

## Implementation Of Multi Language Compiler For College Using Smart Lab System

N.Nandhini<sup>a</sup> M.Prassanna<sup>a</sup> D.Tamilarasi<sup>a</sup> Varthini<sup>a</sup> S.Sadesh<sup>b</sup>

<sup>a</sup> Student, Department of CSE, Velalar College of Engineering and Technology, Erode, Tamilnadu, India

<sup>b</sup> Assistant Professor, Department of CSE, Velalar College of Engineering and Technology, Erode, Tamilnadu, India

### \*Corresponding Author

S.Sadesh

**ABSTRACT:** The aim of this project is to increase the speed of code compiling process and to reduce the software installation on all the system. For this we use online compiler that has been installed on server. Since the compiler runs on the sever it reduces the work load on the client system and produces quicker output through software installed on the server. In this website admin adds the staff and student details. It includes information such as is, name, gender, department, email id and password. Only after the registration staff can upload the practical questions for each language. In addition in this website staff can uploads the assignment questions to students. Student can enter in to this website by using the given username and password. They can view the practical questions and assignment which is uploaded by their staffs. Therefore students can attend the practical test for multiple languages from this website itself. In addition they can view the result through this website. This project contains following compilers C#, Java, HTML, CSS, SQL, Java Script. This website contains feature such as compile and run process for each language. Therefore student can write the program for corresponding questions and run the program from this website itself. In addition in this website staff can maintain the attendance details for each student without put effort. If the user attends the exam then it will automatically update the attendance. Thus the website reduces the manual work and improves user satisfaction.

## 1 Introduction

The main motive of this project is to increase the speed of code compiling process and to reduce the software installation on all the system. For this we use online compiler that has been installed on server. Since the compiler runs on the sever it reduces the work load on the client system and produces quicker output through software installed on the server. In this website admin adds the staff and student details. Only after the registration staff can upload the practical questions for each language. In addition in this website staff can uploads the assignment questions to students. Student can enter in to this website by using the given username and password.

Therefore students can attend the practical test for multiple languages from this website itself. In addition they can view the result through this website. This website contains feature such as compile and run process for each language. Therefore student can write the program for corresponding questions and run the program from this website itself. In addition in this website staff can maintain the attendance details for each student without put effort. Thus the website reduces the manual work and improves user satisfaction.

## 2.Module Description

## **Admin**

### **Add department**

In this form the admin adds the department details to the application which includes the information such as the department id, department name, Students Strength. These details are saved into the department table.

### **Add Staff**

In this form the admin adds the staff details to the application which includes the information such as the staff id, staff name, gender, and department, Contact no and email Id. These details are saved into the database with the help of SQL Server

### **View Department**

Admin views the department details which include the information such as the department id, department name, department strength. Those details are retrieving from the student table and viewed on datagridview control.

### **View Staff**

In this form the admin views the staff details which include the information such as the staff id, staff name, gender, department, Contact no and email Id. Those details are retrieving from the student table and viewed on datagridview control.

### **View Student**

In this module admin can view the details about the student such as register number of the student, name of the student, gender of the student, Department of the student, Current year, email Id of the student, Contact number of the student and password of the student.

### **View Feedback**

This module can view the details about the feedback such as feedback Id, register number of the student, Date of entry and feedback details can be viewed.

## **Staff**

### **Add student**

In this module staff can add the details about the student such as register number of the student, name of the student, gender of the student, Department of the student, Current year, email Id of

the student, and contact number of the student and password of the student.

### **Add Practical**

This module contains the details about the practical such as Identity number of the practical, Name of the lab, session name of the lab (Forenoon (or) Afternoon), questions of the lab, For which year and the name of the compiler can be added.

### **Add Assignment**

In this module staff can add the details about the assignment such as Identity number of the assignment, Identity number of the staff, Assignment title, date, deadline of the assignment and for which year of the assignment.

### **View Student**

In this module staff can add the details about the student such as register number of the student, name of the student, gender of the student, Department of the student, Current year, email Id of the student, contact number of the student and password of the student.

### **View Attendance**

In this module staff can view the details about the attendance such as Identity number of the attendance, register number of the student, name of the student and date of lab.

### **View Practical**

This module contains the details about the practical such as Identity number of the practical; Name of the lab, session name of the lab (Forenoon (or) Afternoon), questions of the lab, For which year and the name of the compiler can be viewed.

### **View Assignment**

In this module staff can view the details about the assignment such as Identity number of the assignment, Identity number of the staff, Assignment title, date, deadline of the assignment and for which year of the assignment can be viewed.

### **View Uploads**

In this module staff can view the details about the uploads of student's assignments. This module contains only the students uploads assignments.

### **View Lab Mark**

This module can view the details about the lab marks of the student such as Identity number of the student, Identity number of the practical, register

number of the student, name of the student, marks for that particular lab and status of the mark can be viewed.

**Student**

**Attend practical**

In this module student can attend the practical's in C, C#, JAVASCRIPT, SQL, HTML and CSS. These details can be stored in the practical table.

**Upload assignment**

**Module**

In this module staff can view the details about the uploads of student's assignments. This module contains only the students uploads assignments.

**Perform Program**

In this module student can perform their lab programs such as C, C#, JAVASCRIPT, SQL, HTML and CSS. The above type of programs is performed by the student in this module.

**Existing System**

In existing system the process involved in practical test is maintained manually. Staffs need to put more effort for practical exam arrangements. In addition staff needs to take attendance manually for each student. In existing system check the program and updated the result by staff is done manually. It takes more time and effort. So there is a need for proposed system to overcome the drawbacks of existing system.

Therefore staff can view the students result whenever it's necessary.

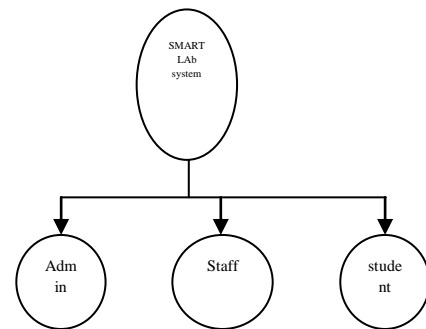
**Scope**

At present, the application works for local area network only. In future, it can be applied to Internet also. In future this website send mark details as SMS to students .

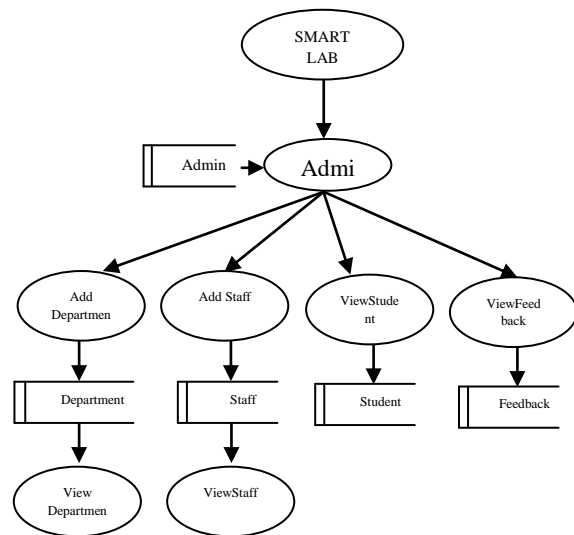
**Proposed System**

In proposed system the process involved in practical test can be maintained in website. In this website staff can upload the practical questions for each language. It includes language such as C#, Java, HTML, JS and CSS. Therefore students can attend the test and view the test result through online. In addition the assignment work given by staff also maintained in this website. Students can view the assignment work and attend the test through online.

**Level 1**



**Level 2**



crystal can be used as a potential candidate for photonic, electro-optic and SHG applications.

**Conclusion**

It is believed that almost all the system objectives

that have been planned at the commencement of the software development have been net with and the implementation process of the project is completed. It is intended for both system administrators and general users to manage the records. It simply gets the attendance and mark entries and calculates each and every output. The proposed system focused on the student and staff maintenance. It acts as compiler for multiple languages. Thus the website compiles the languages C, C#, JAVASCRIPT, HTML, CSS and SQL in this project.

## References

- [1] Alistair Mc Monnies, "**Object-oriented programming in VisualBasic. NET**", Pearson Education, and ISBN: 81-297-0649-0, First Indian Reprint 2004.
- [2] Jittery R. Shapiro, "**The Complete Reference ASP .NET**" Edition 2002, Tata McGraw-Hill, Publishing Company Limited, New Delhi.
- [3] Francesco Balena, "**Programming Microsoft ASP .NET 2008: The Language**", Microsoft Press.
- [4] . David I. Schneider, "**Introduction to Programming with Visual Basic .Net 2008**", Prentice Hall.