# Dance Studio Management App

Java Web Apps - Masters Degree Project

Student: **BULACEANU ALEXANDRA-IRINA**

Group: 406, IS

Teacher: Baicoianu Daniela

## Overview

The application aims to take care of the management of a dance studio.

The aim is to provide an app that can take care of the activities required by a dance studio, which implies:

* Dance Class Booking and Reservation system
* Database search system
* Instructors and students management
* Dance classes management

I use a MySQL database and there are 8 entities stored there, with multiple relationships between them, as described in the database schema presented in the document.

Entities:

* instructors
* classes
* students
* classes\_reservations
* classes\_schedule
* ticket\_reservations
* studios

Important Relationships:

* M:M between instructors and classes
* M:M between students and reservations
* a class can be scheduled in one studio at a time and one studio can host one class at a time
* a reservation can be done for more classes

Swagger Doc link: <http://localhost:8095/swagger-ui/index.html>

Postman collection can be found in the github repo.

Github Repo: <https://github.com/AlexandraBulaceanu/DanceManagementAppSpring>

App Features

* instructors management:

1. hire an instructor
2. get all instructors
3. edit details of a instructor
4. delete an instructor

* dance classes management:

1. add a new dance class
2. delete a dance class
3. edit a dance class
4. schedule a dance class
5. find a dance class

* reservations management

1. a student is allowed to book on or more dance classes for which he receives tickets
2. price calculation of the reservation made
3. availability announcement in terms of studio capacity

* students management

1. enroll new students in the dance academy
2. search students based on specific criteria
3. CRUD operations

* studios management

1. add new dance studios in the system
2. make them available for class scheduling and for class booking
3. remove a studio
4. edit studio data

Other implementation details:

* custom exceptions used
* constants class used
* validations for data before allowing it to be stored in the database
* tests

### Dance Studio Management App Database Schema

