**FEASIBILITY STUDY**

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 work-ability,

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.

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: -

**Economical Feasibility**

The developing 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.

The proposed 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 give

an indication of the system is economically possible for development.The cost of

project, ORCA was divided according to the system used, its development cost and

cost for hosting the project According to all the calculations the project was

developed in a low cost. As it is completely developed using open source software the

only cost was spent for hosting the project which is affordable.

**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 method

developing the system, of 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 project should be developed such that the necessary functions and performance

are achieved within the constraints. The project requires High Resolution Scanning

device and utilizes Cryptographic techniques. 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 HTML,CSS in front

end and PHP server in back end, the project is technically feasible for development.

The System used was also of good performance of Processor Intel i3 core; RAM 4GB

and, Hard disk 1TB

**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. ORCA, GUI is simple so that users can easily use it.

ORCA is simple enough so that no training is needed.