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** | reservation\_instance | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | bigint(20) | No | ID |
|  | date\_created | timestamp |  |  |
|  | last\_modified |  |  |  |
|  | last\_action\_by |  |  |  |
|  | employee\_created | bigint(20) |  |  |
|  | client\_id | bigint(20) |  |  |
|  | employee\_id | bigint(20) |  |  |
|  | client\_name | varchar(128) |  |  |
|  | client\_contact | varchar(128) |  |  |
|  | start\_time | timestamp |  |  |
|  | end\_time\_expected | timestamp |  |  |
|  | end\_time | timestamp |  |  |
|  | price\_expected | decimal(10,2) |  |  |
|  | price\_full | decimal(10,2) |  |  |
|  | discount | decimal(10,2) |  |  |
|  | price\_final | decimal(10,2) |  |  |
|  | status\_id | int(11) |  |  |
|  | business\_id | bigint(20) |  |  |
|  | title | varchar(128) |  |  |
|  | description | text |  |  |
|  | type\_id | tinyint(2) |  |  |

SQL Code:

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

-- Table `reservation`

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

CREATE TABLE IF NOT EXISTS `reservation` (

`id` VARCHAR(200) NOT NULL,

`date\_created` timestamp NOT NULL,

`last\_modified` timestamp NOT NULL,

`last\_action\_by` varchar(128) NOT NULL,

`employee\_created` varchar(200) NOT NULL,

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

`client\_name` varchar(128) NOT NULL,

`client\_contact` varchar(128) NOT NULL,

`start\_time` timestamp NOT NULL,

`end\_time\_expected` timestamp NOT NULL,

`end\_time` timestamp NOT NULL,

`price\_expected` decimal(10,2) NOT NULL,

`price\_full` decimal(10,2) NOT NULL,

`discount` decimal(10,2) NOT NULL,

`price\_final` decimal(10,2) NOT NULL,

`status\_id` tinyINT(2) NOT NULL,

`title` varchar(128) NOT NULL,

`description` varchar(256) NOT NULL,

`type\_id` tinyINT(2) NOT NULL,

PRIMARY KEY (`id`)

)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | reservation\_resource | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | bigint(20) | No | ID |
|  | reservation\_id | bigint(20) | No | ID |
| 2 | resource\_id | bigint(20) |  |  |

SQL Code:

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

-- Table `reservation\_resource`

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

CREATE TABLE IF NOT EXISTS `reservation\_resource` (

`id` bigint(20) NOT NULL,

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

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

PRIMARY KEY (`id`)

)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | reservation\_service\_booked | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | bigint(20) | No | ID |
| 2 | reservation\_id | bigint(20) |  |  |
| 3 | service\_id | bigint(20) |  |  |
| 4 | price | decimal(10,2) |  |  |

SQL Code:

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

-- Table `reservation\_service\_booked`

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

CREATE TABLE IF NOT EXISTS `reservation\_service\_booked` (

`id` VARCHAR(200) NOT NULL,

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

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

`price` decimal(10,2) NOT NULL,

PRIMARY KEY (`id`)

)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | reservation\_service\_provided | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | bigint(20) | No | ID |
| 2 | reservation\_id | bigint(20) |  |  |
| 3 | service\_id | bigint(20) |  |  |
| 4 | price | decimal(10,2) |  |  |

SQL Code:

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

-- Table `reservation\_service\_provided`

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

CREATE TABLE IF NOT EXISTS `reservation\_service\_provided` (

`id` VARCHAR(200) NOT NULL,

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

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

`price` decimal(10,2) NOT NULL,

PRIMARY KEY (`id`)

)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | reservation\_status | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | int(11) unsigned | No | 1: created, 2: pending, 3: deleted, 4: completed, 5: expired |
| 2 | label | varchar(255) |  |  |

SQL Code:

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

-- Table `reservation\_status`

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

CREATE TABLE IF NOT EXISTS `reservation\_status` (

`id` INT(11) NOT NULL,

`label` VARCHAR(255) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | reservation\_type | | | |
| **Desc** |  | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** |
| 1 | id | int(11) unsigned | No | 1: reservation, 2: blackout |
| 2 | label | varchar(255) |  | Reservation, Blackout |

SQL Code:

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

-- Table `reservation\_type`

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

CREATE TABLE IF NOT EXISTS `reservation\_type` (

`id` INT(11) NOT NULL,

`label` VARCHAR(255) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;