**1..\***

Class

Room

Session

Subject

**1..1**

**\*..1**

**1..1**

**\*..1**

**\*..1**

**\*..1**

Block

Department

Grade

Section

Student

Teacher

School

**\*..1**

**\*..1**

**\*..1**

**\*..1**

**1..\***

**1..\***

**1..\***

**1..\***

User RBAC

*(library)*

**1..1**

**1..1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table 1: Entity Table** | | | | |
| **School** | **Block** | **Grade** | **Department** | **Teacher** |
| ***Id<UUID, PK>***  *Name<String, not null>*  *Type<Enum, not null>*  *GPSLocation<Location, unique>*  *Geofence<Geofence>*  *Address<Address, not null>* | ***Id<UUID, PK>***  ***School ID<UUID, FK>***  *Name<String, not null>*  *Description<String>* | ***Id<UUID, PK>***  ***School ID<UUID, FK>***  *Name<Enum, not null>*  *Description<String>* | ***Id<UUID, PK>***  ***School ID<UUID, FK>***  *Name<Enum, not null>*  *Description<String>* | ***Id<UUID, PK>***  ***School ID<UUID, FK>***  ***User ID<UUID, FK>***  *First Name<String, not null>*  *Middle Name<String, not null>*  *Last Name<String, not Null>*  *Gender<Enum, not null>*  *Other Details* |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 2: Entity Table** | | | | | |
| **Section** | **Student** | **Subject** | **Class** | **Room** |
| ***Id<UUID, PK>***  ***Department ID<UUID, FK>***  *Name<Enum, not null>* | ***Id<UUID, PK>***  ***School ID<UUID, FK>***  ***Grade ID<UUID, FK>***  ***Class ID<UUID, FK>***  ***USER ID<UUID, FK>***  *First Name<String, not null>*  *Middle Name<String, not null>*  *Last Name<String, not null>*  *Gender<Enum, not null>* | ***Id<UUID, PK>***  ***Section ID<UUID, FK>***  ***Grade Id<UUID, FK>***  *Name<Enum, not null>*  *Description<String>* | ***Id<UUID, PK>***  ***Room ID<UUID, FK>***  *Name<String, not null>*  *Description<String>* | ***Id<UUID, PK>***  ***Block ID<UUID, FK>***  *Name<String, not null>*  *Description<String, not null>* |