is not implemented then the securities of the organization or a private firm need to enter the details of the vehicles arrival and departure manually. Also it consumes more time and increases the security workload.

2. What are the problems with current processes and how would a new system help alleviate this problem?

The current system does not provide the total count of the vehicle's arrival and departure. The security must perform all the functionalities manually and also it consumes more time. But the proposed system helps to performs whole functionalities automatically.

3. What direct contribution will the system make to the business objectives and requirements?

By using this system it helps to reduce the number of workers and its useful for Organization where the number of vehicles arrived and leaved from there.

4. Does the system require technology that has not previously been used in the organization?

This system includes automatic number plate recognition (ANPR) with Optical Character recognition (OCR) and image processing.

5. What must be supported by the system and what needed to be supported?

This system is a great platform where a security can be easily store the vehicle details automatically. Also the security can detect the entry of vehicles which is not registered within the Security Cab, also the purpose of Visitor within the organisation or the firm.

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:

ECONOMIC FEASIBILITY

The Security Cab system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which affect the development of a new system, is the cost it would require.

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.

Since the Security Cab system is developed as part of project work, there is no manual cost to spend for the proposed system. Also, all the resources are already available, it gives an indication of the system is economically possible for development.

TECHNICAL FEASIBILITY

The system must be evaluated from the technical point of view first. The assessment of this feasibility must be based on an outline design of the system requirement in the terms of input, output, programs and procedures. Having identified an outline system, the investigation must go on to suggest the type of

equipment, required methods for developing the system, running the system once it has been designed.

Technical issues raised during the investigation are:

- Does the existing technology sufficient for the suggested one?
- Can the system expand if developed?

The proposed Security Cab system has more features available than the existing systems like Automatic Number Plate Recognition from camera. This system includes visitors log and the purpose of their visit, time etc.

The system can be expanded if more requirements are available in future.

The system has been developed using HTML as front end, Php as Connectivity, MySQL in back end and Python for image Processing for the website, the project is technically feasible for development.

OPERATIONAL FEASIBILITY

This includes the following questions:

- Is there sufficient support for the users?
- Will the proposed system cause harm?

The solutions suggested by the proposed system such as satisfying the user requirements, time management etc. are acceptable. The users can easily adapt to the proposed system as it is more convenient and user friendly. The Security Cab system uses simple user interfaces for ease of use with the user.