

**Foundation of Advancement for Science and Technology**

**National University of Computer and Emerging Sciences**

Project Proposal

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**Subject**: Programming Fundamentals

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**Project Topic:**  DBMS for Educational Institutes

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**Deadline:** 19th of October, 2021

Introduction:

A Database Management System (DBMS) is a software designed to store, retrieve, define, and manage data in a database and primarily functions as an interface between the end user and the database.

Cause of Project:

According to the [United Nations Office on Drugs and Crime](https://en.wikipedia.org/wiki/United_Nations_Office_on_Drugs_and_Crime), Pakistan has 6.7 million drug users. More than 4 million of these are addicts, amongst the highest number for any country in the world. These addicts promote drug use in educational institutes and give rise to these numbers on a daily basis. Moreover, Pakistan has a crime rate of 3.88%. If there had been such a system which identifies these addicts or criminals, they wouldn’t gain entry to educational institutions. But in reality, many educational institutes do not equip such systems due to many reasons.

Project Goals:

Our goal is to design such a DBMS, for the management staff around Pakistan, which ensures recognition of such criminals in each and every educational institutions with the help of their criminal records (if any) to guarantee the safety of the youth and keep track of the students’ records. This can, in return, relieve the stress of parents that their children are in a safe environment.

Main Features:

Our Database Management System will have the following features:

* A login system for staff members.
* Displaying status and details of students by entering credentials.
* Displaying details of crime by the specific student.
* Deletion, modification, and listing of records.
* Generating reports (and much more).

Final Results:

In the end, our DBMS will have the following end results:

* It will be an easy-to-use DBMS which will help management staff unfamiliar with IT to keep records.
* It will be accessible to each and every educational institute.
* A secure DBMS which will ensure that none can access the system except the staff members.

Research and References:

* <https://www.macrotrends.net/countries/PAK/pakistan/crime-rate-statistics>
* <https://en.wikipedia.org/wiki/Drug_addiction_in_Pakistan>
* <https://www.bmc.com/blogs/dbms-database-management-systems/>
* <https://www.astera.com/type/blog/database-management-software/>
* <https://tribune.com.pk/story/2036831/lack-new-technology-turns-national-economy-obsolete>

Thank You!