



E – CAMPUS

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ABSTRACT

E-Campus is an efficient portal which allows the faculty to share the information to the students and parents. The system going to be developed can be used to keep information of the institution, department details, student information and generate a report based on the information of the above. The generated report is ready to submit format for the professional bodies like NBA (National Board Accreditation), AICTE and MHRD. This lead to the next level of the upcoming digital world which helps to maintains the student details in a digital way. The system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. This minimizes use of logbooks, bundles of progress cards and papers which need to be maintained manually. Student registration form is designed for registering the new student's details and course details. The student fee form is used to enter the student's fee details. The student marks form is designed for submitting the semester or exam marks of the students for a particular course or an individual student. The student id form is used to create the identity number for each student for different course. The employee details form is designed for entering the staff details and other relevant details. The employee Id used to create the identity number for each student for different course. The salary form is used to derive the salary for employees. The course details form is designed for entering the different course available in the campus and other relevant details.

Key words: E Campus, Online form filling, Login Pages, College Database.

1. INTRODUCTION

E-Campus is a very efficient data and report generation portal. This system mainly concentrates on managing staff details, student details, student marks in a college or university. Our system provides information to be in ready to submit format for the professional bodies. E-campus allows the staff to upload cat mark details, home assignment, class assignment and attendance. It often happens when staffs send any updates regarding the college to the students. This information can be done by web portal. The proposed system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. Moreover, the graphical

user interface is provided in the proposed system, which provides user to deal with the system very easily. Mark reports can be easily generated in the proposed system so the faculty E-Campus portal is use to generate a more accurate and efficient automated information system. This particular portal mainly concentrates on managing student attendance system, keeps track of the internal and other assessment scores through an electronic grade book and managing many other student-related data needs in a college. Our system provides identification and verification functions through username and password.

2. SYSTEM STUDY

2.1. Existing System

The existing software like college information system and student information system does not supports the data management system as per the requirements of professional governing boardie's such as NBA, AICTE, MHRD or government agencies. Also it does not support data and report generation. The existing system does not fulfil the requirements that are actually needed by a technical institution also the existing systems increase the cost of maintenance. The student and staff related information are maintained using logbooks, bundles of progress cards and papers.

2.2. Draw Backs

The existing information systems in the colleges are not user friendly because the retrieval of data is very slow and data is not maintained efficiently. They require more calculations to generate the report since it is generated at the end of the session. All calculations to generate report are done manually so there is greater chance of errors. Existing system requires lot of paper work. Everything is done manually so we cannot generate report in the middle of the session or as per the requirement because it is very time consuming loss of even a single register/record led to difficult situation because all the papers are needed to generate the reports.

3. PROPOSED SYSTEM

Due to the drawbacks in the existing system we have proposed a new E-campus portal ` their login.

- Then reduce the time of data through a upload feature which uses the excel file given by the each department. Then the excel data is upload into database of the system. This feature helps in the data entry like student marks, student details registration and staff details registration.
- It also reduces time for calculation since it automatically calculates the internal mark of the student according to the calculation algorithm of the college whenever the data is uploaded to the database.
- It also let the parents to know the academic performance and other details of their son/daughter using the parent/student login.

3.1. System Design

System design is a process of planning a new system to complement or replace the old system. The purpose of the design phase is the first step in moving from the problem domain to the solution domain. The design of the system is the critical aspect that affects quality of the software. System design is also called top-level design. The design phase translates the logical aspects to the system into physical aspects of the system.

3.2. Input Design

Input design is one of the most important phases of the system design. Input design is the process where the input received in the system are planned and designed, so as to get necessary information from the user, eliminating the information that is required. The aim of the input design is to ensure that the maximum possible levels of accuracy and also ensures that the input is accessible the understood by the user.

The input design is the part of overall system design, which requires very careful attention. If the data going into the system is incorrect the processing and output will magnify the errors. The objectives considered during input design are,

- Nature of input processing.
- Flexibility and thoroughness of validation rules.
- Handling of properties within the input documents.
- Screen design to ensure accuracy and efficiency of the input relationship with files.
- Careful design of the input also involves attention to error handling, controls, batching and validation procedures.

Input the design features can ensure the reliability of the system and procedure result from accurate data or they can result in the production of erroneous information. The input design of system includes the following.

4. FLOW DIAGRAM

4.1. ER-Diagram

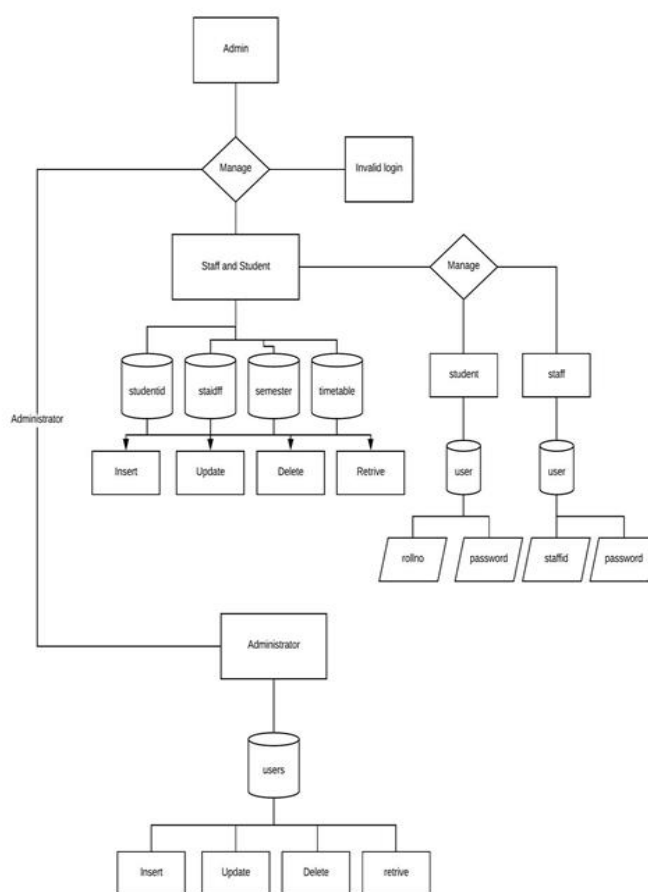


Figure 1 ER-DIAGRAM

5. SYSTEM DEVELOPMENT

5.1. List of Modules

There are 3 main modules.

- Admin
- Faculty
- Student

Admin

Admin module is the main module which has full privilege of the web site. It used for student and staff registration, updating timetable, updating fees and subjects.



Figure 2 Admin

Student

Student module allows the student to view their details, timetable, mark and fees.



Figure 3 Student login form

Faculty module allows the faculty to view timetable specific to each, has privilege to view student details and upload internal marks for the student



Figure 4 Staff Login form

They are 3 main modules contain 6 sub modules

- Student Registration Form
- Faculty Registration Form
- Student Fee Form
- Student Marks Form
- Time Table Form

Student registration form

- The Student Registration form is designed for registering the new student's details and course details.
- The Student id form is used to create the identity number for each student for different course.

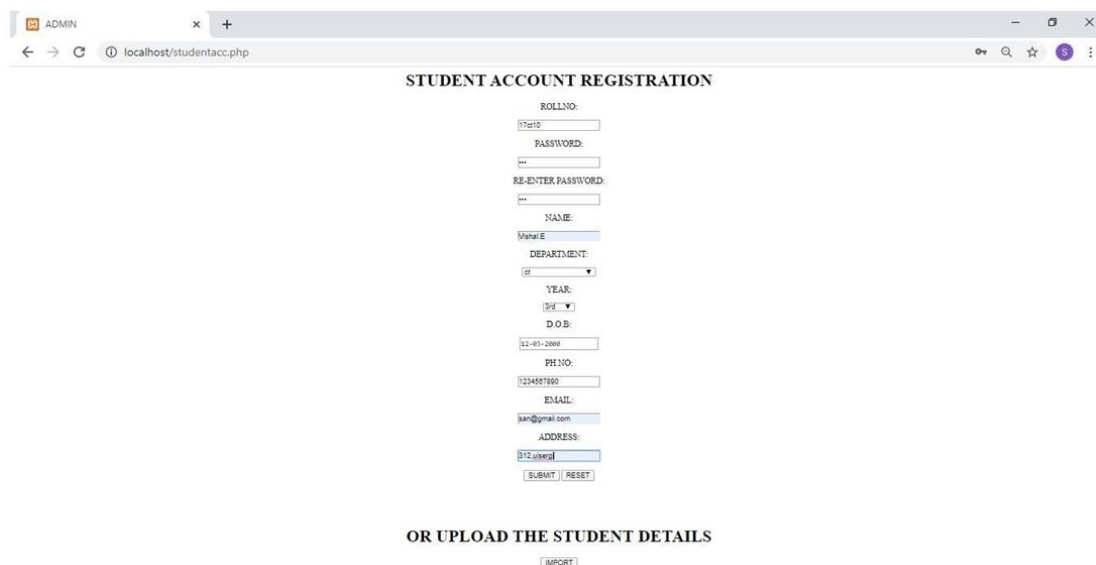


Figure 5 Student Account Registration

Faculty registration form

- The faculty details form is designed for entering the staff details and other relevant details.
- The faculty id used to create the identity number for each faculty for various departments.

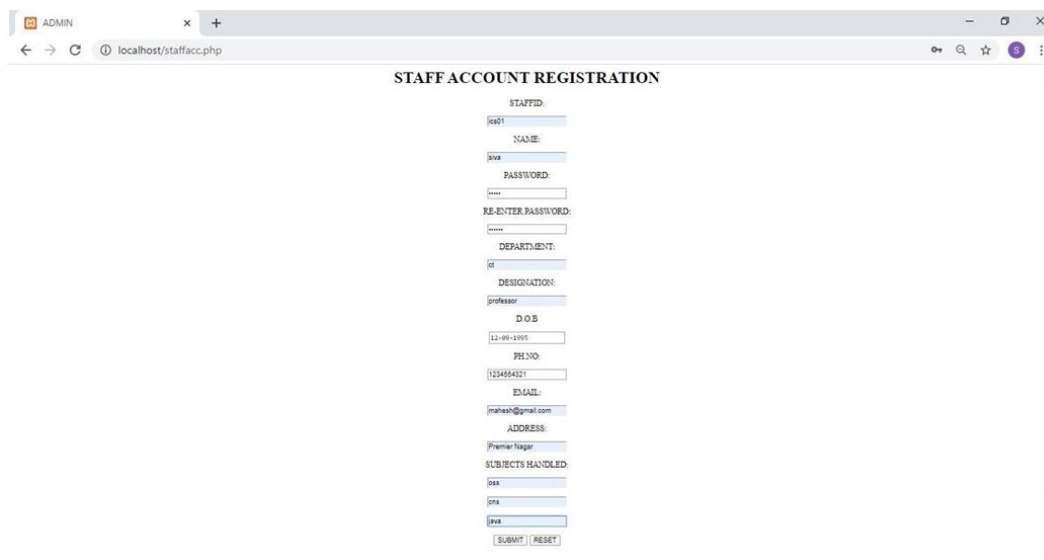


Figure 6 Staff Account Registration

Student fees form

- The Student Fee Form is used to enter the student’s fee details.
- It gives detailed structure of the fees based on semester and department.

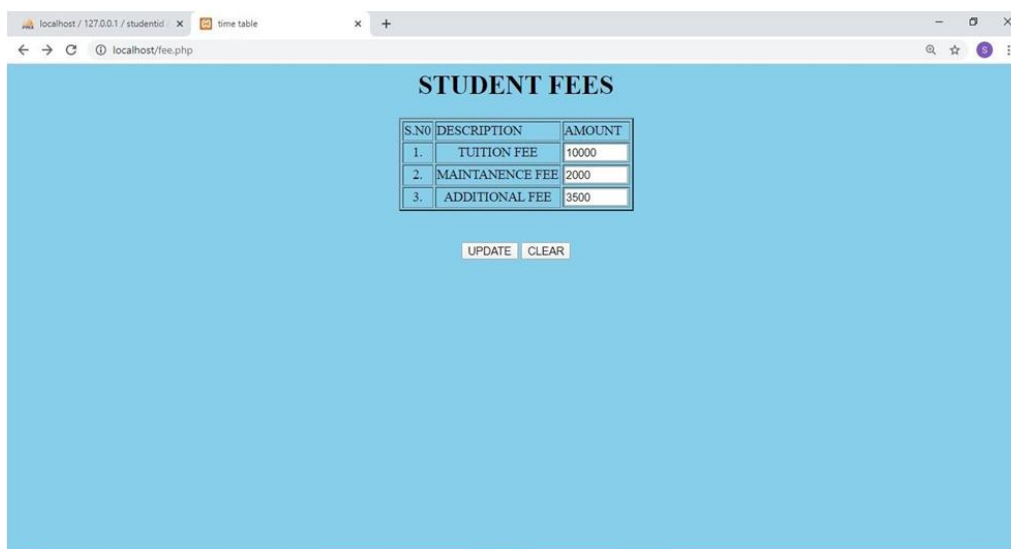


Figure 7 Students Fees Details

Student mark form

- The Student marks form is designed for uploading the internal or assignment and cat marks of the students for a particular course or an individual student.
- It can be import from excel sheet for all student at a time.

student mark

CLASS ASSIGNMENT	HOME ASSIGNMENT	CAT
CA-1	HA-1	CAT-1
CA-2	HA-2	CAT-1
CA-3	HA-3	CAT-3
CA-4	HA-4	
CA TOTAL (best three)	HA TOTAL (best three)	CAT TOTAL (best one from 1&2)
CA AVERAGE	HA AVERAGE	CAT AVERAGE (out of 60)

ATTENDANCE
Percentage %
AVERAGE

SUBJECT
INTERNAL MARK TOTAL (out of 100)
INTERNAL MARK AVERAGE (out of 25)

Figure 8 Students Mark Sheet

Timetable form

- Time table separately for student and staff. It can be update by the administrator.
- Staff time tables are given individual for each

STUDENT TIME TABLE

	9:00-9:50	9:50-10:45	11:00-11:50	11:55-12:50	12:50-1:50	1:50-2:50	2:50-3:45	3:45-4:30
MONDAY	cn							
TUESDAY								
WEDNESDAY	SA							
THURSDAY	SA	sdooa						
FRIDAY	sdooa							
SATURDAY								

Figure 9 Class Time Table

6. SYSTEM IMPLEMENTATION

Systems implementation is the construction of the new system and the delivery of that system into production. It is the practice of creating or modifying a system to create new business process or recreate an existing business process. Technology integration is the practice of integrating multiple system activities to interact and generate information efficiently.

STEPS

- Testing the developed system with sample data
- Detection and correction of errors
- Marking necessary charges in system.
- Checking the report with that of the existing system.

7. SYSTEM TESTING

Testing is a process, to evaluate the functionality of a software with an intent to find whether the developed software met the specified requirement or not and to identify the defects to ensure that the product is defect free in order to product the quality product.

7.1. White Box Testing

The most important development activity is the conversion of the design so far enveloped into project. In each stage of preparation, the project has been tested and errors are corrected. All accuracy measures are taken into account while testing the application.

Example,

We had repetition in database when entry of student details.

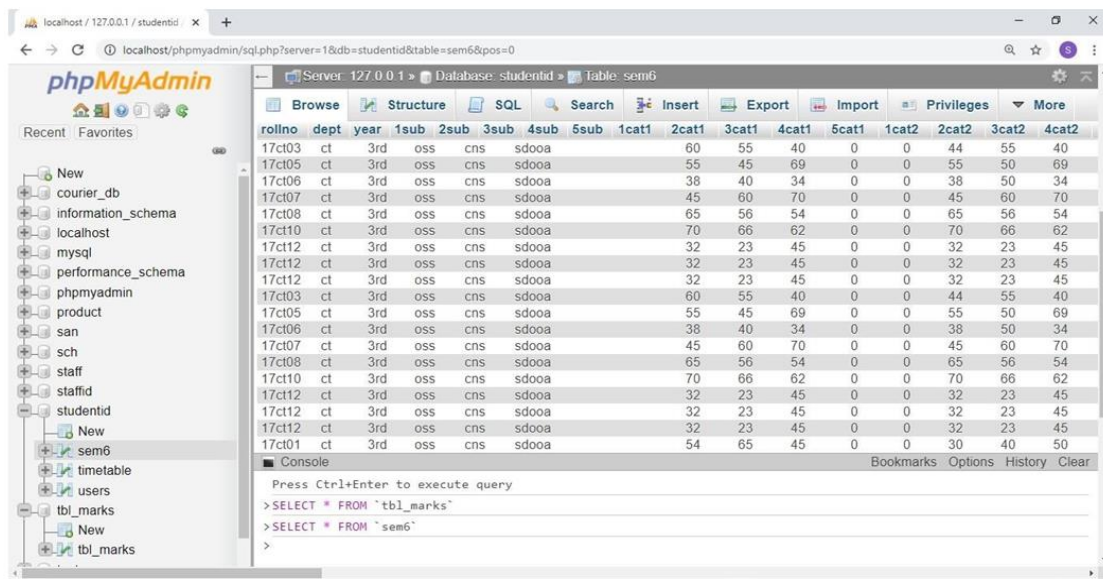


Figure 10 PHP Admin panel

7.2. Alpha Testing

The common view of testing is performed to prove that there are no errors in a project. It is virtually impossible to prove that no program will be free and clear of errors. Executing a program in a simulated environment performs verification. It is called alpha testing.

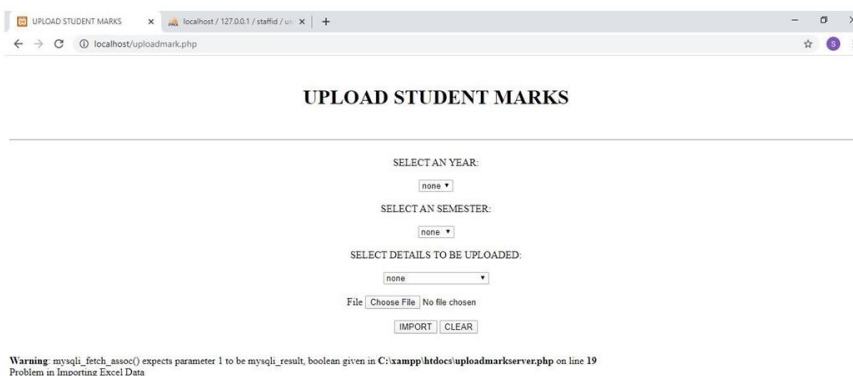


Figure 11 Uploading Page

7.3. Unit Testing

Unit testing is a level of software testing where individual units/ components of software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

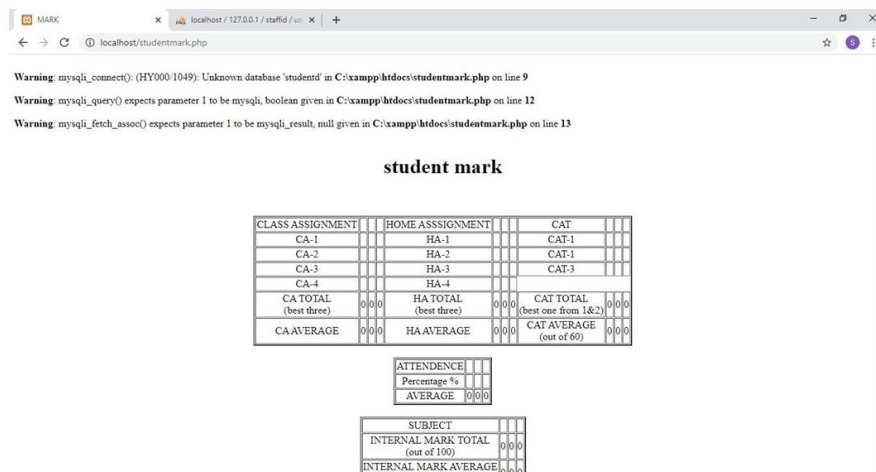


Figure 12 Students Mark Details

7.4. Integration Testing

Integration testing is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing.

8. CONCLUSION

As a solution, we propose E-Campus portal to generate a more accurate and efficient automated information system. This particular system mainly concentrates on managing student the internal and other assessment scores keeps through an electronic grade book and managing many other student-related data needs in a schools, colleges or universities. In case of manual system, they need a lot of time, manpower etc. Here almost all work is computerized. So the accuracy is maintained. It can do within a few minutes. Our system has three type of accessing modes, administrator, staff and user. Student management system is managed by an administrator. It is the job of the administrator to insert update and monitor the details of staff and student. Student/parent logon to the system they can only view details of the student. They can't perform any changes.

9. FUTURE ENHANCEMENT

- This project can be easily upgrade in the life. And also include many more features for existing system.
- All the information can be easily accessed by the student like attendance, libraries books available
- Alert send to parents, if student will absent.
- We can make the exam time table, hall number, seating arrangement.

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