FLY AWAY PLUS

DETAIL DESIGN

DATA DESIGN

Project Code:

Document Code:

Record of Change

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

Signature Page

Table of Content

# Introduction

## Purpose

Fly Away Plus data design document describes structure of database and file structure of system including internal file structure as well as interface file structure.

## Definitions, Acronyms and Abbreviations

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |

## References

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| --- | --- |
|  |  |
|  |  |

## Overview

# Database

## Entity Relationship Diagram



### Entity Description

|  |  |  |
| --- | --- | --- |
| No. | Entity | Description |
|  | User | User is all people who registered and using FAP |
|  | Post | A post which user published, contain content, videos, photos and places mention |
|  | Video | A video which user attached in a post while creating |
|  | Picture | Photo(s) which user attached in a post while creating |
|  | Place | A place which user must mention in a post while creating |
|  | Room | A group which user created, includes content, plan, members, photo, video and place mention |
|  | Chat | Chat is message user sends or receives from others |
|  | Comment | A comment which user created, is placed in and associated to a post |

### Relationship

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Entity A | Entity B | Relation | Description |
|  | User | Post | 1 to Many | User can create many posts |
|  | User | Video | 1 to Many | User can create many videos |
|  | User | Photo | 1 to Many | User can create many photos |
|  | User | Room | 1 to Many | User can create many rooms |
|  | User | Chat | 1 to Many | User can create many chats |
|  | User | Comment | 1 to Many | User can create many comments |
|  | Post | Photo | 1 to Many | A post can have many photos |
|  | Post | Video | Many to Many | A post can have many videos  A video can be mentioned in many posts |
|  | Post | Place | Many to 1 | A post can mention one place only  A place can be mentioned in many posts |
|  | Post | Comment | 1 to Many | A post can have many comments |
|  | Room | Video | 1 to Many | A room can have many videos |
|  | Room | Photo | 1 to Many | A room can have many photos |
|  | Room | Place | Many to Many | A room can mention many places  A place can be mentioned in many rooms |
|  | Room | Post | 1 to Many | A room can have many posts |

## Table Diagram

### User Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | userID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | typeID | int |  |  |  | Y |  |  |  |
|  | email | varchar | 255 |  |  | Y |  |  | User’s email |
|  | firstName | nvarchar | 50 |  |  |  |  |  | User’s first name |
|  | lastName | nvarchar | 50 |  |  |  |  |  | User’s last name |
|  | password | varchar | 50 |  |  |  |  |  | User’s password |
|  | confirmPassword | varchar | 50 |  |  |  |  |  | User retypes password. Must be same as password. |
|  | address | nvarchar | 255 |  | Y |  |  |  | User’s address |
|  | gender | varchar | 10 |  |  |  |  |  | User’s gender |
|  | phoneNumber | varchar | 20 |  | Y |  |  |  | User’s phone number |
|  | dateOfBirth | varchar | 10 |  | Y |  |  |  | User’s date of birth |
|  | status | varchar | 255 |  | Y |  |  |  | User’s status |
|  | dateJoined | varchar | 10 |  |  |  |  |  | User’s joined date |
|  | avatar | varchar | 255 |  | Y |  |  |  | User’s avatar |

### Comment Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | commentID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | content | nvarchar | 255 |  |  |  |  |  | Comment’s content |
|  | dataCreated | varchar | 10 |  |  |  |  |  | Comment’s created date |

### Conversation Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | conversationID | varchar | 255 |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | dataCreated | varchar | 10 |  |  |  |  |  | Conversation’s created date |

### Message Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | messageID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | content | nvarchar | 255 |  |  |  |  |  | Message’s content |
|  | dateCreated | varchar | 10 |  |  |  |  |  | Message’s created date |

### Notification Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | lastActivityID | int16 |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | activity | varchar | 255 |  |  |  |  |  | Notification’s activity |
|  | dateCreated | varchar | 10 |  |  |  |  |  | Notification’s created date |
|  | user | user |  |  |  |  |  |  | Activity’s owner |
|  | post | post |  |  |  |  |  |  | Activity’s location |
|  |  |  |  |  |  |  |  |  |  |

### Post Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | postID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | content | nvarchar | 255 |  |  |  |  |  | Post’s content |
|  | dateCreated | varchar | 10 |  |  |  |  |  | Post’s created date |
|  | privacy | varchar | 10 |  |  |  |  |  | Post’s privacy |

### Place Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | placeID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | longitude | decimal |  |  |  |  |  |  | Place’s longitude |
|  | latitude | decimal |  |  |  |  |  |  | Place’s latitude |
|  | name | nvarchar | 255 |  |  |  |  |  | Place’s name |

### Photo Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | photoID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | url | varchar | 255 |  |  |  |  |  | Photo’s url |
|  | dateCreated | varchar | 10 |  |  |  |  |  | Photo’s created date |

### Video Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | videoID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | path | varchar | 255 |  |  |  |  |  | Video’s url |
|  | dateCreated | varchar | 10 |  |  |  |  |  | Video’s created date |

### Room Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | roomID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | roomName | varchar | 255 |  |  |  |  |  | Room’s name |
|  | dateCreated | varchar | 10 |  |  |  |  |  | Room’s created date |

### Report Post table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | reportID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | postID | int |  |  |  |  |  |  | Reported post’s ID |
|  | content | nvarchar | 255 |  |  |  |  |  | Report’s reason |
|  | userReportID | int |  |  |  |  |  |  | Report owner’s ID |
|  | userReportedID | int |  |  |  |  |  |  | Reported user’s ID |

### Report User table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Field Name | Type | Length | Size | Null | Unique | P/F Key | Default | Description |
|  | reportID | int |  |  |  | Y | P |  | PRIMARY KEY  This is automatically increase value by 1 |
|  | content | nvarchar | 255 |  |  |  |  |  | Report’s reason |
|  | userReportID | int |  |  |  |  |  |  | Report owner’s ID |
|  | userReportedID | int |  |  |  |  |  |  | Reported user’s ID |