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** | layout | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | int(11) unsigned  auto\_increment | No |  |
| 2 | timezone | varchar(50) | No |  |
| 3 | business\_id | bigint(20) | No |  |

SQL Code:

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

-- Table `layout `

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

CREATE TABLE IF NOT EXISTS `layout` (

`id` INT(11) UNSIGNED NOT NULL AUTO\_INCREMENT,

`timezone` VARCHAR(50) NOT NULL,

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

PRIMARY KEY (`id`))

ENGINE = InnoDB

AUTO\_INCREMENT = 3

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | layout\_timeslot | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | varchar(200) | No | guid |
|  | layout\_id | int(11) unsigned | No |  |
|  | start\_time | time | No |  |
|  | end\_time | time | No |  |
|  | day\_of\_week | smallint(5) |  |  |
|  | status\_id | int(11) unsigned | No | 1:reservable time slot, 2:blocked time slot |

SQL Code:

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

-- Table `layout\_time\_slot`

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

CREATE TABLE IF NOT EXISTS `layout\_time\_slot` (

`id` VARCHAR(200) NOT NULL,

`layout\_id` INT(11) UNSIGNED NOT NULL,

`start\_time` TIME NOT NULL,

`end\_time` TIME NOT NULL,

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

`day\_of\_week` SMALLINT(5) NOT NULL,

PRIMARY KEY (`id`),

INDEX `time\_slot\_fk1\_idx` (`worktime\_id` ASC),

CONSTRAINT `time\_slot\_fk1`

FOREIGN KEY (`layout\_id`)

REFERENCES `layout` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | schedule | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | varchar(200) | No | guid |
| 2 | name | varchar(255) | No |  |
| 3 | is\_default | tinyint(1) | No | Default(1) |
| 4 | business\_id | bigint(20) | No |  |
| 5 | layout\_id | varchar(200) unsigned | No |  |  |  |  |  |  |
| 6 | weekday\_start | tinyint(2) unsigned | No | 一周从哪一天开始，  比如从周一开始还是周日开始 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | recordversion | bigint(20) | No | Default(0) |
|  |  |  |  |  |  |  |  |  |  |  | creation | datetime | No | Default(datetime.now) |

SQL Code:

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

-- Table `schedule`

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

CREATE TABLE IF NOT EXISTS `layout\_time\_slot` (

`id` VARCHAR(200) NOT NULL,

`name` VARCHAR(128) NOT NULL,

`is\_default` TINYINT(1) NOT NULL,

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

`layout\_id` INT(11) UNSIGNED NOT NULL,

`weekday\_start` TINYINT(2) UNSIGNED NOT NULL,

PRIMARY KEY (`id`),

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

CONSTRAINT `schedule\_fk1`

FOREIGN KEY (`layout\_id`)

REFERENCES `layout` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;