

**DATABASE DOCUMENT**

**RESTAURANT MANAGEMENT SYSTEM**

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| --- | --- |
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*Da Nang, 2021*

**PROJECT INFORMATION**

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| --- | --- | --- | --- | --- |
| **Project Acronym** | RMS | | | |
| **Project Title** | RESTAURANT MANAGEMENT SYSTEM | | | |
| **Start Date** | May 13, 2021 | **End Date** | | June 24, 2021 |
| **Lead Institution** | CMU, Duy Tan University | | | |
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Table 1: Project Information

**PROJECT PLAN DOCUMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Title** | Database Document | | |
| **Reporting Period** | May 2021 | | |
| **Author(s)** | Phan Minh Phu, Hoang Nghia Khue | | |
| **Date** | May 13, 2021 | **Filename** | 4.Database\_Group1\_RestaurantManagementSystem.docx |
| **Access** | Project and FIT program | | |

Table 2: Project Plan Document

REVISION HISTORY

| **Version** | **Date** | **Comments** | **Author** | **Approval** |
| --- | --- | --- | --- | --- |
| 1.0 | May 13, 2021 | Create Document | Phu, Khue |  |
|  |  |  |  |  |
|  |  |  |  |  |

Table 3: Revision History

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# 1. Introduction

## 1.1. Purpose

* Database design document describes structure of database and file structure of system. Database Design document will introduce all attribute the Application that will help developer and tester base on this design to implement and test.

## 1.2. Scope

* This Database Design Document provides the basic for “Restaurant Management System” Database design
* It defines the database that will support the “Restaurant Management System” Data Model.
* The database design for “Tournament Tracker Admin” is composed of definitions for database objects derived by mapping entities to tables attributes to columns.

# 2. Hardware and Software Requirement

* This section provides an overview of the software and hardware architecture. The following describes the technology components of SCT.

|  |  |
| --- | --- |
| **Description Attribute** | **Description Database** |
| **MySQL** |  |
| **Hardware** | **Mobile phone, computer with internet** |

Table 4: Technology Component

# 3. Database Design Decision

## 3.1. Database Relationship Diagram

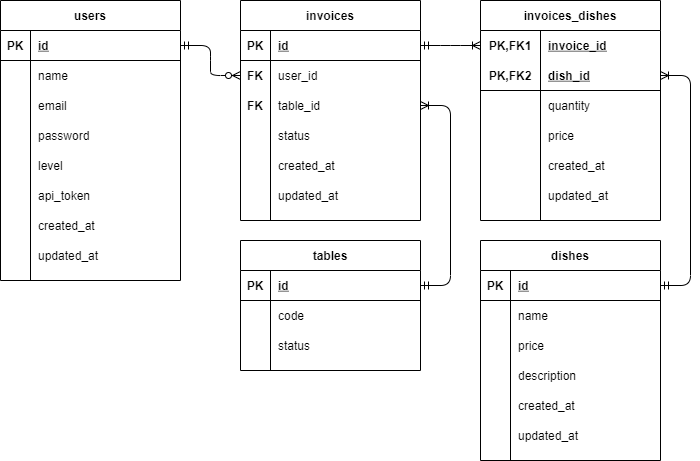


Figure 1: Relational Data Model

## 3.2. Table detail

### 3.2.1. Table 01: users

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Field** | **Type** | **Description** |
| 01 | id | unsignedInteger | id of user |
| 02 | name | string | name of user |
| 03 | email | string | email of user |
| 04 | password | string | password of user |
| 05 | level | tinyInteger | level of user (role) |
| 06 | api\_token | string | token of user after login |
| 07 | created\_at | timestamp | time when the user account created |
| 08 | updated\_at | timestamp | the last time user update account information |

Table 5: Users Detail

### 3.2.2 Table 02: dishes

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Field** | **Type** | **Description** |
| 01 | id | unsignedInteger | id of dish |
| 02 | name | string | name of dish |
| 03 | price | double | price of dish |
| 04 | description | text | description of dish |
| 05 | created\_at | timestamp | time when the dish created |
| 06 | updated\_at | timestamp | the last time dish update information |

Table 6: Dishes Detail

### 3.2.3. Table 03: tables

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Field** | **Type** | **Description** |
| 01 | id | unsignedInteger | id of dish |
| 02 | code | string | code of table |
| 03 | status | tinyInteger | status of table |

Table 7: Tables Detail

### 3.2.4. Table 04: invoices

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Field** | **Type** | **Description** |
| 01 | id | unsignedInteger | id of dish |
| 02 | name | string | name of dish |
| 03 | price | double | price of dish |
| 04 | description | text | description of dish |
| 05 | created\_at | timestamp | time when the dish created |
| 06 | updated\_at | timestamp | the last time dish update information |

Table 8: Invoices Detail

### 3.2.5. Table 05: invoice\_dishes

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Field** | **Type** | **Description** |
| 01 | invoice\_id | unsignedInteger | id of invoice |
| 02 | dish\_id | unsignedInteger | id of dish |
| 03 | quantity | unsignedInteger | quantity of dishes |
| 04 | price | tinyInteger | price of dish |
| 05 | created\_at | timestamp | time when the dish added first time |
| 06 | updated\_at | timestamp | the last time invoice dish update information |

Table 9: Invoice\_Dishes Detail

# 4. Examples

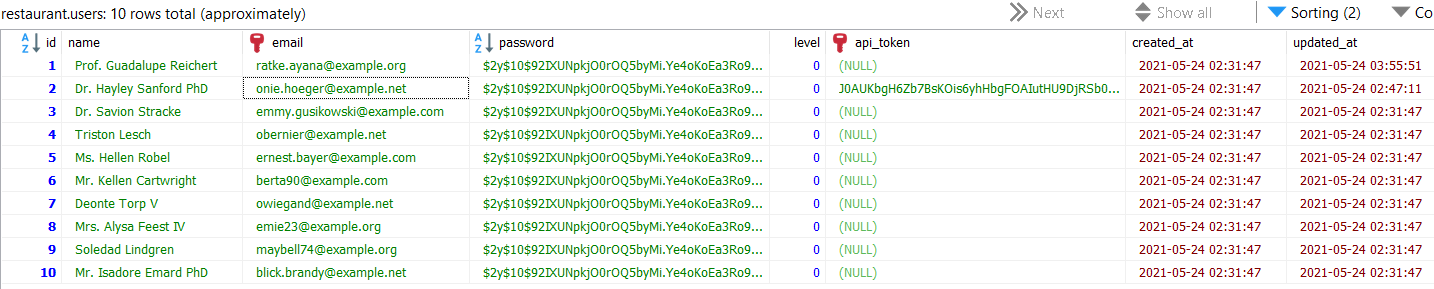


Figure 1: Example (Users)

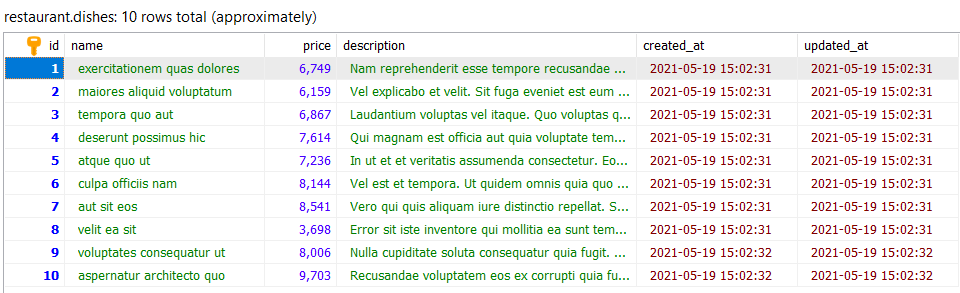


Figure 2: Example (Dishes)



Figure 3: Example (Tables)

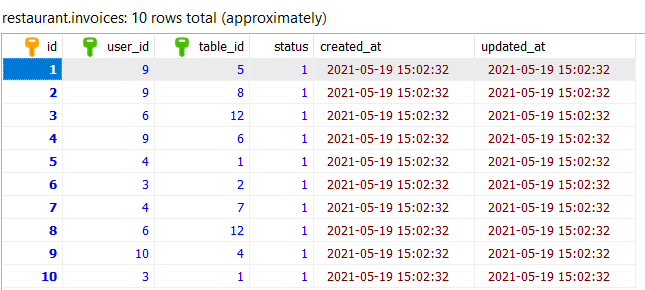


Figure 4: Example (Invoices)

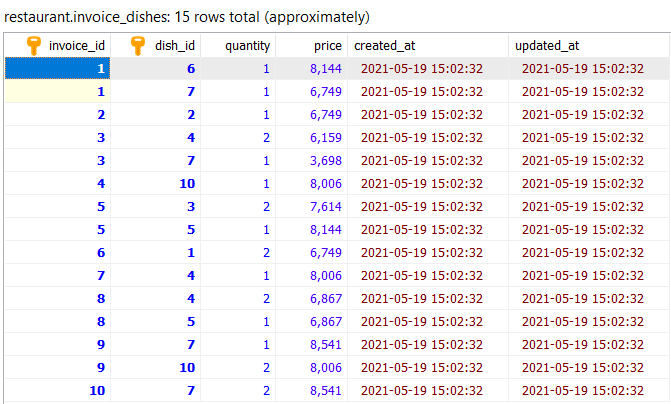


Figure 5: Example (Invoices\_Dishes)