

Project Report

EMPLOYEE PAYROLL MANAGEMENT SYSTEM

(CLI-Based Application using Java, JDBC & MySQL)

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Project Title:

EMPLOYEE PAYROLL MANAGEMENT System (CLI-Based)

Course: ITPR – Java & Database Training

Project Category: Database Management & Application Development

Guided By: Mr. Anuj Kumar

Submitted By: (Student Details)

- Name: Gaurav Pal
- Course :B. Tech (CSE)
- AFID: AF049911811
- Batch Code: ANP-D2405
- Institution: Anudip Foundation
- Course Code : ITPR
- Session: 2025-2026

CERTIFICATE

This is to certify that the project titled **Employee Payroll Management System using Java, JDBC, and MySQL** has been successfully completed by the student as part of the academic curriculum in training. The work carried out is original and fulfils the project requirements.

Trainer's Signature

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to my guide Mr. Anuj Sir for their valuable guidance and support throughout the development of this project. I am also thankful to organization (Anudip Foundation) for providing the required resources.

ABSTRACT

The Employee Payroll Management System is a console-based application developed using Java, JDBC, and MySQL and CLI project designed to automate payroll processing in an organization. The system manages employee details, attendance, salary calculation, tax, bonus and generates payroll reports. The project reduces manual workload and improves accuracy and efficiency.

INTRODUCTION

Payroll management is a critical function of any organization. Manual payroll systems are prone to errors and inefficiencies. This project aims to provide an automated payroll solution using Java and MySQL, ensuring accuracy, data security, and ease of management.

OBJECTIVES

1. Automate payroll calculations
2. Manage employee records efficiently
3. Track attendance and apply deductions
4. Calculate tax and bonuses
5. Generate payroll reports

SYSTEM MODULES

Employee Management Module: Stores employee personal and salary details.

Attendance Management Module: Tracks employee attendance for payroll processing.

Payroll Calculation Module: Calculates gross salary, deductions, and net salary.

Tax & Bonus Module: Applies predefined tax and bonus rules.

Reporting Module: Generates payroll reports and payslips through console output.

TECHNOLOGY STACK

Technology	Description
Programming Language:	Java
IDE:	Eclipse / IntelliJ IDEA
Platform:	Windows / Linux
Java :	Core application logic
JDBC:	Database connectivity
MySQL:	Relational database
GitHub:	Version control

HARDWARE & SOFTWARE REQUIREMENTS

Hardware:

- Intel i3 or higher processor
- Minimum 4GB RAM
- 500GB Hard Disk

Software:

- Windows / Linux OS
- JDK 8 or higher
- MySQL Server

FUTURE SCOPE

- Web-based payroll system
- Employee self-service portal
- Advanced reporting and analytics
- Integration with accounting systems

CONCLUSION

The Employee Payroll Management System successfully automates payroll operations and demonstrates effective use of Java and MySQL. The project fulfils academic requirements and provides a strong foundation for future enhancements.

BIBLIOGRAPHY

1. Java Documentation – Oracle
2. MySQL Documentation
3. GeeksforGeeks – Java & JDBC