

Project Report
on

Packaging Management System

Submitted

In Partial Fulfillment of

BACHELOR OF COMPUTER APPLICATIONS (BCA)

Submitted by:

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Under the Supervision of:

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Annexure 2

Declaration

I do hereby declare that this project work entitled “___Packaging Management System_____” submitted by me for the partial fulfillment of the requirement for the award of **MASTER OF COMPUTER APPLICATIONS** is a record of my own work. The report embodies the finding based on my study and observation and has not been submitted earlier for the award of any degree or diploma to any Institute or University.

SIGNATURE

Name: Prince Kumar

Roll No: 23/SCA/BCA/037

Date: 17/07/2025

Certificate from the Guide

This is to certify that the project report entitled “____Packaging Management System_____-
_____” submitted in partial fulfillment of the degree of **Bachelor OF
COMPUTER APPLICATIONS** to Manav Rachna International Institute of Research and Studies,
Faridabad is carried out by Mr./ Ms. __Prince Kumar_____(Roll No),
_23/SCA/BCA/037_____ under my guidance.

Signature of the Guide

Name: Dr.Arvind Kumar

Date: 17/07/2025

Head of Department

Name:Dr.Sohail Javed Quraishi

Date: 17/07/2025

ACKNOWLEDGEMENT

I gratefully acknowledge for the assistance, cooperation, guidance and clarification provided by Ms./Mr. Harshit Thakur_____ during the development of _Packaging Management System_____. My extreme gratitude to **Dr. Raj Kumar, Associate Professor & TPO** who guided us throughout the project. Without his willing disposition, spirit accommodation, frankness, timely clarification and above all faith in us, this project could not have been completed in due time. His readiness to discuss all important matters at work deserves special attention of.

I would like to extend my sincere gratitude to **Prof. (Dr.) Suhail Javed Quraishi – HOD, Prof. (Dr.) Rashmi Agrawal – Associate Dean and Prof. (Dr.) Brijesh Kumar – Dean** for their valuable teachings and advice. I want to thank all the department faculty members for their cooperation and support. I want to thank non-teaching staff of the department for their cooperation and support.

This opportunity is a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, to attain desired career objectives. I hope to continue cooperation with all of you in the future.

I. Introduction

(a) About Organization

The Packaging Management System project is developed as a self-initiated academic solution to simulate real-time packaging inventory management for logistics and e-commerce companies. It helps users manage packaging records, track client-wise orders, and calculate packaging costs.

(b) Aims & Objectives

To automate the package entry and calculation system

To reduce manual errors in billing

To enhance client-wise tracking of packaging data

To provide a user-friendly interface for packaging operations

(c) Manpower

This project was developed individually by the student under the guidance of the project supervisor.

VII. System Study

a) Existing System

Manual systems or spreadsheets are commonly used for packaging records, leading to time delays, human error, and poor data tracking.

b) Proposed System

The proposed system is a modern, web-based platform using HTML, CSS, and JavaScript. It ensures real-time data entry, calculation of cost, and visual tracking of all packaging activity.

VIII. Feasibility Study

a) Technical Feasibility

Built using HTML, CSS, and JavaScript — which are universally supported technologies — no specialized software is required.

b) Behavioural Feasibility

Designed with a clean and responsive UI, the system can be used easily by any non-technical staff.

c) Economic Feasibility

The system is developed using open-source tools. No license or hardware purchase is needed.

IX. Project Monitoring System

a) Gantt Chart

Week	Activity
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1	Requirement Gathering
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2	UI/UX Design
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3	Frontend Development
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4	Testing & Debugging
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5	Documentation
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X. System Analysis

a) Requirement Specification

Modern browser (Chrome/Firefox)

Internet connection

HTML, CSS, JavaScript

b) System Flowchart

Input → Process → Output

User enters package details → Validated & stored → Displayed in list with cost

c) DFD Level 1

User → Input Form → Package Processor → Display Table → Cost Summary

XI. System Design

a) File/Data Design

Data is handled in a JavaScript array. Each object includes:

clientName, weight, size, type, cost

XII. Input/Output Form Design

a) Screen Design

b) Report Design

The system automatically shows a table with:

Client | Weight | Size | Type | Cost | Action

XIII. System Testing

a) Test Data

Sample entries like:

Client: Ayush, Weight: 10kg, Size: 20cm, Price/kg: ₹20

b) Live Data Testing

System was tested with valid/invalid entries, multiple combinations, delete functions.

c) Test Cases

Client	Weight	Size	Price/kg	Expected Cost	Result
Ayush	10kg	20cm	₹20	₹200.00	Pass
Raj	5kg	15cm	₹30	₹150.00	Pass

XIV. System Implementation

Hardware: Laptop or Mobile

Software: Chrome/Firefox Browser

Languages Used: HTML, CSS, JavaScript

XV. Documentation

Code is structured and documented with comments. This report serves as the complete development guide.

XVI. Scope of the Project

This can be upgraded into a full warehouse management tool with login system, invoice printing, and data export features.

XVII. Bibliography

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