

Automated Online Administration Management Academy Information System

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ABSTRACT

The Objective of the project is to develop Administration Management System for all Colleges to maintain and manage the basic modules of the college such as Student Administration which includes user creation, Application submission, Application and document verification by staff, sending mails and notification regarding student's Progress, verifying staff accounts, etc. The Project also provides Modules Student Placement, Staff Recruitment, Result analysis based on current semester results and generation of report, Exam fee module for generating Consolidated Fee Reports for Office Use, Students and Teacher's Reference. The Project also Comprises of Study Material Modules for Students of the college. Best practices of a typical Engineering college was re-viewed and each module was studied thoroughly.

1. INTRODUCTION

The Project titled Automated Online Administration Management and Academic Information System developed to support all modules of a college and make the task of concerned department faster and easier in terms of money, time and Storage. To minimize errors and mistakes caused due to manual entry/filling of forms and documents, and it also helps to search required data faster easily.

Scholarly Information System is the basic structures for working colleges. The Academic Information System is a student level data gathering structure that allows the Department to accumulate and separate more exact and careful information. Understudy information systems offer capacities to enter and keep up understudy's fundamental in the time of concentrate in the college.

2. PROJECT DESCRIPTION

Academic information system provides some key features: This system can manage student's records. This system can manage student's attendance details. This system manages student's internal marks and performance during the academic year. The system also associate faculty, student and parents in viewing the academic performance of a student/ward. These product frameworks basically design to manage the student's related exercises, for example, keeping records of the examinations, attendance, internal marks and performance during the academic year.

3. EXISTING SYSTEM

In Existing system maximum works done on paper. And student can view their academic information only through the circulars/displays on the Notice board. Parents will get only postal

communications. The important drawbacks of the system are All the processes are time consuming Timely information will not reach the student or parent. It is not eco- friendly.

College Administration Management System was earlier done by maintaining data in Excel sheets, in student application forms and in printouts. There were long queues of students waiting to submit their application forms and Documents for verification. All data from Student's application form was entered to Excel sheets manually which would give rise to manual errors and same information was used for other tasks.

4. TOOLS AND TECHNOLOGIES USED

Overview of PHP

Later the ability to work with web forms and connecting to database was added. In 1997 PHP was renamed as Hypertext Preprocessor and was used to create simple dynamic web applications. PHP is an open- source technology. Its syntax is almost similar to C, Java and Perl script. Every PHP file can be run on web server and are identified with the extension (.php).It is easy to download and can be run on different platforms. PHP can be embedded with html, and can contain JavaScript, jQuery, CSS and other supporting languages. It can also be used with web framework. PHP interpreted code is put to execution as a module in web servers. The outcome of interpreted and implemented PHP code is combined with the webpage generated. PHP is portable and can run on most web servers.

USERS

There are four types of users who can

interact with the system.

Admin: Admin is the main actor or person of this system, admin should be some authorized person of the department likewise HOD, and have privilege to access all the users, admin may add or delete users, and can manage students records and students attendance details. Also, can add parents, and faculty details. Admin here may add the new course to the system.

Student: Student may view marks report and attendance, using the unique id number provided by admin. this system allows users like students to view their performance. Students should be valid users from the particular college. Students only can view, can't edit their records.

Faculty: This kind of users also have privilege to manage students details, faculty can edit students records, and may login to this system using valid user id and password, which provided by admin of this system. Faculty may keep track record of students performance. Faculty also may manage students internal marks and attendance details.

Parents: parents are the valid user of this system, approved by admin, and may login to this system using valid user id, provided by admin. Parents may view the particular ward's records likewise internal marks and attendance details associate with admin or the faculty

Input, Processing and Output User Registration (Student)

- Purpose: used to register new user to the system.
- Inputs: Full name of applicant, email-id, password, repeat password

course and photo

- Process: checks for valid email-id If valid
 - Checks if email id is existing or new If existing email id, notifies the user that email already exists
- Output: Email Already exists If new email id-Checks for passwords match
- If no password match, notifies user that passwords are not matching
- Output: Passwords do not match
- If passwords are matching Insert the data to database, register user and generate applicant registration id.
- Output: Student registration successful
- If email id is not valid, notifies the user that email is not valid
- Output: Please enter an email address
- Student Login
- Purpose: allows the student to login by authenticating the user
- Inputs: email-id, password, branch.
- Process: Checks for valid email-id, password and branch
- If valid
- logs the user to the system
- output: Presents the users with user profile
- If Invalid
- notifies user that email id is not valid
- Output: Invalid User Credentials

Functional requirements describe about a function of the system. Functional requirements also describe about the set of input that the system takes, how that input is processed and how the output is produced by the system.

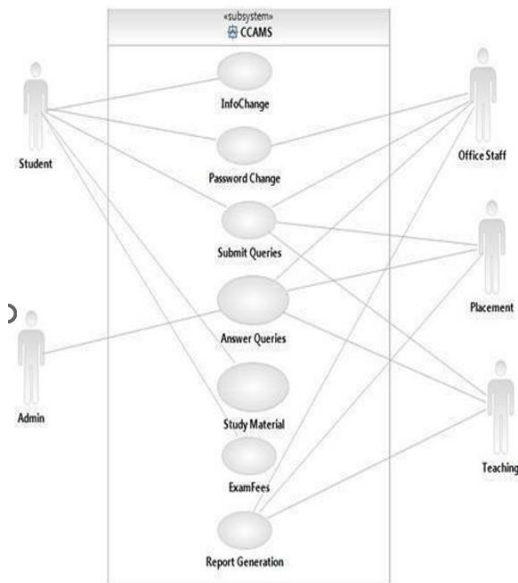
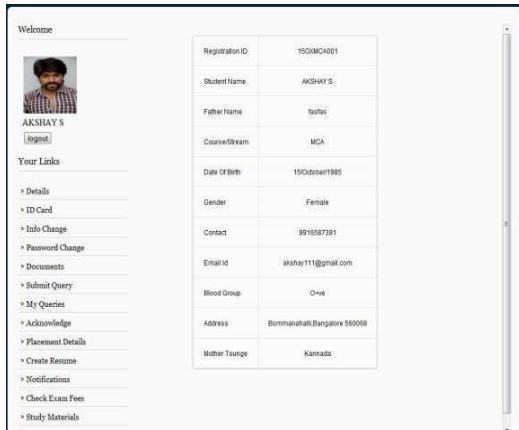
The data entered by applicants at the time of admission is maintained until their education is completed in the college. The same information is displayed to the student when he logs in to the profile and given an option to change and update his info. Every user login credentials are stored in database which is used to authenticate user login. Report generation is also done by the retrieving information from database. Results are also stored in database using which result analysis is calculated.

5. TESTING

Testing is process of finding the correctness of actual behavior of the system i.e. whether the system works as required by the user and satisfies all specified requirements. Testing allows to find out the defects in the developed system and to enhance the functionality of the system.

STEP NO	STEPS	DATA	EXPECTED RESULTS	ACTUAL RESULTS	TEST RESULT
1	Student login Fill Login details and press Login	Enter wrong email-id and password	Display warning "check login details"	Shows warning "check login details"	Pass
2	Student login- Fill Login details and press Login	Select wrong course	Display warning "wrong course selected"	Shows warning "wrong course selected"	Pass

FUNCTIONAL REQUIREMENTS

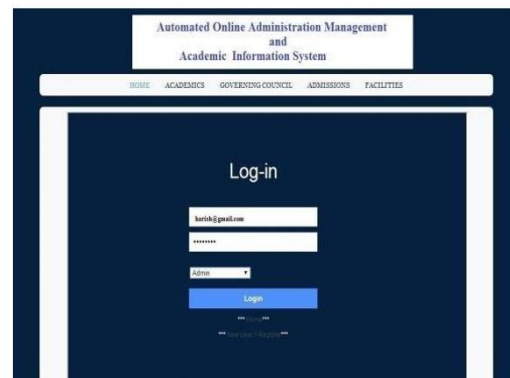
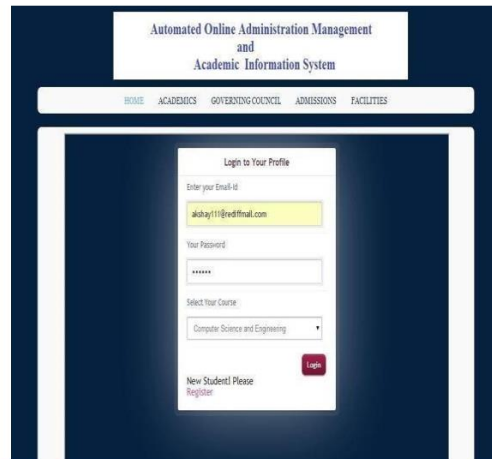


Unit Testing

Each module in CCOAMS has been tested individually. Unit testing consists of the following:

- Data flow testing- Use to examine use of variables and how they are assigned in a program.
- Static Testing-used for reviewing the coded and design components.
- Basic path testing- Path testing is executed considering the normal flow.

- Condition/multi-condition testing
 - Path testing is executed considering decision points.



Admin Module Edit Info

Purpose: To change user password and profile photo

Inputs: old password and new password

Process: checks if old password matches the password in the database

If password matches.

Changes the password

- Output: Password Changed
- If passwords do not match
- Notifies the user that passwords do not match
- Output: Invalid Password for Change

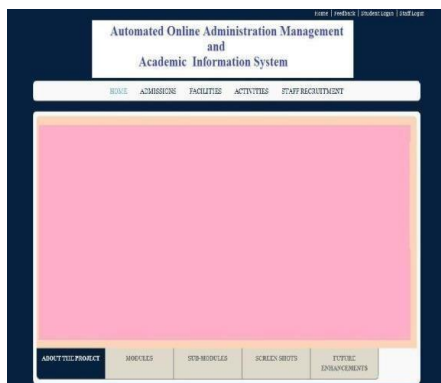
Add Admin Account

- Purpose: To add new admin to the system
- Process: Existing admin adds a new admin by giving the name of new admin and clicks on add admin button
- Input: new admin name, position by default will be admin, password: Admin and account status yes
- Output: New Admin added successfully

Verify Staff accounts

- Purpose: To verify College staff accounts
- Process: All registered staff accounts will be listed with an option to select valid accounts. Admin selects the valid staff accounts and clicks on verify button. Once activated staff can login to the system
- Input: staff accounts are selected with textboxes
- Output: Staff accounts Verified
-

Test Case



6. CONCLUSION

In Results generation, all student results are retrieved from results website, by traversing each student results and storing them in database. as this confirms the results are correct as per the university. As a result, all reports generated using this data is accurate. This result data stored in database is used in generating consolidated exam fee list, for calculation of result analysis and calculation of student exam fees for upcoming semester.

Report generation is made very easy for college staff, and reports can be generated in seconds with different criteria needed by different departments of college by simple clicks. Reports generated can be exported to MS Excel File (.xls) which is easy to View and take printouts. Generated reports are correct and accurate to the data in database.

7. FUTURE ENHANCEMENTS

The program is finished, albeit there are a few updates in the works. These improvements include sending lecture notes to students, establishing a student forum for student involvement, and allowing parents to receive notifications on their mobile devices. Admins will also be able to send notifications to every user, and the college will be able to collect student feedback. Additional features that are planned are the creation of instructor timetables with student filtering options, student attendance management, internal mark analysis and report generating, and a user chat system.

8. BIBLIOGRAPHY

- [1]. “Robin Nixon”, “Learning PHP, MySQL & JavaScript, 4th Edition”, “Shroff Publishers & Distributors Pvt. Ltd.”
- [2]. “Xue Bai et al”, “The Web Warrior Guide to Web Programming”, “Thomson Publications”, 2003.
- [3]. “Joel Murach”, “Joel Murach’s PHP and MySQL”, “Mauch’s Publications”, “First Edition”. [4]. “Ivan Bayross”, “Web Enabled Commercial Application Development Using HTML, JavaScript and PHP”, “4th Revised Edition”.

