

**TravelLocation**

**DETAIL DESIGN DOCUMENT**

**Data design**

**Project Code:**

Document Code: TravelLocation – v 1.0

### <Location, issued date of the Document>

**RECORD OF CHANGE**

#### \*A - Added M - Modified D – Deleted

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Effective Date | Changed Items | A\* M, D | Change Description | New Version |
| 16/03/2018 |  | A |  | 1.0 |
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**SIGNATURE PAGE**

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# INTRODUCTION

## Purpose

This part will give general description of the document including:

data design document describes structure of database and file structure of system including internal file structure as well as interface file structure. Developer and tester will base on this design to implement and unit test.

## Definitions, Acronyms and Abbreviations

|  |  |  |
| --- | --- | --- |
| **Abbreviations** | **Description** | **Comment** |
| P/F Key | Primary/ Foreign key | Use to indicate that a field is a primary or foreign key in table |
|  |  |  |
|  |  |  |

## References

#### List all the reference document such as: other document of the system, or the technical article,...

|  |  |
| --- | --- |
| **Document Number** | **Title** |
| Class design document |  |
| Screen design document |  |
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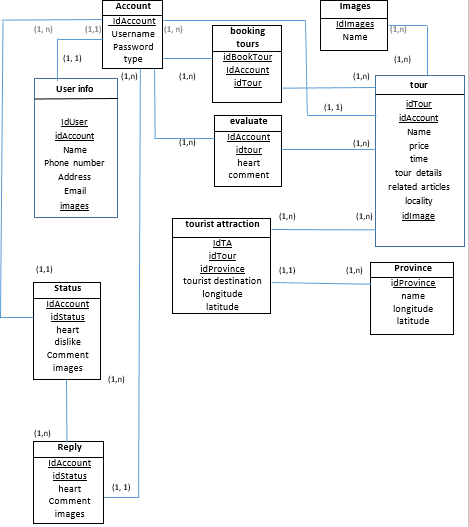
## Overview

General overview of the detail design such as what is the structure of the document

1. **DATABASE**

## ERDs

<Entity relation ship diagrams>



<List of tables and brief description>

|  |  |  |
| --- | --- | --- |
| **No** | **Table Name** | **Description** |
|  | account | Includes user name and password. There is 1 column to classify user as a normal business user or user. |
|  | User info | Store user information and business information |
|  | Tour | Information and tour listings of businesses, articles related to the tour |
|  | Booking Tour | Booking information of the tour operator and tour information, is managed by the business |
|  | images | Contains all images of the tour as well as representative photos of the accounts |
|  | evaluate | Write content reviews of users about the quality of the tour as: the number of people like, comment .. |
|  | tourist attraction | Information about tourist destinations: in which area of the province, which tours go through. |
|  | Province | Have province information such as province name and latitude and longitude coordinates so that users can determine where they are to search for tourist destinations around the area. |
|  | Status | Users post status to talk about the tour, expressing satisfaction or dissatisfaction with the quality of the tour, or suggesting new tourist destinations to other users. |
|  | Reply | Users can comment or reply to comments if the comment content or the user can drop the heart for the comment. |

## Account table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idAccount | int | 15 |  |  | x | p |  | account id |
| 02 | Username | Varchar | 50 |  |  | x |  |  | Account login is not the same. |
| 03 | Pass word | Varchar | 20 |  |  |  |  |  | Account password |
| 04 | type | String | 15 |  |  |  |  |  | Used to distinguish the account type |

## 2.3 user info table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idUser | int | 15 |  |  | x | P |  | id of the user |
|  | idAccount | Int | 15 |  |  |  | F |  | Account Id |
| 02 | name | String | 100 |  |  |  |  |  | The name of the user or business name |
| 03 | Phone number | number | 11 |  |  |  |  |  | Phone number of the user or of the business |
| 04 | address | String | 100 |  |  |  |  |  | The address of the user, whether the user can enter or not. Company address is required |
| 05 | Email | Varchar | 25 |  |  |  |  |  | User or account email to register for an account |
| 06 | image | String | 10 |  |  |  |  |  | Representative pictures taken from the user's phone. |

## 2.4 tour table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idTour | int | 15 |  |  | x | P |  | id of the tour |
| 02 | idAccount | Int | 15 |  |  |  | F |  | account id |
| 03 | name | String | 100 |  |  |  |  |  | Name of the tour |
| 04 | Price | Currency |  |  |  |  |  |  | Price of the tour |
| 05 | time | Varchar | 50 |  |  |  |  |  | The duration of the trip is informed in advance |
| 06 | Tour detail | String | 8000 |  |  |  |  |  | Detailed information about the trip |
| 07 | Related Articles | String | 100 |  |  |  |  |  | Articles related to tours or landmarks. |
| 08 | locality | Vachar | 50 |  |  |  |  |  | The travel region is north or south. |
| 09 | idImage | image |  |  |  |  | F |  | Pictures of the tour |

## 2.5 Booking Tour table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idBookTour | Int | 15 |  |  | x | P |  | Id of the tour listing booked |
| 02 | idTour | int | 15 |  |  |  | F |  | id of the tour |
| 03 | idUser | Int | 15 |  |  |  | F |  | id of the tour operator |

## 2.6 image table

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idImage | int | 15 |  | |  | x | P |  | id of the tour |
| 02 | name | Int | 15 |  | |  |  |  |  | Name of the picture |

## 2.7 evaluate table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idTour | int | 15 |  |  | x | P |  | id of the tour |
| 02 | idAccount | Int | 15 |  |  |  | F |  | id of the tour operator |
| 03 | Heart | Int | 15 |  |  |  |  |  | If you are satisfied with the service, the higher your heart rate, the higher the quality |
| 04 | comment | String | 2000 |  |  |  |  |  | Comment on user feedback |

## 2.8 Province table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | idProvince | int | 15 |  |  | X | P |  | id of the province |
| 02 | name | String | 100 |  |  |  |  |  | Name of province / city |
| 03 | longitude | String | 50 |  |  |  |  |  | Longitude of province / city |
| 04 | latitude | String | 50 |  |  |  |  |  | Latitude of the province / city |

## 2.9 tourist attraction table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | IdTA | int | 15 |  |  | X | P |  | Id of tourist attraction |
| 02 | idTour | Int | 15 |  |  |  | F |  | id of the tour operator |
| 03 | idProvince | Int | 15 |  |  |  | F |  | Id of the province |
| 04 | Name | String | 2000 |  |  |  |  |  | Name of tourist destination |
| 05 | longitude | String | 50 |  |  |  |  |  | Longitude of the place |
| 06 | latitude | String | 50 |  |  |  |  |  | Latitude of the place |

## 2.10 Status table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | IdAccount | int | 15 |  |  | X | P |  | User Id |
| 02 | idStatus | Int | 15 |  |  |  | F |  | id of status |
| 03 | heart | Int | 15 |  |  |  |  |  | Number of people like |
| 04 | dislike | String | 2000 |  |  |  |  |  | Number of people do not like |
| 05 | Comment | String | 50 |  |  |  |  |  | Comment content |
| 06 | images | String | 50 |  |  |  |  |  | Picture of the post |

## 2.11 Reply table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Length** | **Size** | **Null** | **Unique** | **P/F Key** | **Default** | **Description** |
| 01 | IdAccount | int | 15 |  |  | X | F |  | User Id |
| 02 | idStatus | Int | 15 |  |  |  | F |  | id of status |
| 03 | heart | Int | 15 |  |  |  |  |  | Count the number of people like |
| 04 | Comment | String | 2000 |  |  |  |  |  | Write a comment for a post or reply to a comment |
| 05 | images | String | 50 |  |  |  |  |  | photo for comment |