# An Automated Application for Choice Based Credit System

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**Abstract** - The project is entitled as, "An Automated Application for Choice Based Credit System". The main objective of the project is to design and to develop the window based application software to computerize the the course registration system. The project is developed with PHP 6 platform as front end and Mysql 8.0 as back end. The proposed software contains two main components: the system will store the information of student course registration details and admin can able to get details about the student. The System is also providing customized search options and it generates all kinds of reports as per the user's requirements. This website is used to maintain the student registration details like student's department, category and which course they selected as well as to generate the report for all the modules.

Index Terms-credit, course, registration, modules

#### **1. INTRODUCTION**

The proposed software contains two main components. The system will store the information of student course registration details and admin can able to get details about the student. The System is also providing customized search options and it generates all kinds of reports as per the user's requirements. The number of student's enquiry to us. The student details also maintained separately. It contains name of the student, log date, category and register number. The Report module have contains the overall details about the students. And the student can able to change the course registration details and admin can able to retrieve the information about the students. These details are maintained by the report like Portable document format as well as the Microsoft's word document file

#### **1.1 ORGANIZATION PROFILE**

STC is a self-financing institution with autonomous status founded by the charitable trust VSV vidhyaa Mandir in 1997 to offer quality education at affordable cost to the rural students of Pollachi region. The college offers 15 under graduate degree courses, 8 Post graduate degree courses and 6 Research Programs. STC strongly believes in the skill development of the students rather than student's graduation with mere knowledge and searching for opportunities. The institution has several MoUs and Tie-ups with several organizations like CODISSIA, Talent Sprint, Educational Institutions and Training Institutions etc. for hands-on training, industry visit, and development of aptitude skills, technical skills and communicative skills as a part of integrated learning model right from first year.

STC has a unique transformation model which calls for 40% of Knowledge sharing, 50 % of Skill development and 10% of Attitude which we humbly put it as our contribution towards Nation building exercise. STC has also been re-accredited by National Assessment and Accreditation Council (NAAC) of the University Grants Commission (UGC) with a grade and also has got ISO 9001:2008 certifications.

We have various student centric Centres of Excellence, which enable the students to utilize the best of their services and achieve their goals. Also STC students have a commendable record in sports at National and International levels. STC Volleyball team is considered to be one among the best teams in the state.

#### 2. SYSTEM ANALYSIS

#### 2.1. Existing System

In existing system all the data of Student details are entered manually, so it takes more time to retrieve details like domain selection details, student's profile details. Furthermore, it is time consuming to retrieve one specific student's information.

#### Drawbacks of the Existing System

- Retrieval of information takes more time.
- While entering the data manually, some data might miss out.

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- All are written documents and difficult to maintain.
- Large volume of data cannot be maintained efficiently.
- Maintaining all records in orderly manner is a difficult task.
- Editing the record manually.

#### 2.2. Proposed System

Proposed system of Elective subject choice based system. Through this website user can add course details, student registration details, manage student details and, also update information and edit information within Short time. All the manual difficulties are managing in this website.

#### Advantage of the Proposed System

- User friendly interface.
- Search facility.
- Quick updating.
- Retrieval of information takes less time.
- Inserting the data is easy.
- Easy to maintain.
- Large volume of data can be maintained efficiently.
- All records are maintained in orderly manner

## 3. SYSTEM SPECIFICATION

#### 3.1. Hardware Specification

Processor	:	PENTIUM IV
Hard Disk capacity	:	40 GB
Monitor	:	14 Samtron
Floppy Disk drive	:	1.44 MB
Internal Memory capacity	:	128 MB

#### 3.2. Software Specification

Operating System	: Windows 7
Front End	: HTML, PHP
Back End	: MySql (PHP My Admin)

#### 4. INPUT DESIGN

The input design of this project is the Web Forms are based on Html, JSP and PHP. Working with Web Forms is similar to working with Windows Forms. But the difference is that we will create Web pages with Web forms that will be accessible by a Web browser.

Web Forms are Web pages that serve as the user interface for a Web application. A Web Forms page presents information to the user in any browser or client device and implements application logic using server-side code.

Student Registration	
Student Registered Successfully !!	
Student Name	
S.M.Prakash	
Student Reg No	
N6BCS6666	
Category	
Α	
Submit	

Fig. 1: Input Design

#### 4.1. Output Design

The basic objective of any information system is to produce the desired out put in a specified manner for the end user. As for as the end user is concerned

anage Cours	se				
		Student Name			Action
number	Reg No	Student Name	Category	Reg Date	Action
	n6bcs0006	ms mani	в	2018-11-12 16:26:25	Reset categor
2	n6bcs0060	Murukanantha prakash.S	A	2018-11-12 18:02:45	Reset categor
3	n6bcs0140	hasan	A	2018-11-12 19:33:53	Reset categor

most of them do not interact with the system for data input or operate it, but will receive the information that it gives.

#### Fig. 2: Output Design

The output design should be in an unambiguous way such that complexity should be avoided and completeness should be incorporated. The output is designed in terms of data content and approximate lay out. The information required by the management is also taken in to consideration.

The outputs are the most important and direct source of information to the user. A well-designed output greatly increases the system's relationship with the user and help in decision-making.

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#### 5. LANGUAGES AND SOFTWARE

#### 5.1. Bootstrap

Bootstrap is a front-end framework that is developed to support creating dynamic websites and web applications.

It is one of the most preferred front-end frameworks as it aids an easy and fast processing to develop a website. It supports all major browsers and fast loading responsive web pages. Displayed equations are to be centered on the page width. Standard English letters like x are to appear as x (italicized) in the text if they are used as mathematical symbols. Punctuation marks are used at the end of equations as if they appeared directly in the text.

#### 5.2. *HTML*

HTML There are many advantages and disadvantages of HTML, including compatibility and difficulty of use. HTML is the basic language to learn for web technologies.

#### 5.3. *MySQL*

MySQL is a relational database management system (RDBMS that runs as a server providing multi-user access to a number of databases. MySQL is officially pronounced ("My S-Q-L"), but is often also pronounced ("My Sequel"). It is named after developer Michael Widenius daughter, my. The SQL phrase stands for Structured Query Language.

Design of this project is the Web Forms are based on Html, JSP and PHP. Working with Web Forms is similar to working with Windows Forms. But the difference is that we will create Web pages with Web forms that will be accessible by a Web browser. Web Forms are Web pages that serve as the user interface for a Web application. A Web Forms page presents information to the user in any browser or client device and implements application logic using server-side code.

#### 6. TESTING

#### 6.1. System Testing

Software testing is a critical element of software quality assurance and represents the ultimate reviews of specification, design and coding. Testing presents an interesting anomaly of the software. During earlier definition and development phases, it was attempted to build software from abstract concept to a tangible implementation.

The testing phase involves the testing of the developed system using various set data. Presentation of test data plays a vital role in system testing. After preparing the test data the system under study was tested using test data. While testing the system by using test data errors were found and corrected. A series of tests were performed for the proposed system before the system was ready for implementation. The various types of testing done on the system are:

#### Unit Testing

Unit testing focuses verification effort on the smallest unit of software design, the module. It comprises the set of test performed by the programmer prior to integration of the unit into larger system. The testing was carried out during the coding stage itself. In this step each module is found to be working satisfactorily as regards to the expected output from the module.

#### Integration Testing

Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover error associated within the interface. The objective is to take unit tested modules and build a program structure that has been dictated by design. All modules are combined in this step. The entire program is tested as whole. And chaos in interfaces may usually result. A set of errors is encountered in such a case.

#### 6.2. Validation Testing

Here in the validation testing we want to check whether the given conditions to the text box are working correctly. Because in the name place we want to enter the characters and the special symbols only we should not enter the numbers in the name field. Here while on runtime we entered numeric values in the string specified columns of product inwards. It raises error. In this phase each module has been tested by wrong inputs, for example Employee Name should be a character as well as their age should be in numbers.

## 7. MODULES & ITS DESCRIPTION

#### 7.1. Student Personal Details

This module consists of Date of Entry, Application Number, and Student Details such as Student name,

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course code, Category, Register number. Student also can Save, Update, Delete and Search the details.

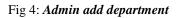
Course
ourse Created Successfully !!
Course Code
N6BCS5T67
Course Name
DATA MINING
Course unit
5 UNIT
Seat limit
50
Submit

## Fig 3: Admin Add Title of the course

Course Enroll
Enroll Successfully !!
Student Name
sm
Student Reg No
n6bcs0060
Pincode
670723
Session
2016-2019
Department
computer science

Fig 6: Student enrolling the course

Department	
Department Created Successfully !!	
Add Department	
computer science	
Submit	



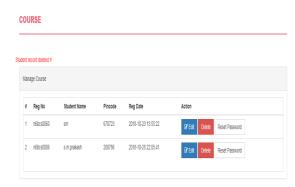


Fig 5: Admin manage the details

## 7.2. Student Course Register Details

This module having Student id and Course register Details such as Domain Name. Student also can Save, Update, Delete and Search the details in it.

## 7.3. Student Category Details

Students are separated by his category. and the category divided into four categories. Admin can insert Student's category in category field.

## 7.4. Report Module

This Module is used to generate various reports as per management need and requirement

- Report on Student Details
- Report on Enrollment Details

## 8. CONCLUSION

All the objectives that had been charted out in the initial phase were achieved. System satisfies all the requirements for which the company development the system. System has strong security.

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It is easy operate and user friendly. Platform includes the inbuilt backup and recovery facility. Working on the project was a good experience. Working together in terms helped us to communicate better. User understands the important of planning and design as a part of vehicle development. The concept of peer-reviews helped to rectify the problems as and when they occurred and also helped us to get some valuable suggestions that were incorporated by us. Developing the project has helped us to gain some experience on real time developing procedures.

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