XXX Project

Version: 0.0.2

Database Design Document

April 2018

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 2018/4/25 | 0.0.1 |  | Jack |
| 2018/4/26 | 0.0.2 |  | Jack |
|  |  |  |  |

1. **Introduction**
   1. **Purpose**
   2. **Backgound**
2. **Architecture Design**
   1. **Surroundings**
3. **Database Design**
   1. **Entity-relationship diagram**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | resource | | | |  | | |  | | | |
| **Desc** |  | | | | **Name** | | | tbl\_resources\_ext | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** | **Desc** | | |  | | | |
| 1 | id | varchar(200) | No | guid |
|  | description | varchar(4000) | Yes |  |
|  | name | varchar(255) | No | name |
|  | status\_id | int(11) | No | Default(1) 1:available, 0:unavailable |
|  | min\_duration | int(11) | Yes | 最小间隔时间，单位：分钟 |
|  | max\_duration | int(11) | Yes | 最大间隔时间，单位：分钟 |
|  | min\_increment | int(11) | Yes | 最小增长时间，单位：分钟 |
|  | unit\_cost | decimal(7,2) | Yes | 每一个increment的单价 |
|  | last\_modified | datetime | Yes |  | 4 | tenantid | bigint(20) | | No | Default(0) |
|  | business\_id | bigint(20) | No |  | 5 | recordversion | bigint(20) | | No | Default(0) |
|  | date\_created | datetime | No | Default(datetime.now) | 7 | creator | varchar(255) | | Yes |  |
|  | creator\_id | bigint(20) | No |  | 8 | creatorid | bigint(20) | | No |  |
|  | schedule\_id | varchar(200) | No |  | 9 | description | varchar(4000) | | Yes |  |
|  | type\_id | varchar(200) |  |  | 10 | name | varchar(255) | | No | name |
|  | image\_url | varchar(256) |  |  |  |  |  | |  |  |
|  | sort\_order | tinyint(2) unsigned |  |  |  |  |  | |  |  |
|  | buffer\_time | int(10) unsigned |  |  |  |  |  | |  |  |
|  | location |  |  |  | 11 | templateid | varchar(255) | | Yes |  |

SQL Code:

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-- Table `resource`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `resource` (

`id` VARCHAR(200) NOT NULL,

`name` VARCHAR(255) NOT NULL,

`description` VARCHAR(4000) NULL DEFAULT NULL,

`set\_id` BIGINT(20) NULL DEFAULT NULL,

`status\_id` INT(11) UNSIGNED NOT NULL DEFAULT '1',

`min\_duration` INT(11) NULL DEFAULT NULL,

`max\_duration` INT(11) NULL DEFAULT NULL,

`min\_increment` INT(11) NULL DEFAULT NULL,

`unit\_cost` DECIMAL(7,2) NULL DEFAULT NULL,

`business\_id` BIGINT(20) NOT NULL,

`last\_modified` DATETIME NULL DEFAULT NULL,

`date\_created` DATETIME NOT NULL,

`creator\_id` BIGINT(20) NOT NULL,

`schedule\_id` VARCHAR(200) NOT NULL,

PRIMARY KEY (`id`),

INDEX `resource\_fk1\_idx` (`schedule\_id` ASC),

CONSTRAINT `resource\_fk1`

FOREIGN KEY (`schedule\_id`)

REFERENCES `schedule` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | resource\_status | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | resource\_id | varchar(200) | No |  |
| 2 | status\_id | int(11) unsigned | No | 1: available, 2: unavailable |
| 3 | reason | varchar(255) | Yes |  |

SQL Code:

-- -----------------------------------------------------

-- Table `resource\_status`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `resource\_status` (

`resource\_id` VARCHAR(200) NOT NULL,

`status\_id` INT(11) NOT NULL,

`reason` VARCHAR(255) NULL DEFAULT NULL,

PRIMARY KEY (`resource\_id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | resource\_type | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | varchar(200) | No |  |
| 2 | name | varchar(128) | No |  |
| 3 | description | text | Yes |  |

SQL Code:

-- -----------------------------------------------------

-- Table `resource\_type`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `resource\_type` (

`id` VARCHAR(200) NOT NULL,

`name` varchar(128) NOT NULL,

`description` text NULL DEFAULT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;