FEASIBILITY STUDY

Feasibility study is about assessing all aspects like costs, benefits, risks, resources etc. to figure out whether a particular idea or service or initiative is practical and worth pursuing. It ensures that the idea or initiative yields a successful outcome.

Technical Feasibility

Technical feasibility assesses whether a project or idea can be accomplished using the available technology and resources.

This academic project is technically feasible as right tools are selected such as **Angular** as the frontend and **Django** as the backend respectively. These technologies are robust and scalable, hence very much suitable for developing such a complex web application.

1.Do the Stakeholders have the expertise needed?

As the project being an academic one, the student is the stakeholder, developer, and the user itself. The person is well equipped with the technologies needed to develop the web-application.

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

Yes, although in the development phase of the project, the frontend and backend framework is very much sufficient, when moving to the deployment phase, the requirement of additional hosting options arises like Google Cloud, AWS etc. for reliable web hosting.

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

Yes, the system is ready, setup and configured with the intended technologies and the system is compatible with the technologies as well.

Economic Feasibility

Economic feasibility is determining whether a project or idea can be implemented from a cost benefit perspective or financial perspective. It helps to determine whether the project is financially suitable, out weighing the costs associated with its setup.

Since the project is a part of academic curriculum, the focus is not on the profit, or the cost analysis rather on developing the skills of the individual and needed functionalities of the project. Hence the project is said to be economic feasible analysing the free tools and technologies used for the implementation.

1.Does the needed resources exist?

Yes, the resources which has been mentioned are readily available. Certain ML modules required for the project is to be developed from the existing datasets and models.

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

Yes, the proposed system improves the outcomes of the users. Since, it analyses the skills and ability an individual, providing personalized recommendations it has a slightly more advantage compared with other existing options and job opportunities.

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

The system is easier to maintain taking in account of the intended technologies and framework to develop it. But the automation might cause a slight difficulty in implementation mostly dealing with the implementation of NLP and suitable data models.

Operational Feasibility

Operational feasibility determines whether the system work effectively in real world operations and whether the system can be smoothly integrated with the existing processes. The system is operationally feasible with intended technologies like **Angular** and **Django** being a suitable choice to make the development of the complex web application easier. The implementation of ML and automation is in **Django** much easier compared to other existing technologies.

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

The integration of a job Portal along with a technical assessment system is somewhat a new approach, hence it is possible to be integrated into an existing system. Hence the existing system does support the new service.

2. How will key collaborators be involved?

Since, it is an academic project involving a single individual, the person undertakes all the procedures related to developing, implementing, testing, and deploying the system. Hence the involvement of key collaborators comes down as the effort of a single person.