FEASIBILITY STUDY

A feasibility study evaluates all relevant factors, including costs, benefits, risks, and resources, to determine the potential success and value of a certain project, service, or idea. It guarantees that the concept or project will be successful.

Technical Feasibility

Technical feasibility evaluates whether a project or idea can be implemented with the tools and resources at hand.

This academic project is doable because the appropriate tools have been chosen, including Django for the backend and Angular for the frontend. Because these technologies are scalable and reliable, they are ideal for creating intricate web applications.

1.Do the Stakeholders have the expertise needed?

Due to the project's academic nature, the student serves as both the developer and the end user. The individual has all the technological tools required to create the web application.

2. Are additional resources needed in the system including infrastructure, skill sets and job-aids?

Yes, even while the frontend and backend frameworks are adequate enough during the project's development phase, additional hosting options—such as Google Cloud, AWS, etc.—become necessary for dependable web hosting once the project moves into its deployment phase.

3. Is the system ready in terms of technology required?

Yes, the system is prepared, set up, and configured using the planned technologies, and it also works well with those technologies.

Economic Feasibility

Economic feasibilityof a project or idea involves looking at it from both a financial and cost-benefit standpoint. By exceeding the startup costs, it aids in determining if the project is financially feasible.

Since the project is a part of the academic curriculum, the emphasis is on developing the abilities of the individual and the necessary project functionality rather than on profit or cost analysis. Based on an analysis of the free tools and technologies utilized for implementation, it may be concluded that the project is economically feasible.

1.Does the needed resources exist?

Yes, all of these resources are easily accessible. A few machine learning modules needed for the project must be created using the models and datasets existing in use.

2. Will the proposed system lead to better use of resources to improve outcomes, when compared with other options?

Yes, the users' results are improved by the suggested system. Personalized suggestions are made based on an individual's talents and abilities, giving it a slight advantage over other available options and employment opportunities.

3. How hard it is to maintain and manage the system?

Given the planned technology and development structure, the system is simpler to manage. However, the automation may result in a little implementation challenge, mostly related to the usage of appropriate data models and NLP.

Operational Feasibility

Operational feasibility assesses how well a system performs in actual operations and how easily it can be integrated with current workflows. With planned technologies like Angular and Django being a good choice to make the development of the complicated web application easier, the system is operationally possible. Compared to other current technologies, Django makes it more easier to add automation and machine learning.

1.Do the existing system procedures support the new service?

Since the combination of a technical assessment system and a job portal is a relatively novel idea, it can be included into an already-existing system. Thus, the new service is supported by the current system.

2. How will key collaborators be involved?

As an individual-led academic project, all processes associated with system development, implementation, testing, and deployment are carried out by the single person. Thus, the contribution of important partners is reduced to the work of a single individual.