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As part of the Course Database and Management Systems

Term: Aug – Jan 2018

CERTIFICATE

We hereby declare that the work which is being presented in the BE Mini Project entitled "RIT Placement Database", in partial fulfilment of the requirements for the award of the Bachelor of Engineering in Computer Science & Engineering and submitted to the Department of Computer Science & Engineering of MS Ramaiah Institute of Technology an authentic record of our own work carried out during a period from August 2018 to December 2018(5th semester) under the supervision of Mrs.Darshana Naik, Assistant Professor CSE Department.

Signature of Students

Lakshya Sharma Mohammed Annan Mridul Tiwary Nirvana Dogra

This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

Signature of Supervisor

Date:

Name and Designation:

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(Assistant Professor,

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TABLE OF CONTENTS

1.	Ackno	owledgement	4
2.	Abstra	act	5
3.	Introd	uction	6
4.	Preser	nt Work	7
	4.1	ER Diagram	7
	4.2	Relation Schema with PK and FK	8
	4.3	Technologies Used	9
	4.4	Queries	10
	4.5	Modules	11
5.	Result	ts and Discussion	12
6.	Concl	usion	16
7.	Refere	ences	17

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Abstract

This project intends to simplify the current process of storing and managing data in the sports department of Ramaiah Institute of Technology (RIT). The project uses SQL in order to manage data in a more efficient and orderly way. With our approach, the end user (naive users) can enter the data as defined by the schema, mentioned later in the section. The application gives the user an innate ability to retrieve the data value in the desired format. Even the process of sharing and tracking of student's data becomes much easier, allowing the user to send the data to the respective department HOD's.

The use of SQL allows us to firstly, enforce integrity constraint and in turn, necessitate data uniformity. Secondly, gives us the freedom to link with web by storing to a remote server like (Apache, Oracle, and Nginx) hence future proofing the project. Thirdly, helps us vastly simply the data manipulation process for the users, provides security, multiple views of data and makes data retrieval fast and efficient.

INTRODUCTION

Overview

This project has been developed keeping in mind the intrinsic complexities that arise due to sharing of data between different departments, years and section. PHP is used for the backend development because of its easy semantics, compatibility and versatility. Data security and reliability is also considered while developing the project. Basic HTML + CSS has been used for the front end development.

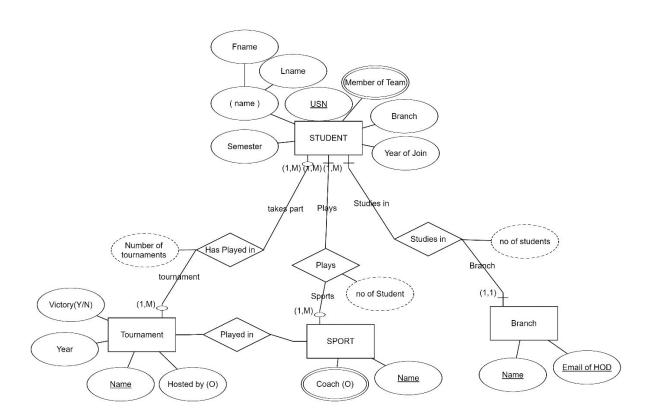
Objective

The objective of this project is to develop a reliable and efficient website which can be used by the Sports Department of RIT to store, edit and view the data stored in their database. The pre-existing data of the students are automatically imported from the CSV file, while future entries are made through the interactive website provided

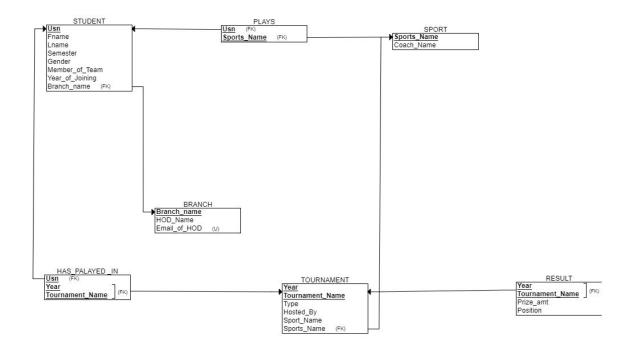
ER Diagram of the sports department Database

The following ER diagram has four entities namely "STUDENT", "BRANCH", "SPORTS", "TOURNAMENT".

MSRIT SPORTS DEPARTMENT



Schema of the sports department Database



Technologies Used

Languages:

- 1. HTML
- 2. CSS
- 3. PHP
- 4. MySQL

IDE and Tools:

- 1. Visual Studio
- 2. Visual Studio Code
- 3. XAMPP

Queries

Given below is the schema of the database that shall be initialized. The values that are followed by "**NOT NULL**" should necessarily have a value or in another word should not hold the value NULL. The data has only one primary key i.e. is the USN of the student.

DATA VARIABLE NAME

DATA TYPE

LASTNAME VARCHAR(50) NOT NULL FIRSTNAME VARCHAR(50) NOT NULL GENDER CHAR(1)

USNVARCHAR(10)NOT NULLBRANCHVARCHAR(3)NOT NULLSPORTSVARCHAR(50)NOT NULL

TOURNAMENT VARCHAR(50)

DATESTARTDATEDATEENDDATEPOSITIONINTSEMESTERINT

PRIMARY KEY (USN)

Expected Table View 1:

Name	Gender	USN	Semester	Branch	Sport	Tournament	Date	Positio n

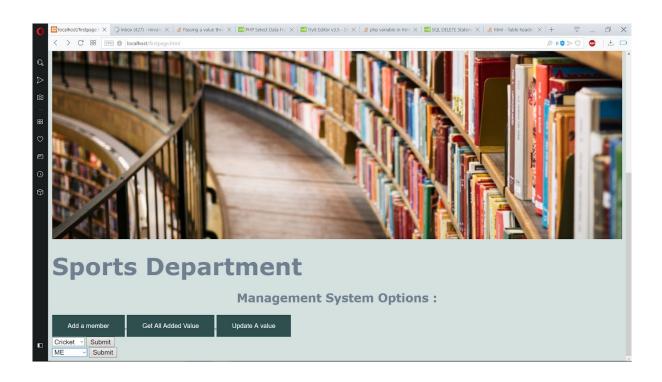
Expected Table View 2:

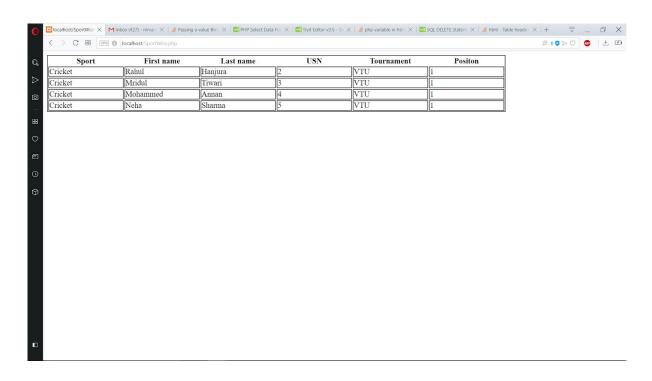
Branch	Name	USN	Semester

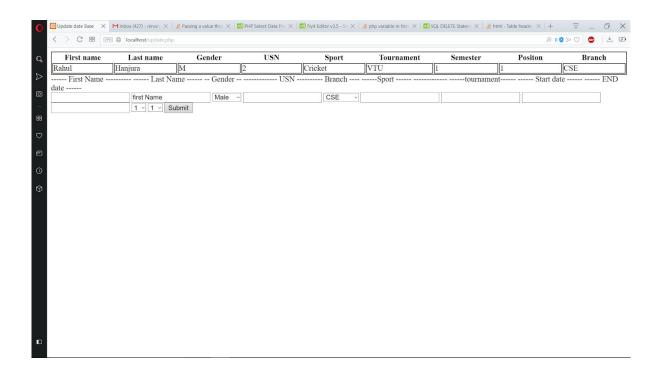
Expected Table View 3:

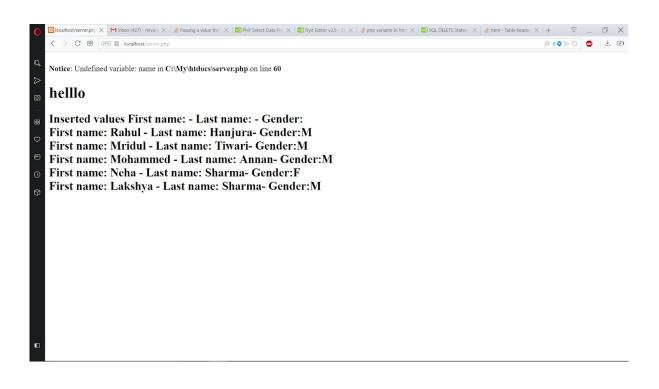
Sport	Name	USN	Tournamen t	Date	Position

Results and Discussion:









Conclusion

This project implements a computerized database system which keeps and manages records. It also reduces drudgery, saves time, secures data and avoids data manipulation, facilitates powerful searching and generates reports. This project intends to simplify the current process of storing and managing data in the sports department of Ramaiah Institute of Technology (RIT). The application gives the user an innate ability to retrieve the data value in the desired format. Even the process of sharing and tracking of student's data becomes much easier, allowing the user to send the data to the respective department HOD's.

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