

ACE-connect: A dynamic web application for Student Profile Maintenance

Vasanthakumar N¹, Pavithran K V², Sivanantham S³, Karthikeyan H⁴

¹(Department of Information Technology, Adhiyamaan College of Engineering, India)

²(Department of Information Technology, Adhiyamaan College of Engineering, India)

³(Asst. Professor, Department of Information Technology, Adhiyamaan College of Engineering, India)

⁴(Asst. Professor, Department of Information Technology, Adhiyamaan College of Engineering, India)

Abstract: The main objective of the paper is about a dynamic web application to connect all the administration departments like the Department office, Attendance Section, Placement office, Controller of Examination, etc., of the college. All the administration activities in the college are interdependent. Administration works are maintained manually. They need to be automated and centralized as information from one department will be needed by other departments. The benefit of this project is to reduce the work load of the Staffs by automating the manual works. This system would be very effective rather than direct manual methods.

Keywords: ACE(Adhiyamaan college of engineering), Dynamic web, HTML5, CSS3, PHP.

1. INTRODUCTION

“ACE-connect” is a dynamic web application developed for automation of existing manual works and also easy and fast retrieval of data when required. The main objective is to perform consolidation of exam results. All the information can be printed in excel or pdf format. ACE-connect will reduce huge paper work. This software gives an overview of all the information of a student and will be also a great help to the faculties for managing and reducing their time.

2. EXISTING SYSTEM

Generally in the college all the student details and information are maintained manually in Excel or Word documents. Maintenance of student profile is also manual. The communication between the college administration departments is manual and time consuming. The major drawback of the existing procedure is time consuming and huge paper work is required.

3. PROPOSED SYSTEM

All the student details and information will be maintained centralized. For security issues separate login will be provided for each administrator like Principal, HOD, faculties, etc. Maintenance of student's internal exam performance will be automated. Student profile will be automated. Clearance of department no-dues will be automated. Communication between the administration departments will be automated.

4. FEATURES OF THE PROPOSED SYSTEM

- Automation of existing manual works (ex: student profile).
- Easy and fast retrieval of data when required (ex: unit test results).
- Consolidation of exam results (ex: failure list, topper list, pass percentage)
- All the information can be printed in excel or pdf format.
- Students can easily check their marks of previous semesters.
- Reduces huge paper work.
- The proposed system will save significant amount of time and effort.

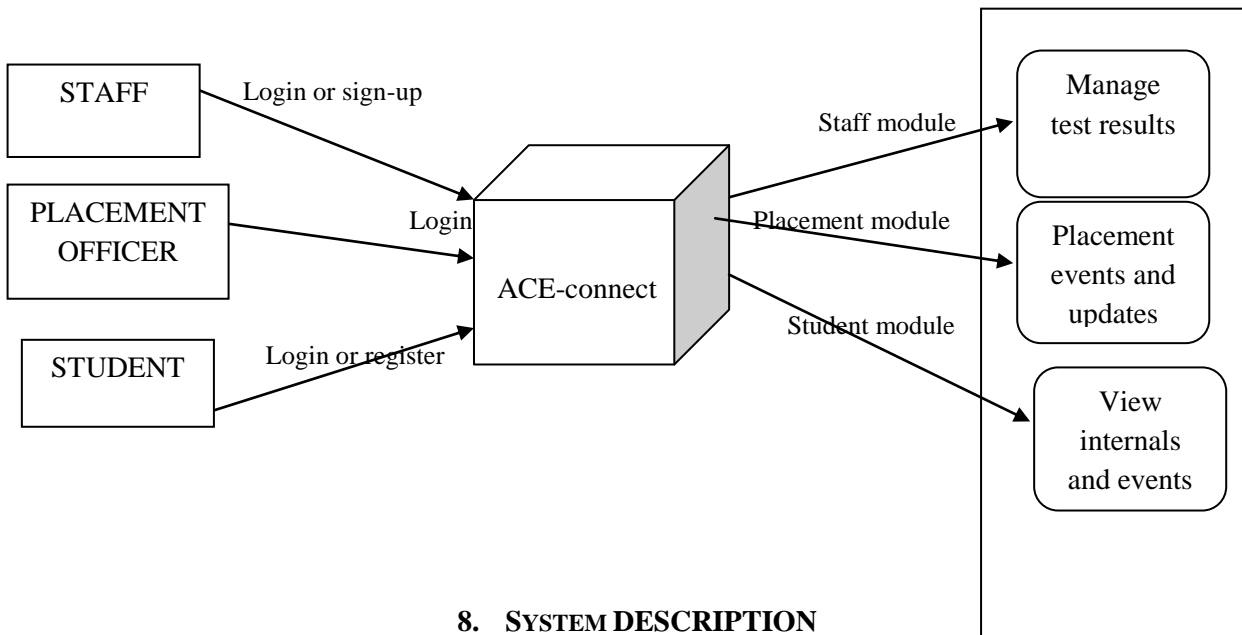
5. FEASIBILITY STUDY

- “ACE-connect” is technically feasible since all the software requirements are open sources with minimal hardware requirements.
- “ACE-connect” a dynamic web application is economically feasible since it has been developed using open source languages like HTML5, CSS3, PHP, etc [1][2][3][4].
- “ACE-connect” deals with confidential data of the college, so legal permission has been obtained from the Institute.

6. SYSTEM OVERVIEW

All the student details and information will be maintained centralized. For security issues separate login will be provided for each administrator like Principal, HOD, Faculties, etc. Once the file has been protected then access to the file will not be provided to any other users. Maintenance of student's internal exam performance will be automated. Student profile will be automated. Clearance of department no-dues will be automated. Communication between the administration departments will be automated. Administration works are automated and centralized as, information from one department will be needed by other departments.

7. SYSTEM ARCHITECTURE



8. SYSTEM DESCRIPTION

8.1 Facuties

- A staff can register his details and log into the application.
- Staff can upload exam results and consolidate the results in .csv format.
- Student profile can be updated.
- Study materials can be uploaded.

8.2 Placement

- Placement events will be updated.
- Placement officer can view the students details based on placement requirements.
- Old events will be deleted automatically according to its validity.

8.3 Student

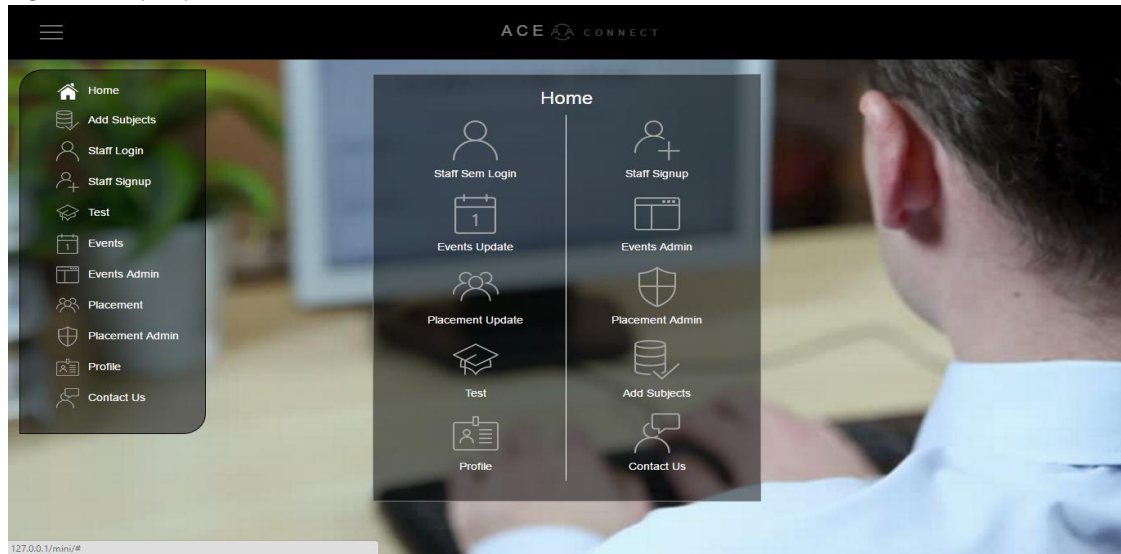
- Students can register their details into the student profile.
- Students can only view their internal marks.
- Study materials can be downloaded.

8.4 e-Notice Board

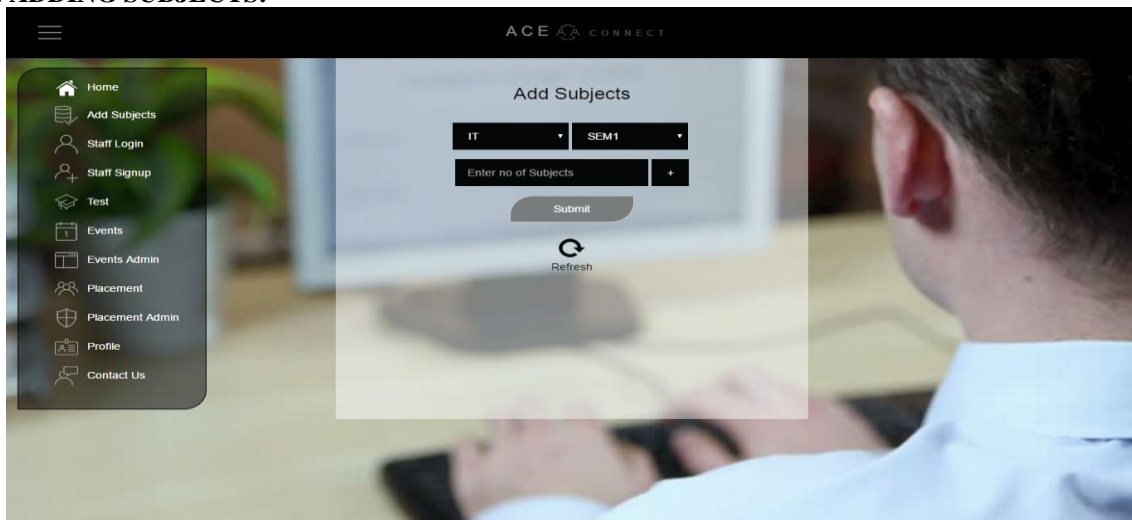
- Events and announcements can be uploaded department wise instead of maintaining manually.
- All the announcements will be mailed to the students or students can view it through our application also.
- Events and announcements can be filtered department wise and viewed.(ex: announcement by IT department only)
- Announcements will be deleted automatically when it's validity expires.

9. SCREEN SHOTS

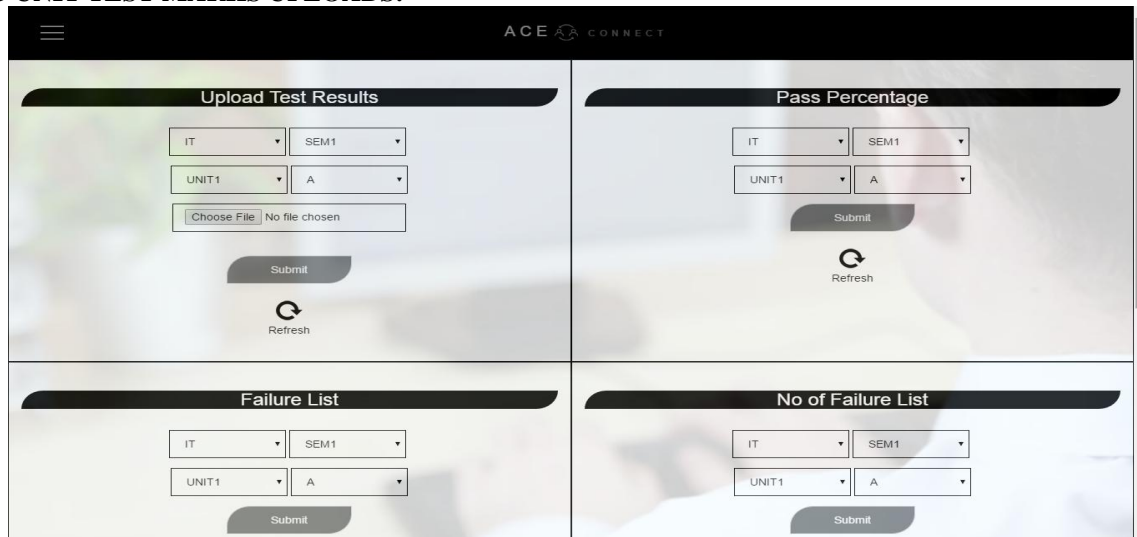
9.1 HOME PANEL:



9.2 ADDING SUBJECTS:



9.3 UNIT TEST MARKS UPLOADS:



9.4 UNIT TEST ANALYSIS:

Subject Code	Subject Name	Percentage
411PQT01	PROBABILITY & QUEUIN	91%
411ITT02	MICROPROCESSOR & MIC	48%
411CIT03	OPERATING SYSTEM	70%
411CIT04	DATABASE & MANAGEMEN	30%
411ITT05	COMPUTER ARCHITECTUR	61%
411ITT06	SOFTWARE ENGINEERING	45%

9.5 FAILURE LISTS:

Reg_no	Name
AC14UIT004	Varun kumar
AC14UIT032	
AC14UIT054	
AC14UIT056	
AC14UIT061	
AC14UIT065	

Reg_no	Name
AC14UIT003	
AC14UIT009	
AC14UIT012	
AC14UIT016	
AC14UIT018	
AC14UIT020	
AC14UIT027	
AC14UIT044	

Reg_no	Name
AC14UIT019	
AC14UIT022	
AC14UIT023	
AC14UIT026	
AC14UIT028	

9.6 SEMESTER RESULT ANALYSIS:

ACE Connect Logout

SEM RESULTS UPLOAD

Regular Result

IT
B
SEM1
2013-17
Choose File No file chosen
Upload

Arrear Result

IT
B
SEM1
2013-17
Choose File No file chosen
Upload

Designed & Developed By Vasanth(8608951452)

9.7 ARREAR ANALYSIS:

ACE Connect
Logout

Arrear List Consolidation

2013-17

Analysis

S.No	Register No	Name	SEM-I	SEM-II	SEM-III	SEM-IV	SEM-V	SEM-VI	SEM-VII	SEM-VIII
1	2601131IT101	ABINAYA.S	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
2	2601131IT102	AISHWARYA.M	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
3	2601131IT103	AISHWARYA.R	Nii	Nii	Nii	411CIT03	Nii	Nii	Nii	Nii
4	2601131IT104	ANUSHA.R	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
5	2601131IT105	APPARNA.L	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
6	2601131IT106	ASHOK RAJ.S	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
7	2601131IT107	BENIT PRECILLA JOY.M	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
8	2601131IT108	BHARATH KUMAR.N	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
9	2601131IT109	BHUVANESHWARAN.R	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
10	2601131IT110	BIRLAKARAN.S	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
11	2601131IT111	CHAITRA.M	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
12	2601131IT112	DEEPA.T	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
13	2601131IT113	DEVALA	Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii
127.0.0.1/aceconnect/main/#			Nii	Nii	Nii	Nii	Nii	Nii	Nii	Nii

10. CONCLUSION

The “ACE-connect” has been developed to solve the various problems which institute faces when it is working manually. At the same time this software meets the objective to maintain database for future interest. All the information flows and processes of the system were represented in the form of flow diagrams. By analyzing the flow diagrams, the database was designed with the consultation of the user of the software. The tables were normalized to reduce redundancy all the data are stored in the database in the form of 2-D relational tables [5] [6] [7] [8]. To perform operations on this database, different programs have been designed and developed. To efficiently carry out the functionality of “ACE-connect” a number of user friendly forms and reports have been developed. All these forms and reports are linked and invoked by the main form. The software has been developed keeping in mind the convenience of users. It is developed in such a way that any user without any detailed knowledge of the system can handle with little training. The user interacts with the software through the messages displayed at various steps. It was a great experience developing this system and we learnt a lot while developing this system.

REFERENCES

- [1] Deitel and Deitel, *Goldberg, Internet and World Wide Web -How to Program* (Pearson Education Asia, 2001).
- [2] Jeffrey C.Jackson, *Web Technologies -A Computer Science Perspective* (Pearson Education, 2006).
- [3] Eric Newcomer, *Understanding Web Services: XML, WSDL, SOAP and UDD* (Addison-Wesley, 2002).
- [4] Robert.W. Sebesta, *Programming the World Wide Web* (Fourth Edition, Pearson Education, 2007).
- [5] Marty Hall and Larry Brown, *Core Web Programming* (Second Edition, Volume I and II, Pearson Education, 2001).
- [6] Bates, *Developing Web Applications* (Wiley, 2006).
- [7] Phillip Hanna, *JSP 2.0 -The Complete Reference* (McGraw- Hill, 2003).
- [8] Mathew Eernisse, *Build Your Own AJAX Web Applications* (Site Point, 2006).