## 4.1 Actors

**Director**

Director is the main actor of dance studio management system. They can use their personal account to view the performance and training records, and modify the artist and performance data. They can enter and store the statistics and personal information of the artist, and update attendance of performance and also perform other club activities.

**Coach**

Coach is another main actor of dance studio management system. They can use their personal account to view the performance and training records, and modify the training data. They can view the personal information of the artist, and update attendance and injury records of training and also perform other club activities.

**Artist**

Artist can not access the dance studio management website. They can only access another website to view their personal, performance, and training information.

## 4.2 Modules

**User Management Module**

The user management module contains roles assignment, account registration, login, password modification, and recover password with one-time password. This module must ensure security by validating all input fields and encrypting the password using a hashing algorithm.

**Data Entry Module**

The data entry module contains uploading and modifying artist records, performance records, training records, attendance statistics, and complete injured reports. This module should protect against the Cross-Site Script (XSS) attack and reasonably distribute duties for directors and coaches.

**Security Audit Module**

The security audit module contains operation log recording, abnormal behaviour detection, and compliance checking (GDPR). The log documents must be tamper-proof and the system must generate compliance reports regularly.

**Report generation module**

The report generation module contains performance data statistics, training data statistics, and attendance rate visualization. The reports must anonymize data by hiding the name and ID.

**Notification and communication module**

The notification and communication module contains SMS and email reminders, guardian confirmation requests, and system maintenance notifications. The communication content must be encrypted, and sensitive information must be shielded, such as replacing the mobile phone number with \*\*.