**Feasibility Study:**

The conduction of a feasibility study plays a very crucial role in the proper development of a software system. It helps us to acknowledge the fact that whether the developing software will be feasible or not. Feasibility study is divided into three categories namely, economic feasibility, technical feasibility, and lastly operational feasibility. By going through these three steps, the management will be much more convinced if the project is worth or that it will be just a waste of time.

For our project, the online application and student management system, we will focus more on the technical and economic feasibility study.

1. **Technical feasibility**

According to our project we can firmly say that it is technically feasible and here is why. First and foremost, we will not have the issue of getting the resources required for the development of the software since almost all of them are already available by the client and are in good conditions.

Below are the hardware and system requirements as well as some additional tools that our system will need.

**Hardware Requirements:**

|  |  |
| --- | --- |
| Processor | Intel P-IV System |
| RAM | 128 MB |
| Hard disk | 20 GB |
| Ethernet Connection | Wireless Adapter (Wi-Fi); 15 mbps |
| Processor Speed | Minimum 250 MHz |

**Software Requirements:**

|  |  |
| --- | --- |
| Operating System | Microsoft Windows / Mac OS/ Linux OS |
| Language | Java/ C++ |
| Database | My SQL |

**Additional tools:**

* HTML
* CSS
* Visual Studio / NetBeans

1. **Economic feasibility**

The economic feasibility relates mainly to the cost involved for the proposed solutions and the potential benefits in terms of tangible and intangible, it can bring to the project. The economic feasibility seems to be very blooming for our system. First, only a reasonable amount of fund is required for its development, since we are using resources which are already available. However, an additional task to be done is a proper environment with a well inspected supervision. This will help to attain maximum usability of the resources. Additionally, after the development of the project, the client will have to have to do proper maintenance of the software and hardware equipment to keep in good condition.

**Intangible benefits the organization will encounter:**

* More timely information
* Better and modern design interface hence increase satisfaction of users
* Much better initiative (going green)
* Much better organizational planning

**One time cost details:**

|  |  |
| --- | --- |
| Development Cost | Rs 110,000 |
| Existing Resources  (Hardware/ Software) | Rs 30,000 |
| User Training | Rs 4,000 |
| **Total-Cost** | **Rs 144,000** |

**Tangible Benefits**

|  |  |
| --- | --- |
| Cost reduction or avoidance | Rs 20,000 |
| Increase speed of activity | Rs 200,000 |
| Improve in management planning | Rs 140,000 |
| **Total-Cost** | **Rs 360,000** |

1. **Operational Feasibility**

Operational feasibility refers to what extend does the proposed system, solves the problems that may arise. Our system is a very modern looking and interactive interface with soothing colors, which as a result will make any system user feel more comfortable and easier to work into. Furthermore, the system helps the user to have a much better user experience. We also provide clear and simple instructions on the system to encourage error-free data entry. Throughout our system we have tried to keep minimum mouse clicks to make it have a more professional pace.