

CHAPTER

1

**INTRODUCTION
&
MOTIVATION**

INTRODUCTION:

E-Gyaan is a project that will help in reducing the strain on the shoulders of the students to carry heavy bags to their institute. They will only have to carry the E-Gyaan tablet that we will be providing. All of their textbooks will be stored in the tablets in a digital format. This will also help our environment as there will be no paperwork that will be done either by the students or by the teachers. This project includes three parts, firstly The Website, this being a major part of our project will include all the features like Reading books online, online notice board, online doubt section and many more. Secondly, this project will also provide a mobile application only for students and parents that will provide options for raising doubts, accessing important notices, having a look at the timetable on the move. Thirdly, when the student comes to the class he will be bound in a client server environment with a Ubuntu server and our E-Gyaan Tablet as a client.

1.1 PROBLEM STATEMENTS:

- **Paperwork:**

The students have to take a lot of efforts and complete their assignments. Also the teachers have to maintain their registers for attendance which can be a pain for the teachers.

- **Stress on students:**

The students have to carry heavy bags to their institutes which can be tiring. They also have to maintain sheets for assignments and journals that can sometimes cause stress.

- **Attendance Proxy:**

The students at times give proxy attendance of their friends which is not acceptable as per rule.

- **Educational system is not connected to technology:**

The education system that is followed these days is still based on the old customs of textbooks and books which is far more behind than the technology that is developing.

- **High study material Cost:**

The students have to purchase textbooks, notebooks or even take xeroxes of the books available in the library whose costs are very high.

- **Environment:**

As the education system is paper based and paper is made out of cutting trees it is not very environment friendly. Lakhs of trees get cut per year to make paper out of them.

1.2 IDEA BEHIND PROJECT :

In today's education system the strain on student's shoulder by carrying heavy books and the stress on students of writing big assignments is very painful. The cost of the books spent per year is very high. So the expenses of the study material is rising. We perceived the idea of this project with the thought of bringing technology into the current education system, reducing stress on the students shoulder of carrying heavy bags daily, completing assignments; by digitizing all textbooks and notebooks and making them focus more on their studies instead of just focusing on completions and not learning. We wanted to give all this to the Indian Educational Institutes at lowest possible cost so we planed to keep this project Free And Open Source. With a dream that even the student who does not have a computer at home must be exposed to technology we planned to give a low cost affordable tablet to all the students that would be their personal computer as well as their study material. With the vision of making India Education even more advance and digitizing the curriculum came the idea of project EGyaan.

1.3 FEATURES OF PROJECT :

- **Portable :** In this project we had aimed to portability so we have provided a E-Gyaan Tablet.
- **Easy To Use :** This project is been made really easy to use so that students of grades can use it easily.
- **Secure :** This project is made highly secure as it is bound to work within a client server environment and steps have been taken to assure security of data.
- **Flexible :** EGyaan is a project made for no specific educational institute, it allows full customization according to the infrastructure of the institute where it is being implemented in, hence, it is a highly flexible product.
- **Centralization :** If this project is implemented in all grades starting from 1st up to PhD level it will result into a much more easy to manage and a centralized education system.