**RV College of Engineering®, Bengaluru – 59**

**Department of Computer Science and Engineering**

**Database Design Laboratory (18CS53)**

**Synopsis**

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| **TITLE: Student Achievement Web App** | | |
| **TEAM** | 1RV18CS142 | Sai Keerthana |
| 1RV18CS143 | Sakshi Kamal |

**1.** **Introduction**

Maintaining the records of each Student’s achievements in an organization can be cumbersome, due to the divisions based on Departments, Semesters, Sections, Batches, etc. It is difficult for teachers to search and obtain student records as well.

Therefore, we propose to create a web application where every Student can save his/her achievements i.e. certifications, projects, internships, etc. at a single place. Teachers will have access to these records as well.

**2.** **Existing System**

The existing system (Quicklrn) is for storing only the academic records of the students. LinkedIn, also is extremely versatile and not student centric. There is no way to store and access the records for student Achievements only.

**3.** **Proposed System**

The proposed system has features of storing, retrieving, updating and deleting achievement records of students. The teachers can access all the records and make modifications if required. It is essentially a system for students to view and track their achievements and for any employers as well to view their potential employee’s achievements.

In the existing system, the records are only maintained by teachers which often results in discrepancies. More importantly, there is no way to store and access the records for student achievements.

**4.** **Relational Database Structure**

The database will have 3 entity types for Relational database. These are Student, Teacher and Administrator.

The basic attributes of of these entities will be stored in Relational database, with the functionality of :

**Student**- can add/update, search and delete events associated with him/her and generate report

**Teacher**- can add/update, search events and generate report

**Admin**- can add/update/delete accounts, add/search/delete events and generate reports.

**5.** **RDBMS AND NoSQL Integration**

Each event/achievement is represented by a NoSQL database. Each event may or may not have similar attributes, for example, an achievement can be a certification or a project, which have different properties.

**6.** **Societal Concern**

In the status quo, there isn’t a direct bridge between the students and the employers. Websites like linkedin exist but there isn’t a website from college that caters to this. And we believe that it is essential for any college to have a transparent website about all of its students achievements and interests for making that process of hiring much more transparent and efficient.