

# Final Year Thesis/Project Report Template

by

Student Name

Student ID

A thesis submitted to the Department of Computer Science and Engineering  
in partial fulfillment of the requirements for the degree of  
B.Sc. in Computer Science and Engineering

Department of Computer Science and Engineering

Brac University

Month Year.

# **Declaration**

It is hereby declared that

1. The thesis submitted is my/our own original work while completing degree at Brac University.
2. The thesis does not contain material previously published or written by a third party, except where this is appropriately cited through full and accurate referencing.
3. The thesis does not contain material which has been accepted, or submitted, for any other degree or diploma at a university or other institution.
4. We have acknowledged all main sources of help.

**Student's Full Name & Signature:**

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Student Name

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# **Approval**

The thesis/project titled “ ” submitted by

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of [Semester], [Year] has been accepted as satisfactory in partial fulfillment of the requirement for the degree of B.Sc. in Computer Science in [Current Semester] Year.

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Brac University

## **Ethics Statement (Optional)**

This is optional, if you don't have an ethics statement then omit this page

# **Abstract**

**Keywords:**

## **Dedication (Optional)**

A dedication is the expression of friendly connection or thanks by the author towards another person. It can occupy one or multiple lines depending on its importance. You can remove this page if you want.

## **Acknowledgement**

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# Chapter 1

## Introduction

### 1.1 Background

Review of literature and background study

**[In case of internship - Company Background]** Describe the company where you completed your internship. Include information such as the company's history, mission, vision, key products or services, and its position in the industry. Highlight any relevant details that provide context for the project or tasks you worked on.

### 1.2 Rational of the Study or Motivation

This section discusses the significance and relevance of the research gap and its impact.

### 1.3 Problem Statement

The problem statement should clearly define the specific issue your research addresses.

**[In case of internship]** Introduce the Product

### 1.4 Objective

Write a clear and concise statement outlining what your study aims to achieve. You can specify the focus of your research, the purpose or desired outcome

**[In case of internship]** Outline the main objectives of your project. These should be derived from stakeholders' feedback and reflect what you aimed to achieve during your internship. Objectives should be specific, measurable, achievable, relevant, and time-bound (SMART).

## **1.5 Methodology in Brief**

This section provides a concise overview of how the study was conducted. State the research approach, data collection, analysis, etc.

## **1.6 Scopes and Challenges**

Briefly outline the boundaries of your study and any constraints.

## **1.7 Team Overview**

[In case of internship]

Write about your group and your role in that team.

## **1.8 Key Learnings and Insights**

[In case of internship]

This section can be used to introduce the team members involved in the internship project, highlighting their roles, contributions, and any collaborative efforts. It provides context on the team dynamics and how each member contributed to the overall success of the project.

# **Chapter 2**

## **Literature Review**

### **2.1 Preliminaries**

This section provides essential background information that readers need to understand your study. You can include information about theories, definitions, concepts, models, etc.

### **2.2 Review of Existing Research**

Perform a literature survey and find relevant materials and information.

### **2.3 Summary of Key Findings**

Discuss key results, patterns or trends, and implications.

# **Chapter 3**

## **Requirements, Impacts and Constraints**

### **3.1 Final Specifications and Requirements**

This section discusses technical or methodological Requirements, data or resource requirements (software), etc.

### **3.2 Societal Impact**

Study and report on project impact on society, health, safety, legal, and cultural aspects.

### **3.3 Environmental Impact**

Study and report on project sustainability and environmental impact.

### **3.4 Ethical Issues**

Identify ethical issues and professional responsibilities related to the design solution.

### **3.5 Standards - if applicable**

Write about any standard maintained.

### **3.6 Project Management Plan**

Prepare a project management plan including schedule, budget, and resource management.

### **3.7 Risk Management**

Identify project risks and mitigation strategies.

### **3.8 Economic Analysis**

Conduct economic analysis and cost-benefit estimation.

# **Chapter 4**

## **Proposed Methodology**

### **4.1 Design Process or Methodology Overview**

Prepare design process based on objectives and constraints.

### **4.2 Preliminary Design or Design (Model) Specification**

Present multiple alternative solutions and perform simulations for verification.

### **4.3 Data Collection -(If Applicable)**

Sources of data and methods of collection.

#### **4.3.1 Data Cleaning**

Techniques used to handle missing values, outliers, and inconsistencies.

#### **4.3.2 Data Transformation**

Methods of normalizing, scaling, or encoding data.

#### **4.3.3 Data Integration**

Combining data from different sources if applicable.

#### **4.3.4 Data Reduction**

Techniques for reducing dimensionality or selecting relevant features.

#### **4.3.5 Summary of Preprocessed Data**

Description of the final dataset used for analysis and design.

## **4.4 Implementation of Selected Design**

Describe the implementation process.

# Chapter 5

## Result Analysis

### 5.1 Performance Evaluation

This section discusses **evaluation criteria**: key metrics or criteria -accuracy, efficiency, reliability, **Testing Methods**

### 5.2 Analysis of Design Solutions

Description of solutions, evaluation criteria - accuracy, efficiency, feasibility, cost, performance, strengths and weaknesses.

### 5.3 Final Design Adjustments

Make necessary adjustments to the design based on performance evaluation.

### 5.4 Statistical Analysis

Mention the specific statistical tests or techniques applied

### 5.5 Comparisons and Relationships

In this section, compare different approaches, compare with existing works, solutions, or results, and analyze their relative effectiveness.

### 5.6 Discussions

Write about the interpretation, implications, and limitations of the results.

# **Chapter 6**

## **Conclusion**

**6.1 Summary of Findings**

**6.2 Contributions to the Field**

**6.3 Recommendations for Future Work**