Major Project Report

Project Title: College Admission Management System

Submitted by: Yuvasri S
College: JJ College of Engineering and Technology
Department: Information Technology

Under the Guidance of: Project Supervisor, Department of IT

College Admission Management System (Java + JDBC + MySQL)

Abstract: The College Admission Management System is a Java-based desktop application that automates student registration, course allocation, and merit list generation. It simplifies the admission process by integrating Java, JDBC, and MySQL, ensuring accuracy and efficiency.

Introduction: The project replaces manual admission procedures with an automated digital solution. It stores student information in a database, calculates merit automatically, and allows administrators to approve admissions. The GUI version provides a user-friendly interface for managing data and generating reports.

Tools Used: Java (JDK 17), JDBC, MySQL, Eclipse IDE, MySQL Connector/J

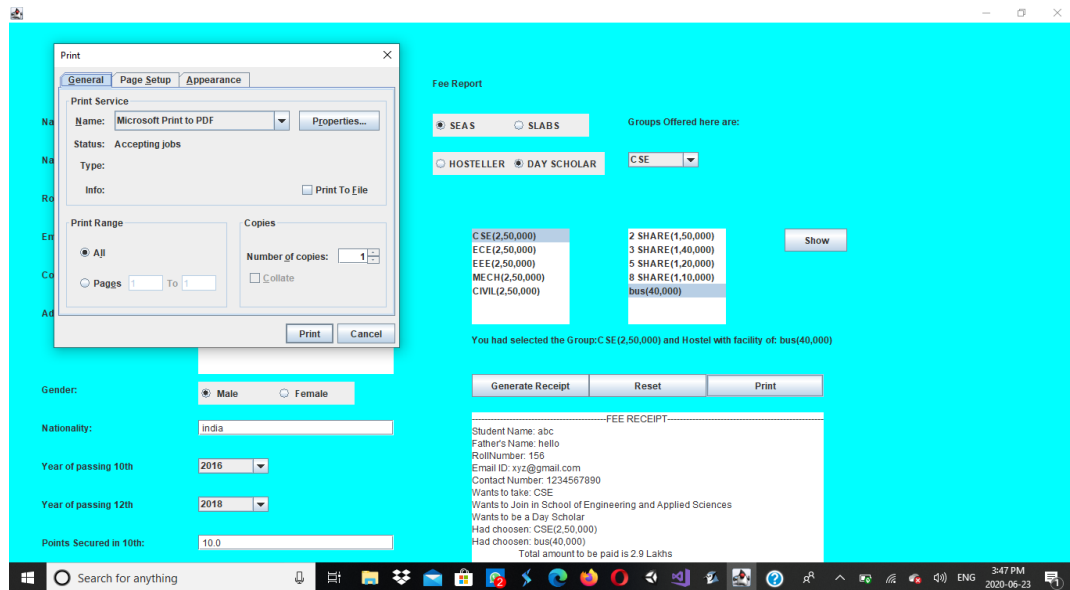## Steps Involved in Building the Project:

1. Designed MySQL database with tables: Students, Courses, Applications.
2. Developed student registration form using Java Swing.
3. Connected Java program to MySQL using JDBC driver.
4. Implemented logic for merit calculation and course allocation based on marks.
5. Added admin functionality for approving or rejecting applications.
6. Generated final admission list and printable receipts using Java I/O.

Java Code Example:

```java
import java.sql.*;
import javax.swing.*;

public class CollegeAdmission {
  public static void main(String[] args) {
    try {
      Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/college_db",
"root", "password");
      Statement stmt = con.createStatement();
      ResultSet rs = stmt.executeQuery("SELECT * FROM students");
      while (rs.next()) {
        System.out.println(rs.getInt(1) + " " + rs.getString(2) + " " +
rs.getInt(3));
      }
      con.close();
    } catch (Exception e) {
      System.out.println(e);
    }
  }
}
```

Output Screenshot:

Conclusion: The College Admission Management System effectively automates admission-related tasks, minimizes errors, and improves efficiency. It demonstrates strong integration between Java and MySQL and provides a robust GUI for data management.