# College Admission Management System – User Guide

## 1. Introduction

The College Admission Management System automates the admission process, making it efficient, reliable, and user-friendly. It allows administrators to manage student registrations, course allocations, application processing, and merit list generation in PDF format.

## 2. Pre-requisites

- **Java Development Kit (JDK 17 or above)**

- **MySQL Server**

- **Maven** (for building the project)

- **IDE**: IntelliJ IDEA or any Java IDE

- **Libraries**: Apache PDFBox (included in Maven dependencies)

## 3. Setup Instructions

### Step 1: Database Setup

1. Open **MySQL Workbench**.

2. Execute the schema.sql file to create the database and tables:
   - students
   - courses
   - applications

3. Note the **database name, username, and password** for configuration.

### Step 2: Project Configuration

1. Open the project in **IntelliJ IDEA**.

2. Configure the config.properties file with your database details:

db.url=jdbc:mysql://localhost:3308/college_admission

db.user=root

db.password=My@12345

### Step 3: Build Project

1. Open a terminal in the project root directory.

2. Run Maven to build the project: mvn clean compile

## 4. Running the Application

1. Run AdminPanel.java from the project.

2. The **Admin Panel GUI** opens.

**Admin Panel Features**

- **Add Students**: Enter Name, Email, Phone, and Percentage.

- **Add Courses**: Enter Course Code, Name, and Cut-off Marks.

- **Submit Applications**: Link students to courses.

- **Generate Merit List PDF**: Produces a PDF showing Course, Student, Percentage, and Rank.

## 5. Output

- **Merit List PDF**: Saved in the project directory as "MeritList_course_" + courseId + ".pdf"

## 6. Notes

- Ensure the **database is running** before launching the application.

- Merit lists are generated **based on student percentage and course cut-off**.

- The current system **does not include online payment or student portal**.