SYSTEM FEASIBILITY

INFORMATION GATHERING

Information Gathering is a very key part of the feasibility analysis process. In order to build a news recommendation system, we gather various information about various approaches to build a news aggregator application and we also gather information about various features that can be added in the application. We discuss with each other in team about application and also observe various aspects of existing applications like Inshorts. etc .After proper information gathering we found out that we can build the web application in python django in which we aggregate various news articles from new websites like Hindustan times , india today by the help of beautiful soup library in python. We also find out that features like sentiment analysis, news recommendation and text summarization can be added.

A feasibility analysis usually involves a thorough assessment of the operational (need), financial and technical aspects of a proposal. Feasibility study is the test of the system proposal made to identify whether the user needs may be satisfied using the current software and hardware technologies, whether the system will be cost effective from a business point of view and whether it can be developed with the given budgetary constraints. A feasibility study should be relatively cheap and done at the earliest possible time. Depending on the study, the decision is made whether to go ahead with a more detailed analysis.

When a new project is proposed, it normally goes through feasibility assessment. Feasibility study is carried out to determine whether the proposed system is possible to develop with available resources and what should be the cost consideration. Facts considered in the feasibility analysis were.

 Technical Feasibility

 Economic Feasibility

 Behavioural Feasibility

**Technical Feasibility**

Technical Feasibility deals with the hardware as well as software requirements. Technology is not a constraint to type system development. We have to find out whether the necessary technology, the proposed equipment have the capacity to hold the data, which is used in the project, should be checked to carry out this technical feasibility. We found out various hardware and software that are required in our project, python and django will be required for back end development of the project and we require html, css and bootstrap, javascript for front end development of the project. We learn about these technologies for building this application.

**Economical Feasibility**

This feasibility study present tangible and intangible benefits from the prefect by comparing the development and operational cost. The technique of cost benefit analysis is often used as a basis for assessing economic feasibility. This system needs some more initial investment than the existing system, but it can be justifiable that it will improve quality of service.

Thus feasibility study should center along the following points:

Improvement resulting over the existing method in terms of accuracy, timeliness.

Cost comparison

Estimate on the life expectancy of the hardware

Overall objective

Our project is economically feasible. It does not require much cost to be involved in the overall process. The overall objectives are in easing out the requirement processes.

**Behavioural/ Operational Feasibility**

This analysis involves how it will work when it is installed and the assessment of political and managerial environment in which it is implemented. People are inherently resistant to change and computers have been known to facilitate change. The new proposed system is very much useful to the useful to the users and there for it will accept broad audience from around the world. By this software we are able to aggregate news from various news websites of different categories and also do text summarization to summarize the news in 60 words .We also add features in it like showing news on the basis of preferred sentiments of the viewer, recommended news, and also display the weather forcasting details.

PLATFORM SPECIFICATION

**HARDWARE DESCRIPTION**

The selection of hardware is very important in the existence and proper working of any software. When selecting hardware, the size and requirements are also important.

**Minimum Requirements:**

Processor:  Pentium IV

RAM : 2GB

Hard Disk Drive : Minimum of 1GB of free space.

The proposed System is developed on:

Processor : Intel Core i5 processor 1,333 MHz.

RAM : 8GB

Hard Disk Drive : 500GB

Monitor : Display Panel (1920 X 1080)

Display Adapter : Intel® UHD Graphics 620

Network Adapter : Microsoft Kernel Debug Network Adapter

**SOFTWARE IMPLIMENTATION TECHNOLOGY**

Operating System : Windows 10

Front- End : CSS ,HTML, Java-Script, Bootstrap

Back-End : Python, Django

News aggregator