**Project Specification**

Data Model

**Summary**

This document aims to demonstrate the data model that will be implemented in the web application developed by “42”, team 197. The types, lengths, and other constraints of each field in each model will be clearly specified.

The data models are listed as below. Each data model will have a corresponding form to validate the user input.

* user private information
* user public information
* post
* comment
* image
* recommendation list

**Model**

This section discusses details of the data models in our web application.

1. user authentication information

We uses Django authentication User model for user authentication.

2. user public information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Required | Constraint |
| email | email | 50 | yes | valid email address |
| gender | chars | — |  | male/ female/ not identified |
| birthday | date | — |  | MM/dd/yyyy |
| address | chars | 255 |  |  |
| post number | chars | 10 |  |  |
| phone | chars | 18 |  |  |
| followers | self | — |  | foreign key field to self |

3. post information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Required | Constraint |
| title | chars | 42 | yes |  |
| date | chars | — | yes | MM/dd/yyyy-HH:mm:ss |
| location | chars | 255 |  | location of the post, get from Google Map APIs |
| category | chars | 10 | yes | predefined categories |
| video | file | — |  | at max size of 50MB |
| likeCount | integer | — |  | how many users like this post |
| dislikeCount | integer | — |  | how many users dislike this post |
| description | chars | 300 |  |  |
|  |  |  |  |  |

4. images in a post

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Required | Constraint |
| imageUrl | image | — | yes | one image upload to a post |
| post | post | — | yes | foreign key field to post, one to many relationship |
|  |  |  |  |  |

5. comments information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Required | Constraint |
| post | post | — | yes | foreign key field to post, one to many relationship |
| text | chars | 100 | yes | short text |
| date | date | — | yes | date of when the comments is generated |
| user | user | — | yes | foreign key field to user, one to many relationship, indicating who has this comments |
|  |  |  |  |  |

6. reply of comments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Required | Constraint |
| comment | comment | — | yes | foreign key field to the comment, one to many relationship |
| text | chars | 100 | yes | short text |
| date | date | — | yes | date of when the reply is generated |
| user | user | — | yes | foreign key field to user, one to many relationship, indicating who has this reply |
|  |  |  |  |  |

6. recommendation list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Required | Constraint |
| user | user | — | yes | foreign key field to user, one to one relationship |
| userList | user | 20 |  | foreign key field to user, one to many relationship, storing the current recommending user list. |
| postList | post | 50 |  | foreign key field to user, one to many relationship, storing the current recommending post list. |
| updateTime | date | — | yes | when the recommendation list was updated |