**FEASIBILITY ANALYSIS**

**Title:** Feasibility report for the computerization of College Admission Predictor.

**Background:** Various students have no idea which college they can be eligible for after their 12th standard due to which many don’t fill the required forms whereas others spend a lot of money for the forms of certain colleges they won’t get selected for. Through this the students can have a rough idea about which college they can get so they can filter out the colleges effectively.

**Method of study:** The analysis procedure comprised of going through the websites of various colleges and JEE rank predictor sites. The following documents and sources were looked up:

* The college’s past student intake.
* The previous cut offs for different branches of different colleges.
* The past trend in JEE ranks.
* The number of students applying every year in the past five years.
* The ranking of the colleges.

**NEED FOR FEASIBILITY STUDY**

The feasibility study is carried out to test whether the proposed system is worth being implemented. Feasibility study is a test of system proposed regarding its work ability, its impact on the organization ability to meet user needs and effective use of resources. It is usually carried out by a small number of people who are familiar with the information system techniques, understand the part of the business or organization that will be involved or effected by the project and are skilled in the system analysis and design process.

The key consideration involve in the feasibility study are:

1. Technical
2. Behavioural
3. Economic

**1.TECHNICAL FEASIBILITY**

Technical feasibility centres on the existing computer system (hardware , software etc ) and to what extent it can support the proposed system addition. For example, if the current system is operating at 70% capacity (arbitrary value), then another application could overload the system or require additional hardware. If the budget is serious constrain then the project is judged not feasible.

The technologies and the environment which are used in this project are

**SOFTWARE**

**Front End**

Language used: HTML, CSS, JavaScript and PHP.

**Back end**

Supporting Software: SQL Server 2005. This is used to storing data in the form of tables. It is easy to use.

**OPERATING SYSTEM:**

Platform: Windows10 . Our system requires window operating system, which is easily available.

**HARDWARE:**

Intel based processor-run computer system, which have keyboard and mouse as input devices. This has been decided for its case of availability and up-gradation.

Ram : 16GB, Storage : 1TB HDD +256 SSD, Graphics : GTX 1050Ti. We require this to sufficiently store the data.

The various registers maintained at the different department have enough information recording, which will help in digitizing the available data.

**2.BEHAVIOURAL FEASIBILITY:**

This project Engineering Admission Predictor System is web based application in which students can register with their personal as well as marks details for prediction the admission in colleges and the administrator can allot the seats for the students. Administrator can add the college details and he batch details. Using this software, the entrance seat allotment became easier and can be implemented using system. The main advantage of the project is the computerization of the entrance seat allotment process. Administrator has the power for the allotment. He can add the allotted seats into a file and the details are saved into the system. The total time for the entrance allotment became lesser and the allotment process became faster.

Since the students face a lot of difficulty in finding a college at the time of the admissions, it will be very easy to implement this project into a working model. It will help the students in making decisions for choosing a right college. The chance of occurrence of error is less since we have a good amount of database easily available and it is going to be very reliable for the colleges as well, as they won’t have to maintain huge chunks of unnecessary applications coming to them. It is very fast , efficient and reliable.

It avoids any kind of data redundancy, only those colleges will be visible to the students in which they can apply. This application is going to avoid any data inconsistency and once people get a hand over it they will know it is actually quite user friendly. The data can be easily accessed by the admin and the students itself. It can also be used by various universities for allotting multiple students in various colleges.

The only requirement would be an active internet connection since it is an online portal and accuracy in data. Wrong or inaccurate data will give inaccurate data suggestions.

**3.ECONOMIC FEASIBILITY:**

The procedure is to determine the benefits and savings that are expected from a candidate system and compare it with the costs. If a benefit outweighs costs, then the decision is made to design and implement the system. Otherwise further alterations are made in the proposed system

1. Manpower cost
2. Hardware and software cost