1. 用户表(user)
2. 管理员(Admin)
3. 用户个人信息表（profile）
4. 认证信息表(authen)
5. 认证图片表(image)
6. 建筑表(building)
7. 场地表(room)
8. 场地使用申请表(application)
9. 活动信息表(activity)
10. 入场券表(ticket)
11. 一级评论(comment)
12. 二级评论(reply)
13. 公告表(notice)
14. 用户行为记录表(actions)
15. 弹幕信息表(barrage)
16. 系统通知表(sysinform)
17. 回复通知表(comminform)

**用户表(user)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| user\_id | Int |  | Not | Yes |  | 主键 |
| user\_email | Varchar | 50 | Not  unique |  |  | Email |
| user\_pwd | Varchar | 50 | Not |  |  | 密码 |
| user\_name | Varchar | 50 | Not |  |  | 用户名 |

Create table tb\_user (

user\_id int primary key auto\_increment,

username varchar(50) not null,

email VARCHAR(50) not null UNIQUE,

password varchar(50) not null

)

**管理员(Admin)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| admin\_id | Int |  | Not | Yes |  | 主键 |
| email | Varchar | 50 | Not  unique |  |  | Email |
| password | Varchar | 50 | Not |  |  | 密码 |
| name | Varchar | 50 | Not |  |  | 用户名 |

**用户个人信息表（profile）**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| pf\_id | Int |  | Not null | yes |  | 主键 |
| Pf\_phone | Varchar | 11 |  |  |  | 手机号 |
| Pf\_birth | date |  |  |  |  | 生日 |
| Pf\_ avatar | Varchar | 255 |  |  |  | 头像 |
| Pf\_qq | Varchar | 50 |  |  |  | QQ |
| Pf\_sex | char | 1 |  |  |  | 性别 |
| Pf\_realname | Varchar | 30 |  |  |  | 真实姓名 |
| Pf\_isActive | tinyint | 1 | Not |  |  | 是否已激活 |
| User\_id | int |  | Not unique |  | Tb\_user.user\_id | 一对一关系 |

Create table tb\_profile (

pf\_id int primary key auto\_increment,

pf\_phone Varchar(11) ,

pf\_birth date,

pf\_ avatar Varchar(255)，

pf\_qq Varchar(50)，

pf\_sex char，

pf\_realname Varchar(30)，

pf\_is\_active tinyint(1)，

user\_id int not null unique,

constraint user\_pf\_fk foreign key(user\_id) references tb\_user(user\_id)

)

**认证信息表(authen)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| inf\_id | Int |  | Not | Yes |  | 主键 |
| inf\_type | Tinyint |  | Not |  |  | 类型 |
| inf\_name | Varchar | 50 | not |  |  | 名称 |
| inf\_introduce | Text |  |  |  |  | 简介 |
| inf\_time | Timestamp |  | Not  default |  |  | 申请时间 |
| inf\_status | Tinyint | 1 | Not  default |  |  | 是否已通过 |
| inf\_is\_deal | Tinyint | 1 | Not  Default |  |  | 是否已处理 |
| user\_id | Int |  | Not |  | Tb\_user.user\_id | 用户 |

Create table tb\_authentication (

inf\_id int primary key auto\_increment,

inf\_type tinyint not null,

inf\_name VARCHAR(50) not null,

inf\_introduce text,

inf\_time timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP ,

user\_id int,

inf\_status TINYINT(1) not null DEFAULT 1,

inf\_is\_dealed TINYINT(1) not null DEFAULT 1,

constraint user\_auth\_fk foreign key(user\_id) references tb\_user(user\_id)

)

**认证图片表(image)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| img\_id | Int |  | Not | Yes |  | 主键 |
| img\_path | Varchar | 255 | Not |  |  | 存储路径 |
| inf\_id | Int |  | Not |  | Tb\_authentication.inf\_id | 所属的认证 |

Create table tb\_image (

img\_id int primary key auto\_increment,

img\_path varchar(255) not null,

inf\_id int not null,

constraint inf\_img\_fk foreign key(inf\_id) references tb\_authentication(inf\_id)

)

**建筑表(building)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| bui\_id | Int |  | Not | Yes |  | 主键 |
| bui\_name | Varchar | 50 | Not |  |  | 名称 |
| bui\_introduce | Text |  |  |  |  | 简介 |
| bui\_type | Tinyint |  | Not |  |  | 类型 |

Create table tb\_building (

bui\_id int primary key auto\_increment,

bui\_name varchar(50) not null,

bui\_introduce text,

bui\_type TINYINT not null

)

**场地表(room)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| room\_id | Int |  | Not | Yes |  | 主键 |
| room\_number | Int |  | Not |  |  | 门牌编号 |
| room\_capacity | Int |  | Not |  |  | 座位容量 |
| bui\_id | Int |  | Not |  | Tb\_building.bui\_id | 所属的建筑 |

Create table tb\_room (

room\_id int primary key auto\_increment,

room\_number int not null,

room\_capacity int not null,

bui\_id int not null,

CONSTRAINT room\_building\_fk FOREIGN key(bui\_id) REFERENCES tb\_building(bui\_id)

)

**场地使用申请表(application)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| app\_id | Int |  | Not | Yes |  | 主键 |
| app\_info | Text |  | Not |  |  | 申请介绍 |
| app\_time | Datetime |  | Not |  |  | 申请时间 |
| app\_start\_time | Datetime |  | Not |  |  | 开始时间 |
| app\_end\_time | Datetime |  | Not |  |  | 结束时间 |
| app\_status | Tinyint | 1 | Not |  |  | 是否已通过 |
| room\_id | Int |  | Not |  |  | 申请场地 |
| app\_is\_dealed | Tinyint | 1 | Not |  |  | 是否已处理 |
| user\_id | Int |  | Not |  |  | 申请用户 |

Create table tb\_application (

app\_id int primary key auto\_increment,

app\_info text not null,

app\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

app\_start\_time datetime not null,

app\_end\_time datetime not null,

app\_status tinyint(1) not null DEFAULT 1,

app\_is\_dealed tinyint(1) not null DEFAULT 1,

room\_id int not null,

user\_id int not null,

CONSTRAINT room\_app\_fk FOREIGN key(room\_id) REFERENCES tb\_room(room\_id),

CONSTRAINT user\_app\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id)

)

**活动信息表(activity)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| act\_id | Int |  | Not | Yes |  | 主键 |
| act\_title | Varchar | 255 | Not |  |  | 活动标题 |
| act\_introduce | text |  |  |  |  | 活动简介 |
| act\_start\_time | datetime |  | Not |  |  | 开始时间 |
| act\_end\_time | datetime |  | not |  |  | 结束时间 |
| act\_img\_path | varchar | 255 | Not |  |  | 图片路径 |
| act\_ticket | int |  | Not  default |  |  | 入场券数量 |
| act\_detail | text |  |  |  |  | 活动详情 |
| Act\_add\_time | TIMESTAMP |  | Not  default |  |  | 添加时间 |
| room\_id | Int |  | not |  | Tb\_room.room\_id | 举办场地 |

Create table tb\_activity (

act\_id int primary key auto\_increment,

act\_title varchar(255) not null,

act\_introduce text,

act\_start\_time datetime not null,

act\_end\_time datetime not null,

act\_img\_path varchar(255),

act\_ticket int not null DEFAULT 0,

act\_detail text,

act\_add\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

room\_id int not null,

CONSTRAINT room\_act\_fk FOREIGN key(room\_id) REFERENCES tb\_room(room\_id)

)

**入场券表(ticket)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| ticket\_id | Int |  | Not | Yes |  | 主键 |
| ticket\_time | TIMESTAMP |  | Not  default |  |  | 报名时间 |
| act\_id | int |  | not |  | Tb\_activity.act\_id | 所属活动 |
| user\_id | int |  | not |  | Tb\_user.user\_id | 所属用户 |

Create table tb\_ticket (

ticket\_id int primary key auto\_increment,

ticket\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

act\_id int not null,

user\_id int not null,

CONSTRAINT ticket\_act\_fk FOREIGN key(act\_id) REFERENCES tb\_activity(act\_id),

CONSTRAINT ticket\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id)

)

**一级评论(comment)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| comment\_id | Int |  | Not | Yes |  | 主键 |
| comment\_content | tinytext |  | not |  |  | 评论内容 |
| comment\_time | TIMESTAMP |  | Not  default |  |  | 评论时间 |
| user\_id | int |  | not |  | Tb\_user.user\_id | 所属用户 |
| act\_id | int |  | not |  | Tb\_activity.act\_id | 所属活动 |

Create table tb\_comment (

comment\_id int primary key auto\_increment,

comment\_content tinytext not null,

comment\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

act\_id int not null,

user\_id int not null,

CONSTRAINT comm\_act\_fk FOREIGN key(act\_id) REFERENCES tb\_activity(act\_id),

CONSTRAINT comm\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id)

)

**二级评论(reply)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| reply\_id | Int |  | Not | Yes |  | 主键 |
| reply\_content | tinytext |  | not |  |  | 回复内容 |
| reply\_time | TIMESTAMP |  | Not  default |  |  | 评论时间 |
| comment\_id | int |  | not |  | Tb\_user.user\_id | 所属用户 |
| user\_id | int |  | not |  | Tb\_activity.act\_id | 所属活动 |

Create table tb\_reply (

reply\_id int primary key auto\_increment,

reply\_content tinytext not null,

reply\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

comment\_id int not null,

user\_id int not null,

CONSTRAINT reply\_comm\_fk FOREIGN key(comment\_id) REFERENCES tb\_comment(comment\_id),

CONSTRAINT reply\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id)

)

**公告表(notice)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| notice\_id | Int |  | Not | Yes |  | 主键 |
| notice\_title | varchar | 255 | not |  |  | 标题 |
| notice\_content | tinytext |  | not |  |  | 内容 |
| notice\_time | TIMESTAMP |  | Not  default |  |  | 添加时间 |

Create table tb\_notice (

notice\_id int primary key auto\_increment,

notice\_title varchar(255) not null,

notice\_content tinytext not null,

notice\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP

)

**用户行为记录表(actions)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| action\_id | Int |  | Not | Yes |  | 主键 |
| action\_name | varchar | 255 | not |  |  | 行为名称 |
| Action\_ip | varchar | 32 | not |  |  | Ip地址 |
| action\_time | TIMESTAMP |  | Not  default |  |  | 时间 |
| User\_id | int |  | not |  | Tb\_user.user\_id | 用户 |

Create table tb\_action (

action\_id int primary key auto\_increment,

action\_name varchar(255) not null,

action\_ip varchar(32),

action\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

user\_id int not null,

CONSTRAINT action\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id)

)

**弹幕信息表(barrage)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| barr\_id | Int |  | Not | Yes |  | 主键 |
| barr\_info | varchar | 255 | Not |  |  | 内容 |
| barr\_time | TIMESTAMP |  | Not  default |  |  | 发布时间 |
| user\_id | int |  | not |  | Tb\_user.user\_id | 用户 |
| Act\_id | int |  | not |  | Tb\_activity.act\_id | 所属活动 |

Create table tb\_barrage (

barr\_id int primary key auto\_increment,

barr\_info varchar(255) not null,

barr\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

user\_id int not null,

act\_id int not null,

CONSTRAINT barr\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id),

CONSTRAINT barr\_act\_fk FOREIGN key(act\_id) REFERENCES tb\_activity(act\_id)

)

**系统通知表(sysinform)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| sysinform\_id | Int |  | Not | Yes |  | 主键 |
| sysinform\_info | varchar | 255 | Not |  |  | 通知内容 |
| sysinform\_time | TIMESTAMP |  | Not  default |  |  | 时间 |
| is\_readed | tinyint | 1 | Not  default |  |  | 是否已读 |
| user\_id | int |  | not |  | Tb\_user.user\_id | 用户 |

Create table tb\_sysinform (

sysinform\_id int primary key auto\_increment,

sysinform\_info varchar(255) not null,

sysinform\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

user\_id int not null,

is\_readed tinyint not null,

CONSTRAINT sysinf\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id)

)

**回复通知表(comminform)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 字段名称 | 字段类型 | 字段长度 | 为空 | 主键 | 参考外键 | 注释 |
| comminform\_id | Int |  | Not | Yes |  | 主键 |
| comminform\_time | TIMESTAMP |  | Not  default |  |  | 时间 |
| is\_readed | tinyint | 1 | Not  default |  |  | 是否已读 |
| Comm\_id | int |  | not |  | Tb\_comment.comment\_id | 所属评论 |
| user\_id | int |  | not |  | Tb\_user.user\_id | 所属用户 |

Create table tb\_ comminform (

comminform\_id int primary key auto\_increment,

comminform\_time TIMESTAMP not null DEFAULT CURRENT\_TIMESTAMP,

comment\_id int not null,

user\_id int not null,

is\_readed tinyint not null,

CONSTRAINT comminf\_user\_fk FOREIGN key(user\_id) REFERENCES tb\_user(user\_id),

CONSTRAINT comminf\_comm\_fk FOREIGN key(comment\_id) REFERENCES tb\_comment(comment\_id)

)