MINISTRY OF EDUCATION AND TRAINING





My Trips Detail Design Document Data Design

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Record of change

*A - Added M - Modified D - Deleted

Effective Date	Changed Items	A* M, D	Change Description	New Version
30 th July	All	A	Create new	0.1
4 st Aug	Trip Table	M	Update table	0.2
10 th Aug	ERD	M	Update image of Entity relationship	1.0
15Aug	Report Month	A	Add Report month	1.1
17 th Aug	Location table	M	Update tabke	2.0

SIGNATURE PAGE

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1. Introduction

1.1.Purpose

This document provides structure of database, code design and file structure of system including internal file structure as well as internal file structure. Developer and tester will base on this design to implement and unit test.

1.2. Definitions, acronyms and abbreviations

Abbreviations	Description	Comment
MT	My Trip Application	
ERD	Entity Relation Diagram	

1.3. References

Document Number	Title
1	Screen design document
2	Architecture design document

1.4. Overview

MT project's data design include:

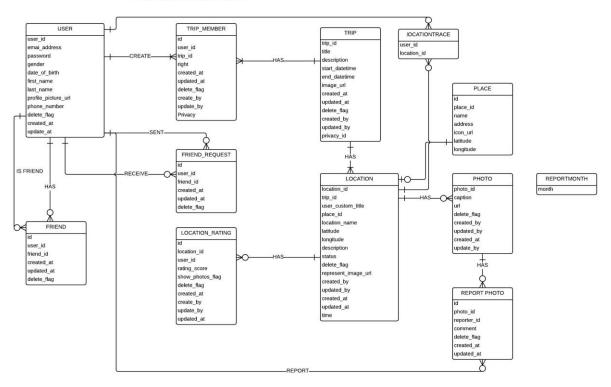
- Introduction about document
- Database's detail
- File design
- Code design
- Other considerations

2. Database 2.1. ERD

Below is ERD diagram of My Trips Main system

MT Application

Entity Relationship Diagram



No	Table Name	Description
1	User	Store all information of user
2	Friend	Store all relationship between two user
3	Trip_member	Store all information and role of each member in trip
4	Trip	Store all information of trip
5	Location	Store all information of Location
6	Photo	Store all information of Photo
7	Friend_request	Store all request make friend of User
8	Location_rating	Store all the score of each Location
9	Report_photo	Store all the report Photo of User

10	Place	Store all information about place
11	LocationTrace	Store status when user come location
12	ReportMonth	Store time when report

2.2.User Table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	user_id	INTEGER		X	PK		Primary key of User
2	emai_address	VARCHA R(30)		X			Email of each User use to login
3	Password	VARCHA R(12)					Password of each User use to login
4	Gender	TINYINT					Female or Male
5	date_of_birth	DATE					DD/MM/YYYY
6	first_name	VARCHA R(30)		X			First Name of User
7	last_name	VARCHA R(30)		X			Last Name of User
8	profile_pictur e_url	VARCHA R(200)					Profile image Url to load image from server
9	phone_numb er	VARCHA R(13)					Phone number of User
10	delete_flag	TINYINT					Key to check account have been deleted
11	created_at	DATETI ME					Date and time create account
12	update_at	DATETI ME					Date and time update information about account
13	facebook_use r_id	VARCHA R(16)		X			Facebook ID get from FB API

2.3.Trip Table4

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	trip_id	INTEGER		X	PK		Primary key of trip
2	Title	VARCHA R(40)					Title of trip
3	description	VARCHA R(200)					Description of trip
4	start_datetim e	DATETI ME					Date and time when start Trip
5	end_datetime	DATETI ME					Date and time when End Trip
6	image_url	VARCHA R(200)					Image Url to load image from server
7	created_at	DATETI ME					Date and time when create Trip
8	updated_at	DATETI ME					Date and time when update Trip
9	delete_flag	TINYINT					Key to check Trip have been deleted
10	created_by	INTEGER					ID of User Create Trip
11	updated_by	INTEGER					ID of User Update Trip

2.4.Trip_member table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	id	INTEGER		X	PK		Primary key
2	user_id	INTEGER		X	FK		ID of User create Trip
3	trip_id	INTEGER		X	FK		ID of Trip
4	RIGHT	INTEGER					Role of User who can delete trip or remove member

5	created_at	DATETI ME			Date and time when create trip
6	updated_at	DATETI ME			Date and time when update member
7	delete_flag	TINYINT			Key to check Trip have been deleted
8	create_by	INTEGER			ID of User who Create Trip
9	Update_by	INTEGER			ID of User who Update Trip

2.5.Location table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	location_id	INTEGER		X	PK		Primary key
2	trip_id	INTEGER		X	FK		ID of trip contain Location
3	user_custom _title	VARCHA R(40)					Title of Location
4	location_nam e	VARCHA R(40)					Name of location
5	latitude	FLOAT					Latitude of location in Map
6	longitude	FLOAT					longitude of location in Map
7	description	VARCHA R(200)					Description of Location
8	status	TINYINT					The key check user came the location
9	delete_flag	TINYINT					Key to check Trip have been deleted
10	represent_im age_url	VARCHA R(200)					URL represent image of Location

11	created_by	INTEGER			ID of User who add Location
12	updated_by	INTEGER			ID of User who update Location
13	time	DATETI ME			Time to pass the location
14	created_at	DATETI ME			Date and time when create trip
15	updated_at	DATETI ME			Date and time when update member

2.6.Photo table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	photo_id	INTEGER		X	PK		Primary key of Photo
2	caption	VARCHA R(30)		X			Caption of photo
3	url	VARCHA R(200)					Profile image Url to load image from server
4	delete_flag	TINYINT					Key to check Trip have been deleted
5	created_at	DATETI ME					Date and time when add Image
6	Update_at	DATETI ME					Date and time when update Image
6	created_by	INTEGER					ID of User who add Image
7	update_by	INTEGER					ID of User who update Image
8	location_id	INTEGER		X	FK		ID of Location contain the Image

2.7.Friend table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	id	INTEGER		X	PK		Primary key of Friend Table
2	user_id	INTEGER		X	FK		ID of User Who sent request
3	friend_id	INTEGER		X	FK		ID of User Who receive request
4	created_at	DATETI ME					Date and time when add sent request
5	updated_at	DATETI ME					Date and time when resend sent request
6	delete_flag	TINYINT					Key to check Trip have been deleted

2.8.Location rating table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	Id	INTEGER		X	PK		Primary key of Friend Table
2	location_id	INTEGER		X	FK		ID of location is rating
3	user_id	INTEGER		X	FK		ID of user who will rating for Location
4	rating_score	DATETI ME					Score of location calculate base on number of rate
5	show_photo_ flag	INTERGE R					Display photo
5	updated_at	DATETI ME					Date and time when update
6	create_at	DATETI ME					Date and time when crate
7	delete_flag	TINYINT					Key to check number of

			rate have been deleted

2.9.Report photo table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	id	INTEGER		X	PK		Primary key of Friend Table
2	reporter_id	INTEGER		X	FK		ID of User Who sent request
3	photo_id	INTEGER		X	FK		ID of User Who receive request
4	comment	NVARCH AR		X			
4	created_at	DATETI ME					Date and time when add sent request
5	updated_at	DATETI ME					Date and time when add sent request
6	delete_flag	TINYINT					Key to check Trip have been deleted

2.10. Place Table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	id	INTEGER		X	PK		Primary key of Place Table
2	place_id	INTEGER		X			Id of place get from google map service
3	name	NVARCH AR		X			Name of place
4	address	NVARCH AR		X			
4	icon_url	DATETI ME					Icon Url of Place
5	latitude	DATETI					Latitude of location in

		ME			Map
6	longitude	TINYINT			longitude of location in Map

2.11. LocationTrace Table

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	user_id	INTEGER		X	FK		Id of user
2	Location _id	INTEGER		X	FK		Id of location

2.12. ReportMonth

No	Field Name	Type	Null	Unique	P/F Key	Default	Description
1	month	DATE		X	PK		Primary key of Report Month Table