

# **Guidelines for Preparation of Project Report for BCA Students**



**JHARKHAND**  
**Rai University**  
— R A N C H I —

## **INTRODUCTION**

The Project work constitutes a major component in most Professional Programmes. It needs to be carried out with due care, and should be executed with seriousness by the students. The project work is not only a partial fulfilment of the BCA requirements, but also provides a mechanism to demonstrate your skills, abilities and specialization. The Project work is one that involves practical work for understanding and solving problems in the field of computing. The objectives of the project is to help the student develop the ability to apply theoretical and practical tools/techniques to solve real life problems related to industry, academic institutions and research laboratories.

## **OBJECTIVES**

After going through this unit, student should be able to:

- demonstrate a systematic understanding of project contents;
- understand methodologies and professional way of documentation;
- know the meaning of different project contents, and
- understand established techniques of project report development.

## **IMPORTANCE OF THE PROJECT**

The Project is not only a part of the coursework, but also a mechanism to demonstrate student's abilities and specialization. It provides the opportunity for them to demonstrate originality, teamwork, inspiration, planning and organization in a software project, and to put into practice some of the techniques they have been taught throughout the previous courses. The Project is important for a number of reasons. It provides students with:

- Opportunity to specialize in specific areas of computer science;
- Future employers will most likely ask about project at interview;
- Opportunity to demonstrate a wide range of skills and knowledge learned, and
- Encourages integration of knowledge gained in the previous course units.

## **PROJECT: TABLE OF CONTENTS**

The project report should contain a full and coherent account of student's work. Although there will be an opportunity to present their work verbally, and demonstrate the software, the major

part of the assessment will be based on the written material in the project report. They can expect help and feedback from course coordinator. The Annexure I, Annexure II and Annexure III should be added in the Project Report. The suggestive structure of a project report should be as given below:

Title Page (Annexure I)

Certificate of Authenticated work (Annexure II)

Abstract

Acknowledgement (Annexure III)

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## **CHAPTER 1: INTRODUCTION**

1.1 Background

1.2 Objectives

1.3 Purpose, Scope, and Applicability

1.3.1 Purpose

1.3.2 Scope

1.3.3 Applicability

1.4 Achievements

1.5 Organization of Report

## **CHAPTER 2: SURVEY OF TECHNOLOGIES**

## **CHAPTER 3: REQUIREMENTS AND ANALYSIS**

3.1 Problem Definition

3.2 Requirements Specification

3.3 Planning and Scheduling

3.4 Software and Hardware Requirements

3.5 Preliminary Product Description

3.6 Conceptual Models

## **CHAPTER 4: SYSTEM DESIGN**

4.1 Basic Modules

## **CHAPTER 5: IMPLEMENTATION AND TESTING**

5.1 Implementation Approaches

5.2 Coding Details and Code Efficiency

5.3 Testing Approach

5.3.1 Unit Testing

5.3.2 Integrated Testing

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## **CHAPTER 6: RESULTS AND DISCUSSION**

6.1 Test Reports

6.2 User Documentation

## **CHAPTER 7: CONCLUSIONS**

7.1 Conclusion

7.2 Limitations of the System

7.3 Future Scope of the Project

## **BIBLIOGRAPHY**

- NOTE: Cover Page should be light pink in color and hard bound.
- Content should be in Times New Roman, font size-12, heading-14 Bold.
- Line spacing should be 1.5 px
- All the contents should be justified.



[TITLE OF PROJECT]

**Submitted by**

[STUDENT NAME] - [ENROLLMENT NUMBER]



**Under the guidance**

of

[GUIDE NAME]

**Submitted to**

The Faculty of Computer Science Engineering and Information Technology in partial  
fulfilment of the requirements for the award of the degree

**BACHELOR OF COMPUTER APPLICATION (BCA)**

[YEAR OF SUBMISSION]



### CERTIFICATE OF ORIGINALITY

This is to certify that the project report entitled .....  
submitted to **Jharkhand Rai University** in partial fulfilment of the requirement for the award  
of the degree of **BACHELOR OF COMPUTER APPLICATIONS (BCA)** is authentic and  
original work carried out by ..... with enrollment ..... under my guidance.

This matter embodied in this project is genuine work by the student and has not been submitted  
either to this university or to any other University or Institute for the fulfilment of the  
requirements of any course of study.

.....

Signature of Student

.....

Signature of Guide

.....

Signature of HOD

Faculty of CSE & IT

Jharkhand Rai University

.....

Signature of External

## ACKNOWLEDGEMENT

It gives me immense pleasure to express my deepest sense of gratitude and sincere thanks to my highly respected and esteemed guide ..... (*Name of guide with Dept. name*)..., (*Organization*), for his/her valuable guidance, encouragement and help for completing this work. His/her useful suggestions for this whole work and co-operative behavior are sincerely acknowledged. I would like to express my sincere thanks to *Name, Dean (Academics), JRU, Ranchi* for giving me this opportunity to undertake this project. I also wish to express my gratitude to *Coordinator (Computer Science & Information Technology), JRU, Ranchi* for her kind hearted support. I am also grateful to my faculty members for their constant support and guidance. I also wish to express my indebtedness to my parents as well as my family member whose blessings and support always helped me to face the challenges ahead. At the end I would like to express my sincere thanks to all my friends and others who helped me directly or indirectly during this project work.

Place:

Student Name

Date:

Enrolment no.

**SAMPLE PAGE**



**JHARKHAND**  
**Rai University**  
R A N C H I

## **ACCIDENT INDICATOR DEVICE**

Submitted By

**Group No- 5**



Under the Guidance

Of

**Dr. Kumar Amrendra**

Submitted to

The Department of Computer Science and Information Technology in partial  
fulfilment of the requirements for the award of the Degree

**BACHELOR OF COMPUTER APPLICATION (BCA)**

**2024**

## **CERTIFICATE OF ORIGINALITY**

This is to certify that the project report entitled “**Accident Indicator Device**” submitted to **Jharkhand Rai University** in partial fulfilment of the requirement for the award of the degree of **Bachelor of Computer Application (BCA)** is authentic and original work carried out by **Sonalika Gupta (BC/21/024)** and **Sonal Kumari (BC/21/011)** under my guidance.

The matter embodied in this project is genuine work done by the student and has never been submitted to this University or any other University Institute for the fulfilment of the requirements of any course of study.

.....  
**Signature of Student**

.....  
**Signature of Guide**

**Dr. Kumar Amrendra**

Assistant Professor,  
Department of Computer Science and  
Information Technology,  
Jharkhand Rai University, Ranchi

.....  
**Signature of HOD**

**Prof. Anuradha Sharma**

Assistant Professor,  
Department of Computer Science and  
Information Technology,  
Jharkhand Rai University, Ranchi

.....  
**Signature of External Examiner**

## ACKNOWLEDGEMENT

It gives me immense pleasure to express my deepest sense of gratitude and sincere thanks to our highly respected and esteemed guide **Dr. Kumar Amrendra, Assistant Professor, Department of Computer Science and Information Technology, Jharkhand Rai University, Ranchi**, for his valuable guidance, encouragement, and help for completing this work. His useful suggestions for this whole work and cooperative behavior are sincerely acknowledged. We would like to express our sincere thanks to **Dr. Piyush Ranjan, Dean (Academics), JRU, Ranchi** for giving us this opportunity to undertake this project. We also wish to express our gratitude to **Prof. Anuradha Sharma, Coordinator, Department of Computer Science & Information Technology, Jharkhand Rai University, Ranchi** for her kind hearted support. We are also grateful to our faculty members for their constant supports and guidance.

We also wish to express our indebtedness to our parents and family members whose blessings and support always helped us to face the challenges ahead. At the end, we would like to express our sincere thanks to all our friends and others who helped us directly or indirectly during this research project work.

Place: Ranchi

Date:

### Students Name

|                |           |
|----------------|-----------|
| Sonalika Gupta | BC/21/024 |
| Sonal Kumari   | BC/21/011 |

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