

**A
PROJECT REPORT
ON
COLLEGE INFORMATION SYSTEM SOFTWARE
(A SYSTEM SOFTWARE)**

**SUBMITTED
TO**



**BHARATI VIDYAPEETH UNIVERSITY, PUNE
IN THE PARTIAL FULFILLMENT OF
BACHELOR OF COMPUTER APPLICATIONS**

Sem-IV (2020 - 21)

BY

Abhishek Bhosale

UNDER THE GUIDANCE OF

Prof. . D.D.MHETRE

Through

THE DIRECTOR

BHARATI VIDYAPEETH UNIVERSITY, PUNE

ABHIJIT KADAM INSTITUTE OF MANAGEMENT AND

SOCIAL SCIENCES, SOLAPUR

BHARATI VIDYAPEETH UNIVERSITY, PUNE
ABHIJIT KADAM INSTITUTE OF MANAGEMENT AND SOCIAL
SCIENCES, SOLAPUR

DIRECTOR'S CERTIFICATE

This is to certify that the project entitled “**COLLEGE INFORMATION SYSTEM SOFTWARE**”, Prepared by **MR. Abhishek Dattattraya Bhosale**. In partial fulfillment **BACHELOR OF COMPUTER APPLICATION** was carried out under the supervision and the guidance of **PROF. D.D MHETRE** and same forwarded to the university. I wish him all the best and success in future endeavors.

Place: Solapur

Date:

DR.S.B.SAWANT

(B.sc,MBA,MA(Eco),M.phil,Ph.D,GDC&A,PGDRD)

(Director)

BHARATI VIDYAPEETH UNIVERSITY, PUNE
ABHIJIT KADAM INSTITUTE OF MANAGEMENT AND SOCIAL
SCIENCES, SOLAPUR

GUIDE CERTIFICATE

This is to certify that, **MR. Abhishek Dattatraya Bhosale** has satisfactorily completed the project work entitled “**COLLEGE INFORMATION SYSTEM SOFTWARE**”. For Partial fulfillment of BCA-II submitted to **Bharti Vidyapeeth University , pune .**

During the academic year 2020-21 under my guidance . To my best knowledge and belief the matter presented him is original and not copied from any source. Also, this report has not been submitted earlier for the award of any degree or diploma of Bharti Vidyapeeth University or any other University .

Place: Solapur

Date:

PROF. D.D.MHETRE

(Project Guide)

BHARATI VIDYAPEETH UNIVERSITY, PUNE
ABHIJIT KADAM INSTITUTE OF MANAGEMENT AND SOCIAL
SCIENCES, SOLAPUR

D E C L A R A T I O N

I hereby declare that the project work entitled “**COLLEGE INFORMATION SYSTEM SOFTWARE**”, Is an original and bonafide work undertaken by me under the guidance of **PROF. D.D.MHETRE** the empirical finding in this report is based on the data collected during the project work .The matter included in this report is true and verified .

This report has not been submitted anywhere else for the awarded of any degree , diploma , or title .

Place: Solapur

Date:

MR. Abhishek Dattatraya Bhosale

B.C.A.

BHARATI VIDYAPEETH UNIVERSITY, PUNE
ABHIJIT KADAM INSTITUTE OF MANAGEMENT AND SOCIAL
SCIENCES, SOLAPUR

Acknowledgement

This study is an attempt TO “**COLLEGE INFORMATION SYSTEM SOFTWARE**” I owe my deep sense of gratitude for this successful completion of this project was made possible through co-operation of many people . I am deeply conscious of the fact that study would have not possible without willing co-operation of **PROF.D.D.MHETRE** sir by giving permission for collecting the data .

I also extend thanks to my project guide **PROF.D.D.MHETRE** for his valuable guidance .

Place :- Solapur

Date:-

MR. Abhishek Dattatraya Bhosale

INDEX

1. Introduction to the Project.....	
2. Need of computerization	
3. Feasibility Study.....	
• Technical	
• Economical	
• Operational	
4. Tentative Duration and Budget.....	
5. Hardware And Software Needed Minimum.....	
• Hardware Specification	
• Software Specification	
6. Introduction Of Programming Language	
7. Input Design	
• Functions used from c	
• Flowchart	
• Screens	
8. Future Implementation.....	
9. Advantages & Disadvantages Of software.....	
10. Bibliography	

➤ Introduction of Our Project

“COLLEGE INFORMATION SYSTEM SOFTWARE” is one can go into almost required solution regarding the college courses information. It is an application which refers to education systems which are generally small or medium in size. It is used by students and staff also to get the information of college , streams , semesters, subject also using a computerized system where he/she can select the four main courses provided by university and get information of selected course which have included with semesters and subjects .

student and staff information modules are also included in this system which would keep track of the students & staff using the application and also a detailed description about the information a college contains. With this computerized system there will be no loss pamphlet designs and some paper stuff that contains college information which generally happens when a non-computerized system is used.

Akimss is an application presence and can break plenty of geographical and demographic boundaries. Therefore, it can play a crucial role in presenting information about colleges and institute . There is no end to the kind information that we provide here .

All these fields are able to help user to get information with more convenience and in a more efficient way to compare other courses which university provides .

➤ **Need of computerization**

- It will give information About college and University on devices .
- It will give information in depth information about courses .
- It will Grab attention .
- It gives social interaction .
- To majority of students kept informed about Akimss .

➤ **Feasibility study :**

Feasibility Study is in fact a Preliminary Investigation, which emphasizes the “Look before your leap”, approach to any important Projects. A Feasibility Study is undertaken to determine the possibility of either improving the existing system or developing a completely new system. It helps to obtain an overview of problem and to get a rough assessment whether feasible solution exists.

1. Technical Feasibility :

As far as technical feasibility is concerned, now days you cannot say that particular things is not possible technically. This is because of the invention and new trends in the traditional aspects.

In technical feasibility, we have to take care about whether existing technical devices are sufficient to develop the project. If not so then we have to go for purchasing these devices.

To develop MENSURATION, I have needed the following software's and hardware:

A PC with good configuration

- Pentium – III or higher
- RAM – 500 MB SDD
- 20 GB Hard Disk
- CD – ROM
- Keyboard / Mouse

List of Development Tool

- MS Windows 7 Operating System
- Turbo C++ 3.0
- MS Office 2010

2. Economic Feasibility :

In Economic Feasibility study cost and benefit of the project is analyzed. Means under this feasibility study a detail analysis is carried out what will be cost of the project for development which includes all required cost for final development like hardware and software resource required, design and development cost and operational cost and so on. After that it is analyzed whether project will be beneficial in terms of finance for organization or not.

3.Operational feasibility :

As the proposed system is quite user friendly, it will be easier for the end user to operate the system and get their work done faster, easier and effectively.

➤ **Tentative Duration And Budget:**

Task	Hours to Complete (Approx.)	Budget
Initial Discussion	5	-
Study of Tools	5	2000
Analysis	10	2000
Module design, Menu, Toolbar, Interface design	10	3000
Screens	10	-
Construction	10	1000
Testing	5	2000
Documentation	5	1000
Total Hours taken & Budget of Project	60 Hrs.	11,000 ₹

For developing software project work, I have chalked out the project development plan as:

In whole project we required 60 hours & 11,000 Rupees of budget to complete this project .

➤ **Hardware & software minimum :**

Hardware :

A PC with good Configuration having MINIMUM REQUIREMENT

- RAM-64 Kbps
- Processor-Pentium
- Printer with good quality
- MINIMUM 10 GB HDD
- Software : Windows Operating System
- Turbo C++
- Office XP Professional

Software :

- Windows Operating System
- Turbo C++
- Office XP Professional

➤ **Programming Language introduction :**

The C Programming Language:-

C is a general-purpose programming language, and is used for writing programs in many different domains, such as operating systems, numerical computing, graphical applications, etc. It is as small language, with just 32 keywords. It provides “high-level” structured-programming constructs such as statement grouping, decision making, and looping, as well as “low-level” capabilities such as the ability to manipulate bytes and addresses.

Since C is relatively small, it can be described in a small space, and learned quickly. A programmer can reasonably expect to know and understand and indeed regularly use the entire language.

C achieves its compact size by providing Spartan services within the language proper, foregoing many of the higher-level features commonly built-in to other languages. For example, C provides no operations to deal directly with composite objects such as lists or arrays. There are no memory management facilities apart from static definition and stack-allocation of local variables. And there are no input/output facilities, such as for printing to the screen or writing to a file.

Much of the functionality of C is provided by way of software routines called functions. The language is accompanied by a standard library of functions that provide a collection of commonly used operations. For example, the standard function `printf()` prints text to the screen (or, more precisely,

to standard output—which is typically the screen). The standard library will be used extensively throughout this text; it is important to avoid writing your own code when a correct and portable implementation already exists.

“C” language is a general purpose and structured programming language developed by ‘Dennis Ritchie’ at AT&T’s Bell Laboratories in the 1970s in USA.

It is also called as ‘Procedure oriented programming language’.

‘C’ is not specially designed for specific application areas like COBOL (Common Business Oriented Language) or FORTRAN (Formula Translation). It is well suited for business and scientific application. It has some various features like control structure, looping statement, arrays, macros required for this application.

The ‘C’ language has following numerous features as:

- Portability
- Flexibility
- Effectiveness and Efficiency
- Reliability

For many years, C was used mainly in academic environments, but eventually with the release of many C compilers for commercial use and the increasing popularity of UNIX, it began to gain widespread support among computer professionals. Today, C running under a variety of operating system and hardware platforms.

➤ Input design

Function used in c :

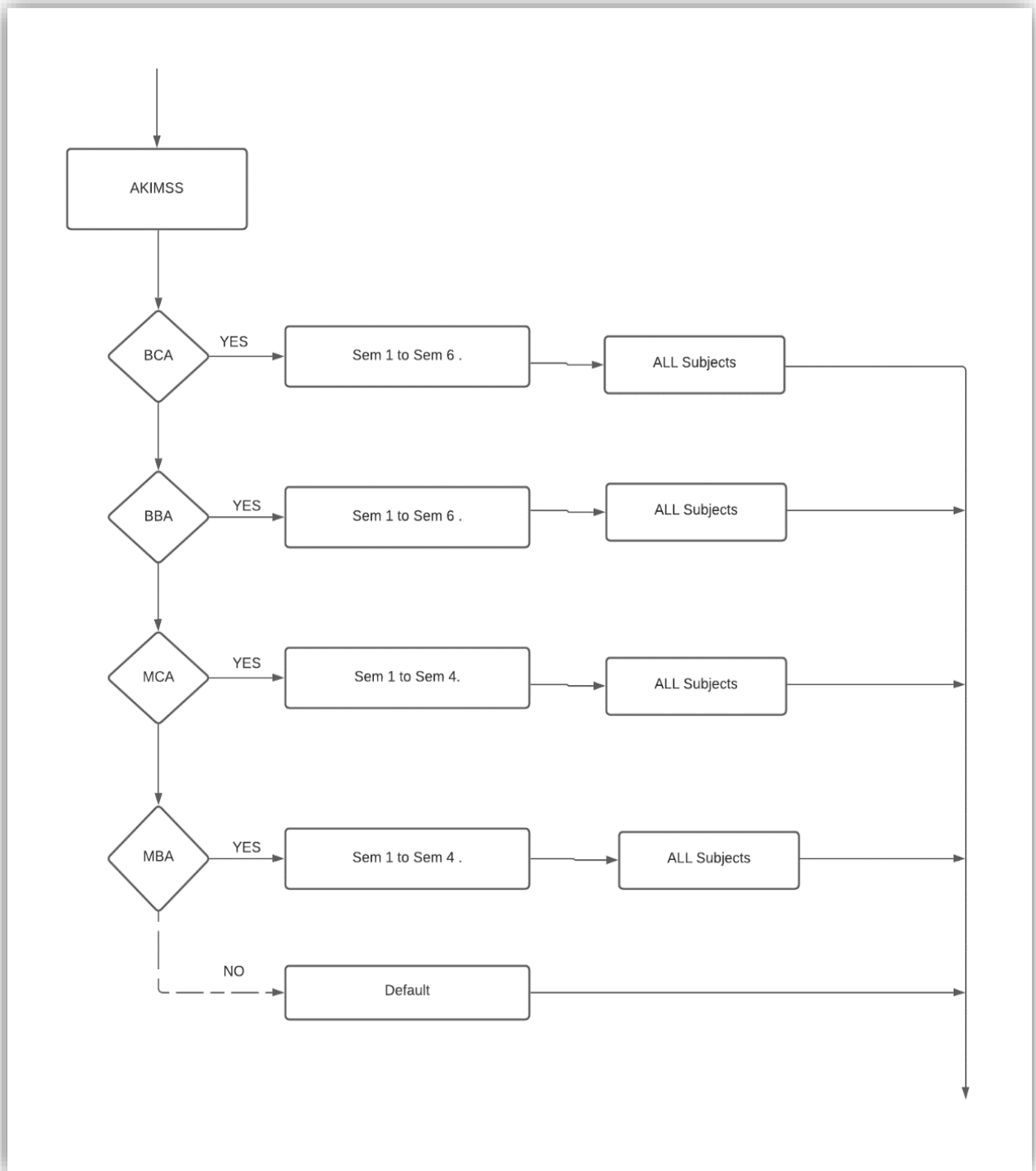
Switch Statements in C :

A switch statement allows a variable to be tested for equality against a list of values. Each value is called a case, and the variable being switched on is checked for each switch case.

The following rules apply to a switch statement –

- The expression used in a switch statement must have an integral or enumerated type, or be of a class type in which the class has a single conversion function to an integral or enumerated type.
- You can have any number of case statements within a switch. Each case is followed by the value to be compared to and a colon.
- The constant-expression for a case must be the same data type as the variable in the switch, and it must be a constant or a literal.
- When the variable being switched on is equal to a case, the statements following that case will execute until a break statement is reached.
- When a break statement is reached, the switch terminates, and the flow of control jumps to the next line following the switch statement.
- Not every case needs to contain a break. If no break appears, the flow of control will *fall through* to subsequent cases until a break is reached.
- A switch statement can have an optional default case, which must appear at the end of the switch. The default case can be used for performing a task when none of the cases is true. No break is needed in the default case.

➤ Flowchart :



➤ Screens

Screen 1 :

```
*****
                        AKIMSS
*****

welcome to AKIMSS !
we here by conduct four main courses.
=====

Select Courses :
1.For BCA
2.For BBA
3.For MCA
4.For MBA
5.To exit

=====

College Management system Application
Project By :~Abhishek Bhosale
```

This is the first output screens which display the entire task which the user can perform as per our choice. It provides a list of Five tasks.

Screen 2:

```
Project By :~Abhishek Bhosale

1

=====
You've selected BCA course.
BCA full form is Bachelor of Computer Applications.BCA Course is a 3 year, full-
time undergraduate course that studies implementation for computer applications
in software

BCA Full Form           :Bachelor of Computer Applications
BCA Duration            :3 years
BCA Eligibility         :Minimum 50% marks in 10+2
BCA Admission Process   :Either by Entrance Exams or by Merit
BCA Course Fees         :Up to 2 to 3 Lakhs

1. SEM I
2. SEM II
3. SEM III
4. SEM IV
5. SEM V
6. SEM VI

=====
```

This is o/p screen which shows fields when user choose “courses“.

Example : Here I've selected option one . i.e BCA

Screen 3:

```
=====
The BCA course structure is spread across six semsters in three years.Each semes
ter comprises of seven papers with a balance combination of theory and practical
The course continent is regular updated to keep peace chances in the business en
viornment

Total fees payable at the time of admission      : 32500
Fees per year                                    : 30000
Fees payable for each semester exam              : 3500 Apx.

Semester first contains following subjects

- APD
- C Pro
- BOS
- BM
- FIT
- C programming Practical
- MS Office

=====
```

This screen shows final output when you select any semester from provided courses .

Example : I've selected semester one in BCA Course .

➤ **Future implementation**

- ✚ We will implement other related courses too .
- ✚ We will be adding distance education department .
- ✚ We will implement upcoming event portion .
- ✚ We will implement staff information .
- ✚ We will add student's achievement .

➤ **Advantages of software**

- ✚ Gives information About college and University
- ✚ In depth information about courses .
- ✚ Grab attention .
- ✚ Social interaction .
- ✚ Majority of students kept informed about Akimss .

➤ **Disadvantages**

- ✚ Lack of design and low quality .
- ✚ No face-to-face interaction .
- ✚ No information updated regularly .

➤ Bibliography

- ✚ <https://www.geeksforgeeks.org/>
- ✚ Let us c by Yashwant Kanitkar .
- ✚ Switch case by Stephen Kleene .