

Certificate

This is to certify that this Project Report "College Website" is submitted by Manroop Singh(4605), Parampreet Singh Rai(4604), Dhyanesh Bawa(4603) who carried out the project under our supervision. We approve this project for submission of the Bachelor of Computer Application, affiliated to Panjab University for the award of any degree.

The work done in this project is the result of their own effort. We wish them all success in their all endeavors.

This work is fit for the consideration of award of the said degree to them.

DR. VIVEK BHAMBRI DR. RAJAN MANRO

(Head of Department) (Project Guide)

Declaration

We (Manroop Singh, Parampreet Singh Rai and Dhyanesh Bawa) as a team and students of BCA in A.S College, Khanna Affiliated to Panjab University, Chandigarh would like to declare that the project entitled "College Website" submitted by us in partial fulfillment of the requirements for the award of the Degree of BACHELOR OF COMPUTER APPLICATION in A.S College, Khanna is our original work.

We further declare that this Project work has not been submitted to any other College or University for the award of degree/diploma or equivalent course

Place: A.S College, Khanna. **Signature of the Candidates:**

Date: Manroop Singh

. Parampreet Singh Rai

. Dhyanesh Bawa

ACKNOWLEDGEMENT

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Our team would like to express our thanks to the principal of the college, Our professor and Project Guide Dr. Rajan Manro for giving us opportunity to build our project under his guidance and support and all the teachers of Department of Computer Application for everything we have learned from them and for their guidance. We express our sincere thanks to our teachers, our friends and our parents for their wishes and unconditional support.

A bit close to our home we would like to express our regards to our parents whose affection and moral support had been a source of great inspiration and enthusiasm in the yield.

PARAMPREET SINGH RAI(4604),
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Problem Statement

Develop a "College Website" to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. College Website , as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to over come and managing the information of Student, College, Course, Faculty, Fees. Every College Website has different College needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow yo to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

Objective

The main objective of project on college web site is to manage the details of college, students, employee., courses, fees, rules, activities and other informaton. It manages all the information about college, faculty, fees, college. The purpose of the project is not only to display the information but to provide interaction between college, students and other users. It shows the people all the facsilities and activities provided by college to students as well as students can send interactive articles messges that can be selected by administrator and can be placed and a seprate section of website.

The college site also provide a better and fast interface which is easy to acces and loads the whole web site together so that when user click on a web page it does not take time to load the web page it instantly jump to the clicked web page.

The project also reduce the manual work for college and students for managing, retrieving, publishing and accesing information in the college.

Functionalities provided by College Website are as follows:

- Present college committee information
- Present image of college
- Easy navigation between pages
- Faster page load and switch
- Responsive to all screen sizes
- Connect chat bot with Telegram
- Store notifications, events and news in database
- Present remaining information about college
- Shows the information and description of the college
- Editing, adding and updating of records is improved which results in proper resource managment of college data.

Scope

This SRS applies to all the official web application that are developed to maintain the information online. This is extended to all the domain of the applications.

The project help in collecting, displaying and processing the information about the college and aims to reduce the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business automation, i.e. we have tried to simplify and automate various processes of college website in better, fast and modern design.

Functionalities provided by the College Website are as follows:

- Present notifications
- Present college events
- Present college news
- To present message given by management, principal, and by senior students
- Present various Articles by students on the website
- provide information about various courses in the college
- provide admission schedule to students before starting of new session
- provide information about various activities and resources for students
- Student can view study materials, Exam routine and important news related to their college, class, course in one place with a click of mouse
- To receive queries from users either by web forms, emails, and telegram chat bot
- Provide chat bot connected to Telegram bot API
- Easy to understand by user and operate
- Have a good interactive user interface
- It satisfies the user requirements.
- To utilize resources in an efficient manner by increasing their productivity through automation
- To assist the staff in capturing the effort spent on their respective working areas
- The system generate types of information that can be used for various purposes
- Be expandable
- Delivered on schedule within the budget

The project can be easily implemented under various situations. We can add new features as and when we require, making reusability possible as there is flexibility in all the modules.

Assumptions in the Project

Resources :

- Three team members to work on project.
- Hardware as stated in requirement section.
- Software as stated in requirement section.
- Systems to build to project.
- Time needed to build the project.
- Funds needed during build process.
- Internet etc.

Delivery of Project:

It will take about two months from the date the project has been assigned to complete and deliver to client.

Technologies used to build the Project:

- React js (Front End)
- Node js (Back End)
- Tailwind CSS (User Interface)
- HTML
- Git (Project Storage and Management)
- Sql - Lite (Data base)
- Visual Studio Code (Text Editor)

The technologies used by us to build the Project are more briefly explained in the upcoming report for better understanding.

Scope of project:

The aim of the Project College Website is to provide a fast, better looking, easy to use, and efficient website to college to automate some of the processes and manage information about the college on website.

The aim or objective is further briefly explained in the report.

Schedule:

- Firstly we will gather as much information to work on the project.
- Then we will plan on how to build the project and what to build.

- After planning we will create a design of project for better understanding about the project.
- After the design has been made we will do feasibility study to know that whether the project is possible to make in given time and budget.
- After that we will convert the design into real time working mode by coding the project.
- After the coding has been done all the tests will be done to ensure quality and efficiency.
- After all the processes we will deliver the product and launch it on client side

Budget and Finances

The budget for the project will be the same as discussed and given by client we will ensure to remain under the budget during working on the project.

The Discussed budget is between 50000 - 80000.

Constraints

- Minimum number of servers required is 2 otherwise some functionality of web application may not work. One for backend API and other one for frontend which contains all design and other client side codes (CSS, JS, HTML) packed with React Bundle.
- Server need to have support for nodejs applications. It can be hosted on Windows and Linux Servers but in Windows, minimum required version is Windows 10. Server need to have support for nodejs applications. It can be hosted on Windows and Linux Servers but in Windows, minimum required version is Windows 10.
- User need to have a personal computer or cell phone with internet connection.
- Admin and user must remember login id and password.