

**FLY AWAY PLUS**

**DETAIL DESIGN DOCUMENT**

**Class Design**

**Project Code: FAP**

**Document Code: FAP\_Class Design\_v1.0\_EN**

**Record of Change**

\*A-Added M-Modified D-Deleted

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Item | A, M, D\* | Change Description | Version |
| 2015/08/14 | Add new | A |  | V1.0 |

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# Introduction

## Purpose

Fly Away Plus class design document contains descriptions of all classes of the Fly Away Plus. It includes:

* Class diagrams that describe the static relation of all classes in the system.

## Definitions, Acronyms and Abbreviations

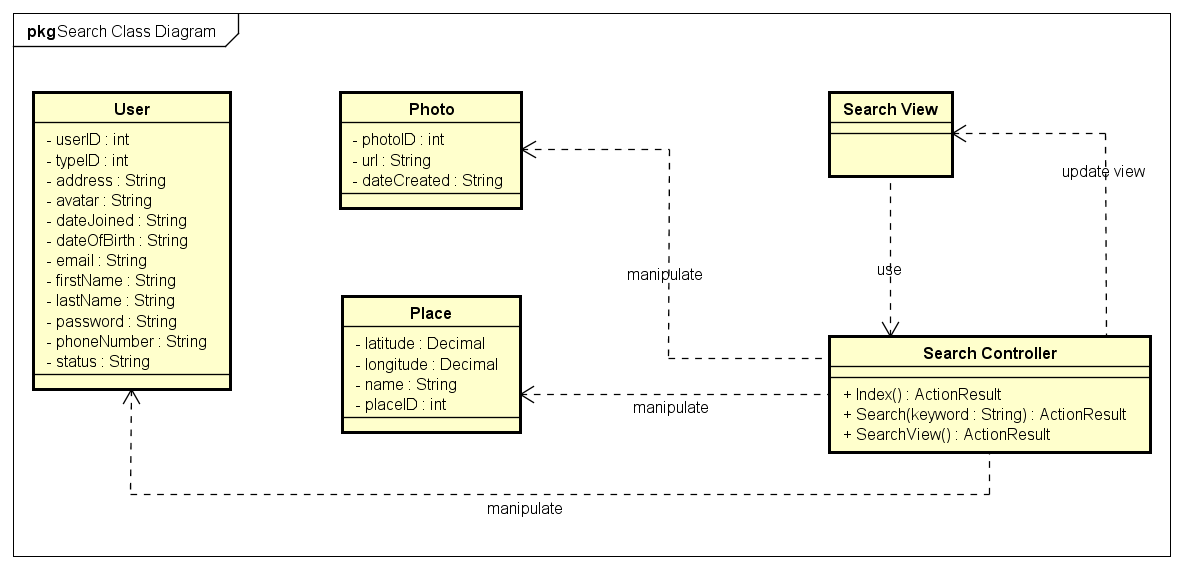
|  |  |  |
| --- | --- | --- |
| Abbreviations | Description | Comment |
| FAP | Fly Away Plus |  |
| FAQ | Frequently Asked Question |  |

# Packages

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Packages | Language | Description |
|  | Search | C# |  |
|  | Help Center | C# | Contain help content, FAQ and using guides |
|  | Suggest | C# | Create suggestion based on user activities history |
|  | Personal Page | C# | Contain user’s personal page: New feed, Timeline, Post, … |
|  | Post Management | C# | Contain information and data which related to posts |
|  | Share Management | C# | Share FAP contents to other social networks |
|  | Comment Management | C# | Contain information of comments |
|  | Like Management | C# | User create a rating to a post, includes: Like and Dislike |
|  | Report | C# | Contain reports which user created and sent to Admin |
|  | Chat | C# | Contain messages which user sent to others |
|  | Friend Management | C# | Contain user’s friend list and friend request |
|  | Room | C# | Contain room which user created |
|  | Login | C# | Contain user’s login information |
|  | Manage Member’s Account | C# | Contain Admin’s function, is used to handle reports which was sent by user |

## Search

### Class Diagram



*Search Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | Photo | Include method interact with Database |
|  | Place | Include method interact with Database |
|  | Search | Include method interact with Controller |
|  | Search Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Photo Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | photoID | int |  |  | Photo’s ID |
|  | url | String |  |  | Photo’s URL |
|  | dateCreated | String |  |  | Photo’s created date. Auto-created while uploading |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Place Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | placeID | int |  |  | Place’s ID |
|  | name | String |  |  | Place’s name |
|  | latitude | Decimal |  |  | Place’s latitude |
|  | longitude | Decimal |  |  | Place’s longitude |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### SearchController class

#### Attributes

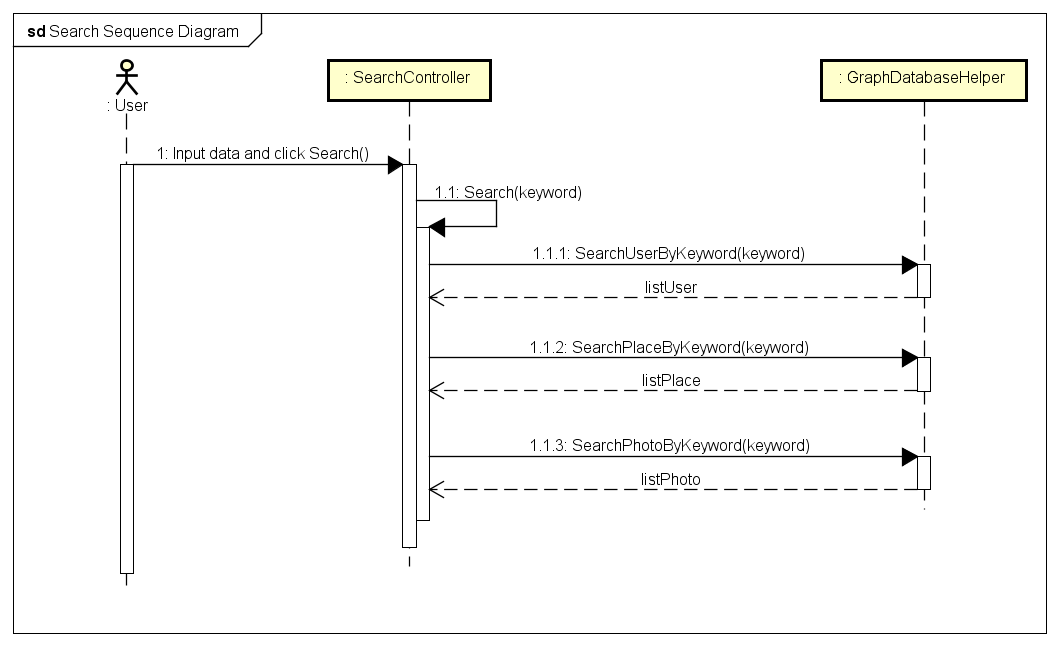
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | Index |  | ActionResult | Display Search page |
|  | Search | String | ActionResult | Search a keyword |
|  | SearchDetail |  | ActionResult | Display Search Result page |

### Sequence Diagram

#### UC001-Search by name



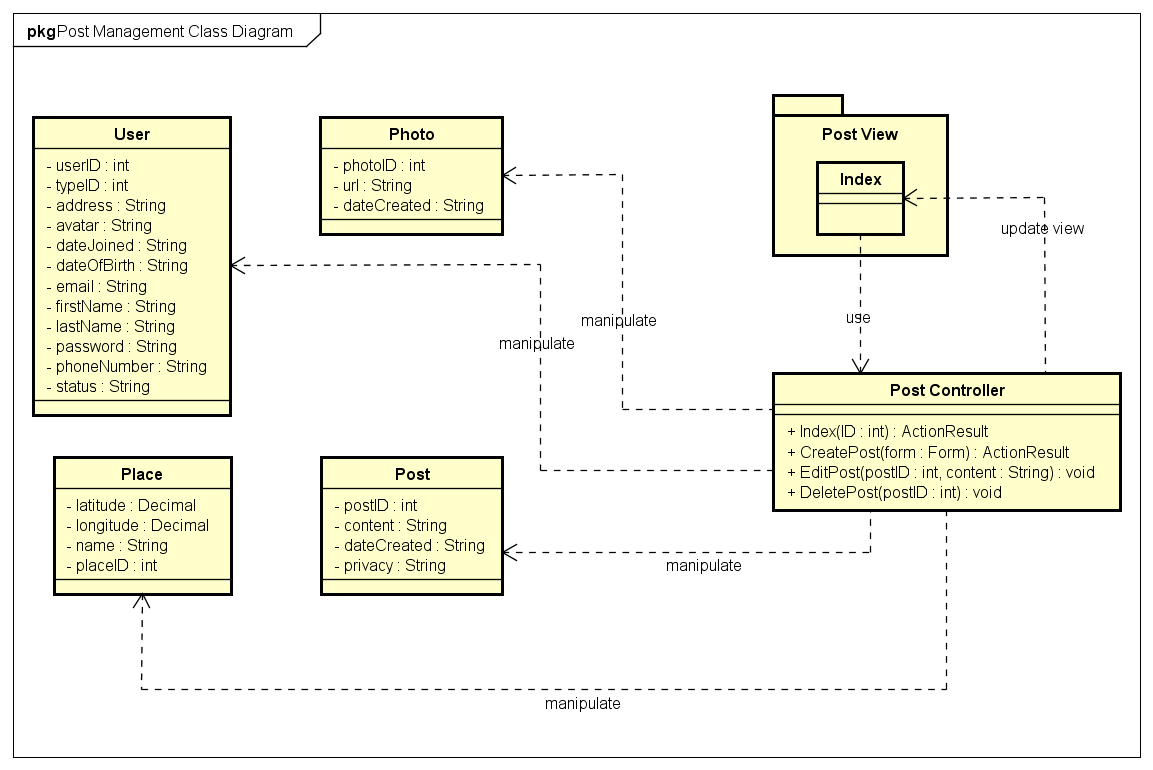
*Search Sequence Diagram*

## Help Center (Undone)

## Suggest (Undone)

## Post Management

### Class Diagram



*Post Management Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | Photo | Include method interact with Database |
|  | Place | Include method interact with Database |
|  | Index | Include method interact with Controller |
|  | Post Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Photo Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | photoID | int |  |  | Photo’s ID |
|  | url | String |  |  | Photo’s URL |
|  | dateCreated | String |  |  | Photo’s created date. Auto-created while uploading |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Place Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | placeID | int |  |  | Place’s ID |
|  | name | String |  |  | Place’s name |
|  | latitude | Decimal |  |  | Place’s latitude |
|  | longitude | Decimal |  |  | Place’s longitude |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Post Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | postID | int |  |  | Post’s ID |
|  | content | String |  |  | Post’s content |
|  | dateCreated | String |  |  | Post’s created date. Auto-created while creating post |
|  | privacy | String |  |  | Post’s privacy |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Post Controller Class

#### Attributes

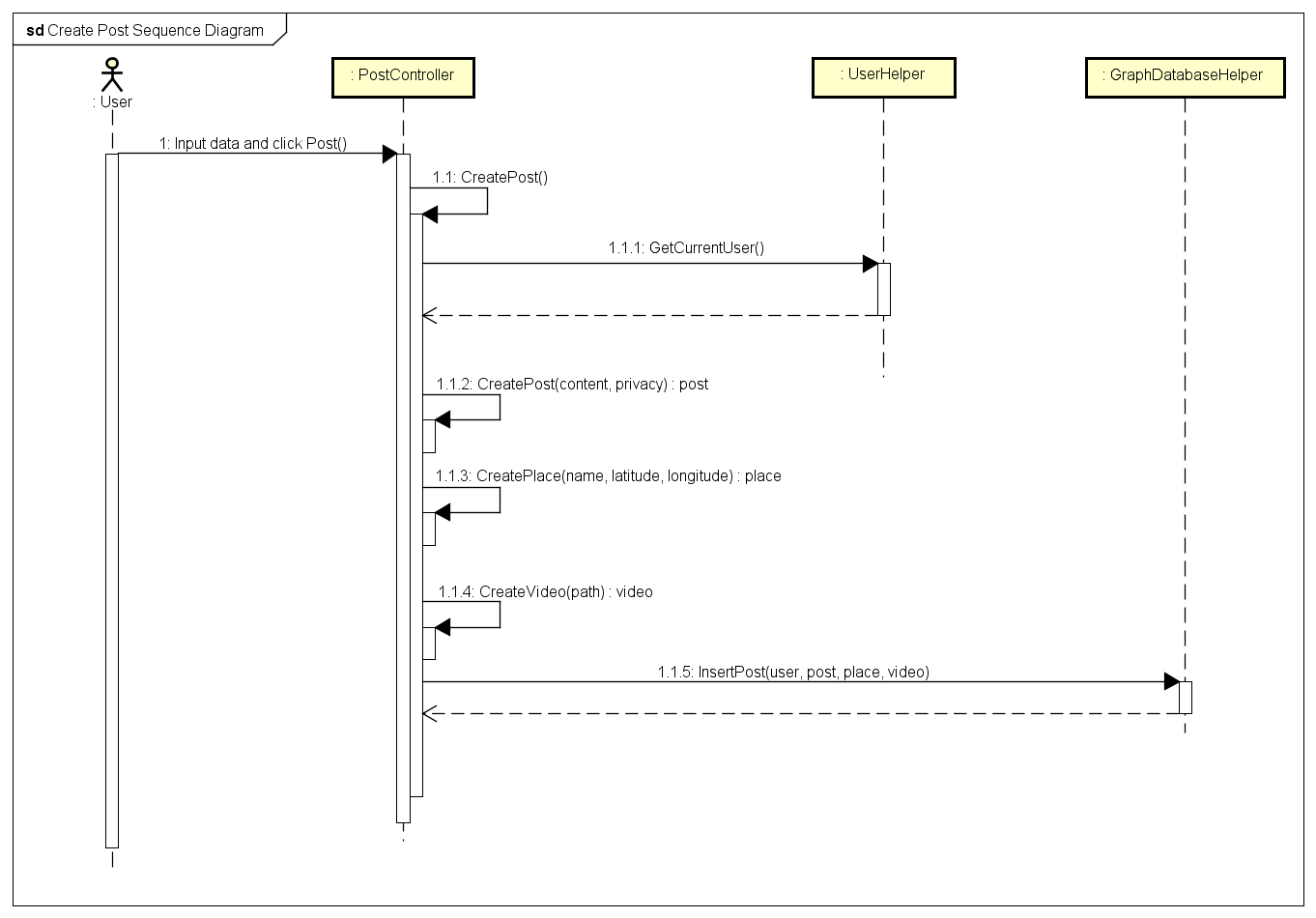
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | Index |  | ActionResult | Display Search page |
|  | Search | String | ActionResult | Search a keyword |
|  | SearchDetail |  | ActionResult | Display Search Result page |

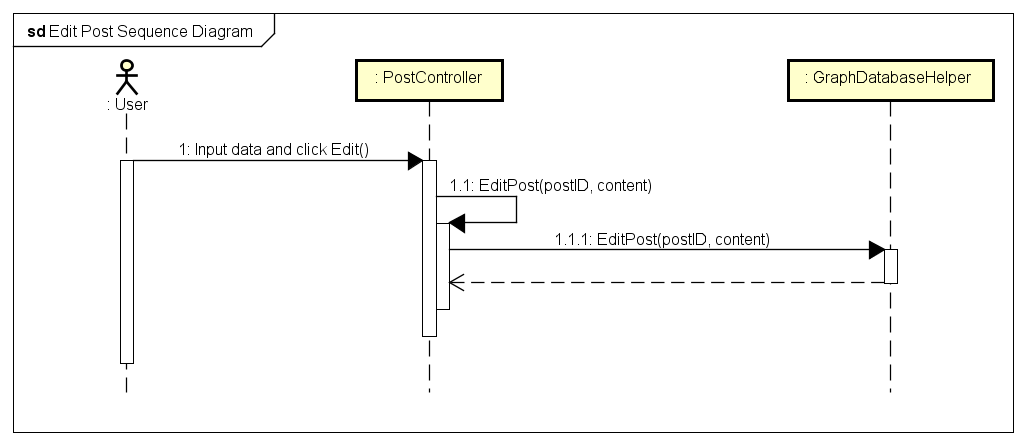
### Sequence Diagram

#### Add Post



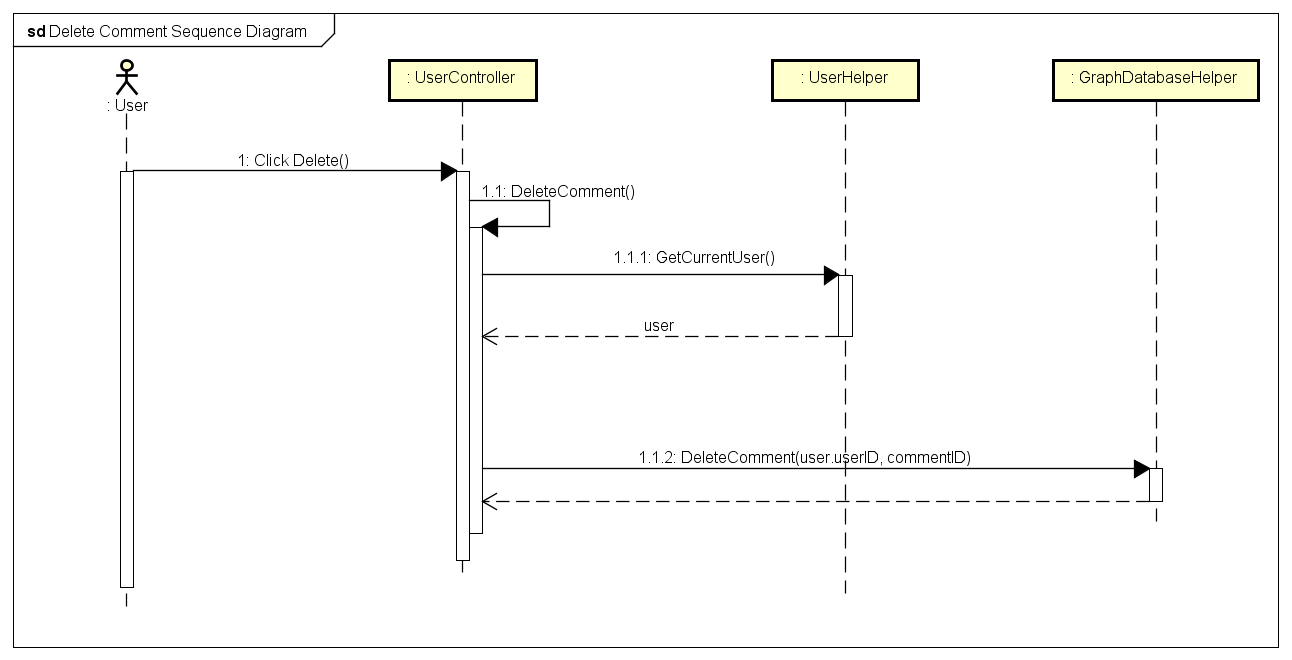
*Add Post Sequence Diagram*

#### Edit Post



*Edit Post Sequence Diagram*

#### Delete Post

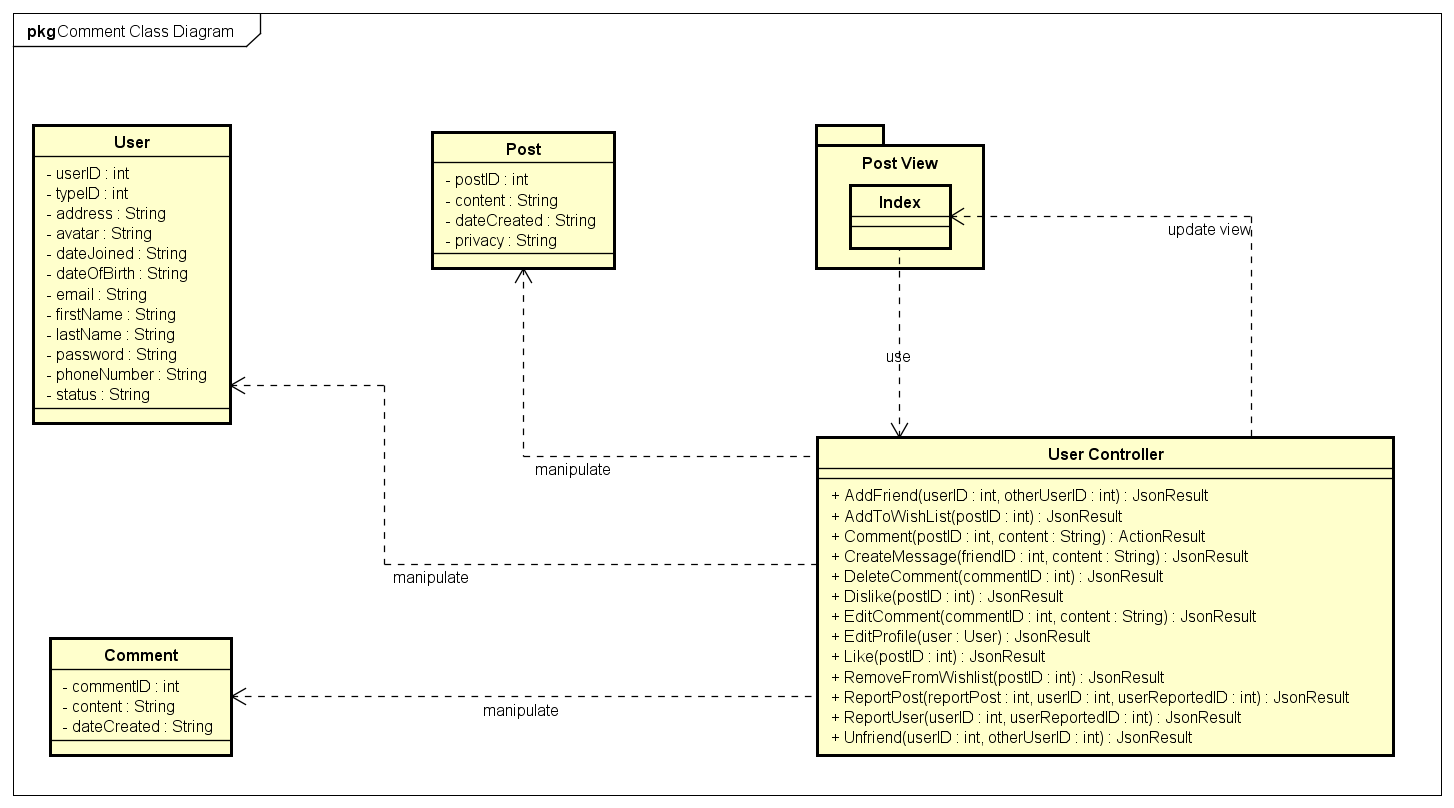


*Delete Post Sequence Diagram*

## Share Management (Undone)

## Comment Management

### Class Diagram



*Comment Management Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | Post | Include method interact with Database |
|  | Comment | Include method interact with Database |
|  | Index | Include method interact with Controller |
|  | User Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Post Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | postID | int |  |  | Post’s ID |
|  | content | String |  |  | Post’s content |
|  | dateCreated | String |  |  | Post’s created date. Auto-created while creating post |
|  | privacy | String |  |  | Post’s privacy |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### User Controller Class

#### Attributes

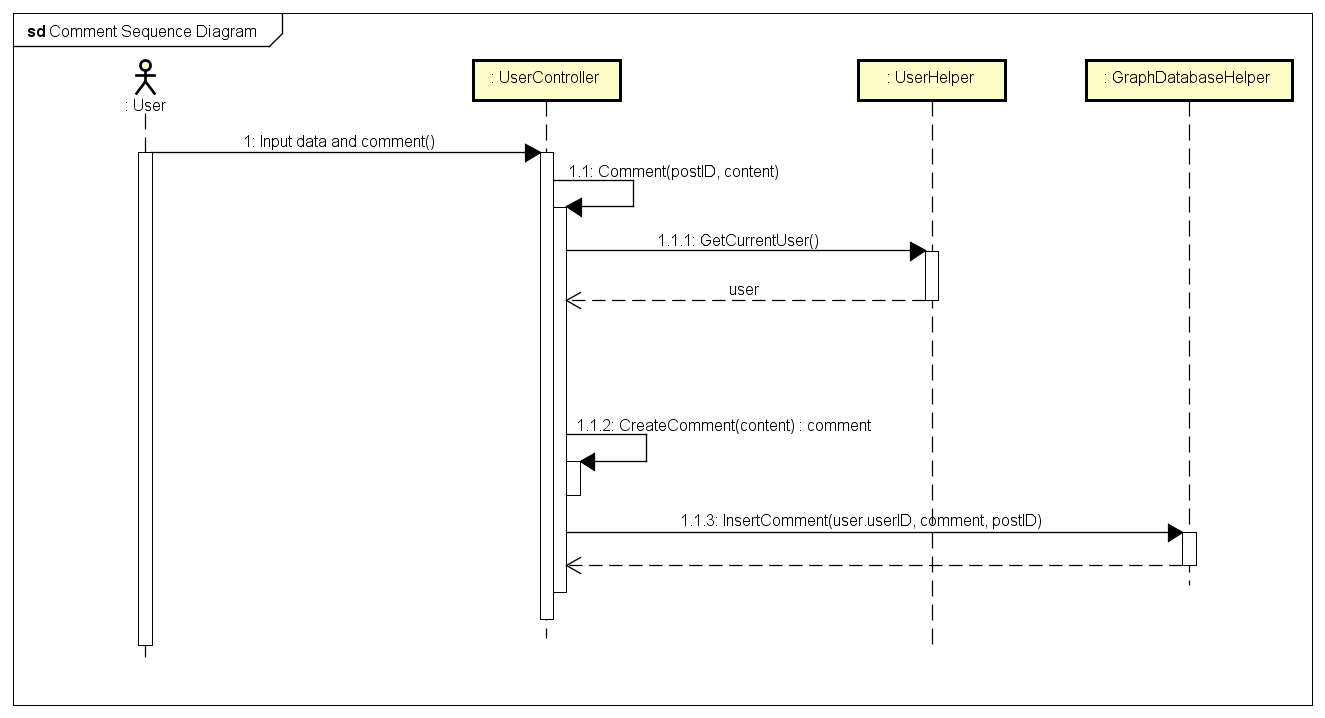
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | AddFriend | int, int | JsonResult | Add other users to friend list to get news, notification and messages |
|  | AddToWishlist | String | JsonResult | Add a post to wish list |
|  | Comment | int, String | ActionResult | Create a comment |
|  | CreateMessage | int, String | JsonResult | Send message to others |
|  | DeleteComment | int | JsonResult | Delete an owned comment |
|  | Dislike | int | JsonResult | Mark a post as dislike |
|  | EditComment | int, String | JsonResult | Edit content of an owned comment |
|  | EditProfile | user | JsonResult | Edit personal information |
|  | Like | int | JsonResult | Mark a post as liked |
|  | RemoveFromWishlist | int | JsonResult | Remove a post from wish list |
|  | ReportPost | int, int, int | JsonResult | Report a rule violation post |
|  | ReportUser | int, int | JsonResult | Report a rule violation user |
|  | Unfriend | int, int | JsonResult | Remove an user from friend list |

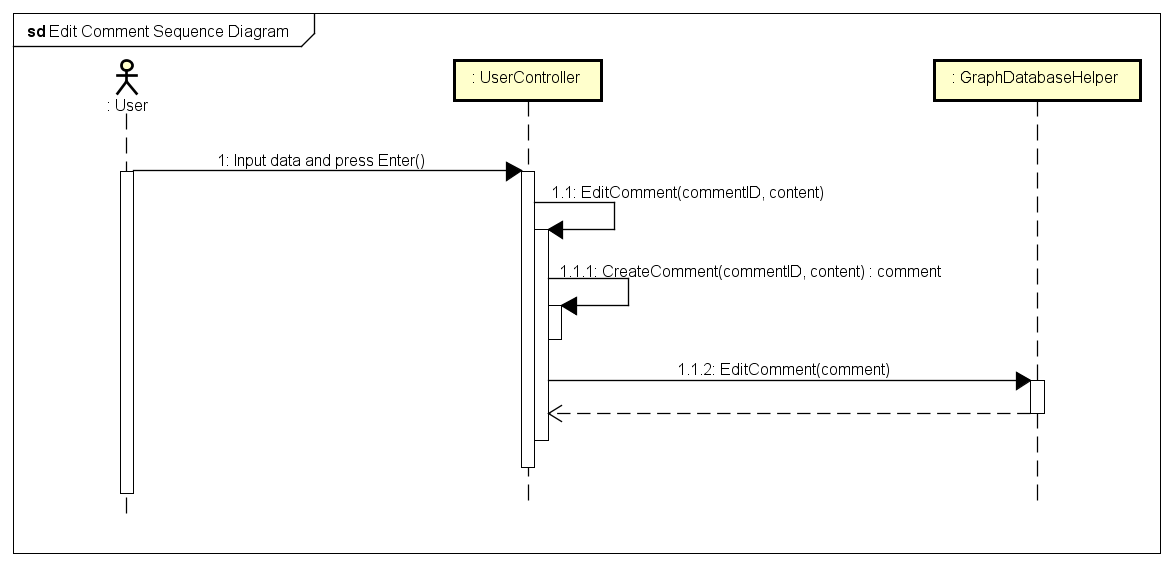
### Sequence Diagram

#### Add Comment



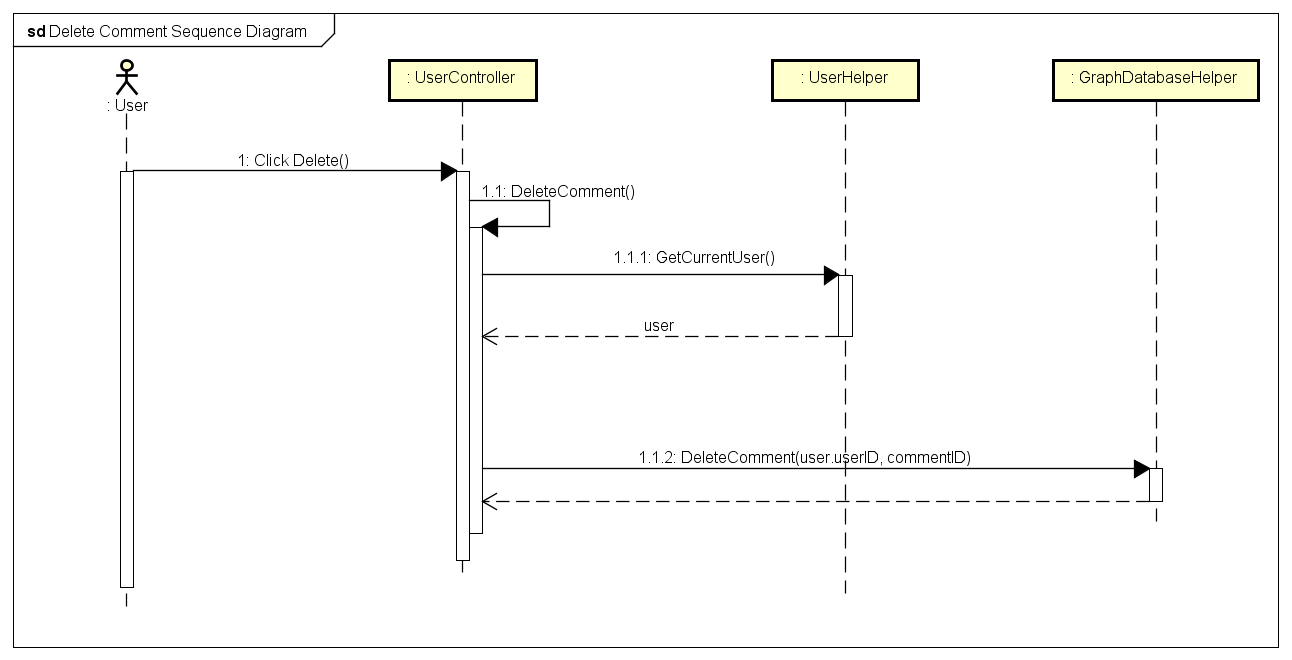
*Add Comment Sequence Diagram*

#### Edit Comment



*Edit Comment Sequence Diagram*

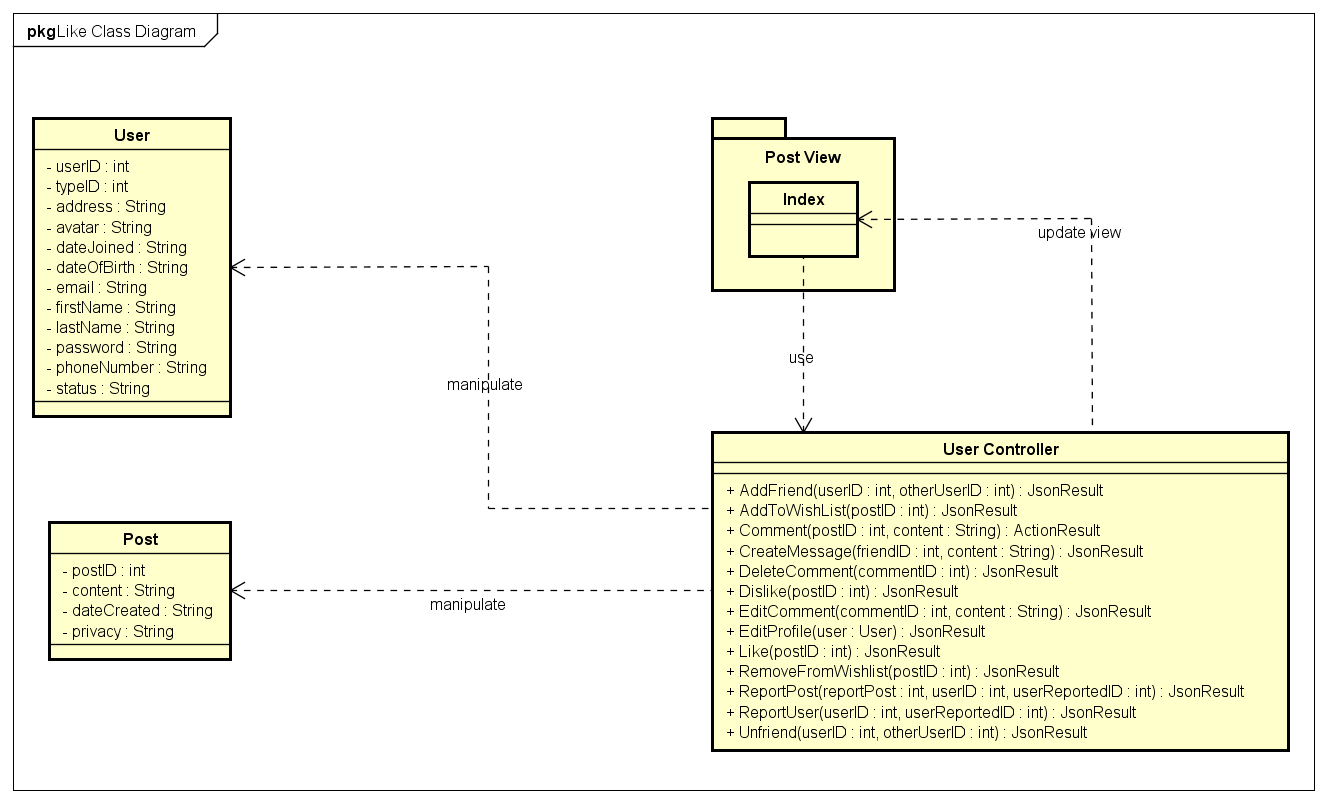
#### Delete Comment



*Delete Comment Sequence Diagram*

## Like Management

### Class Diagram



*Like Management Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | Post | Include method interact with Database |
|  | Index | Include method interact with Controller |
|  | User Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Post Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | postID | int |  |  | Post’s ID |
|  | content | String |  |  | Post’s content |
|  | dateCreated | String |  |  | Post’s created date. Auto-created while creating post |
|  | privacy | String |  |  | Post’s privacy |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### User Controller Class

#### Attributes

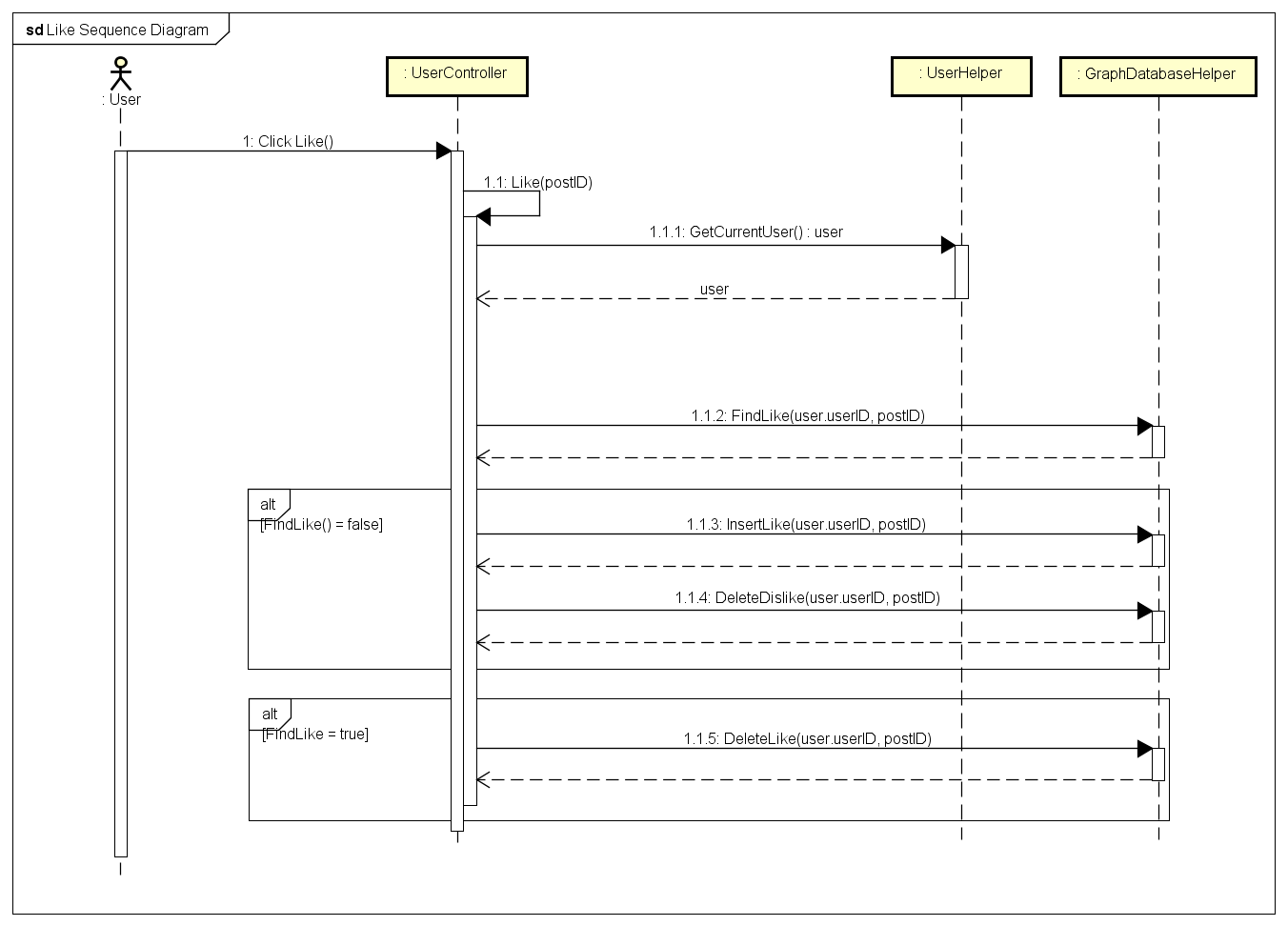
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | AddFriend | int, int | JsonResult | Add other users to friend list to get news, notification and messages |
|  | AddToWishlist | String | JsonResult | Add a post to wish list |
|  | Comment | int, String | ActionResult | Create a comment |
|  | CreateMessage | int, String | JsonResult | Send message to others |
|  | DeleteComment | int | JsonResult | Delete an owned comment |
|  | Dislike | int | JsonResult | Mark a post as dislike |
|  | EditComment | int, String | JsonResult | Edit content of an owned comment |
|  | EditProfile | user | JsonResult | Edit personal information |
|  | Like | int | JsonResult | Mark a post as liked |
|  | RemoveFromWishlist | int | JsonResult | Remove a post from wish list |
|  | ReportPost | int, int, int | JsonResult | Report a rule violation post |
|  | ReportUser | int, int | JsonResult | Report a rule violation user |
|  | Unfriend | int, int | JsonResult | Remove an user from friend list |

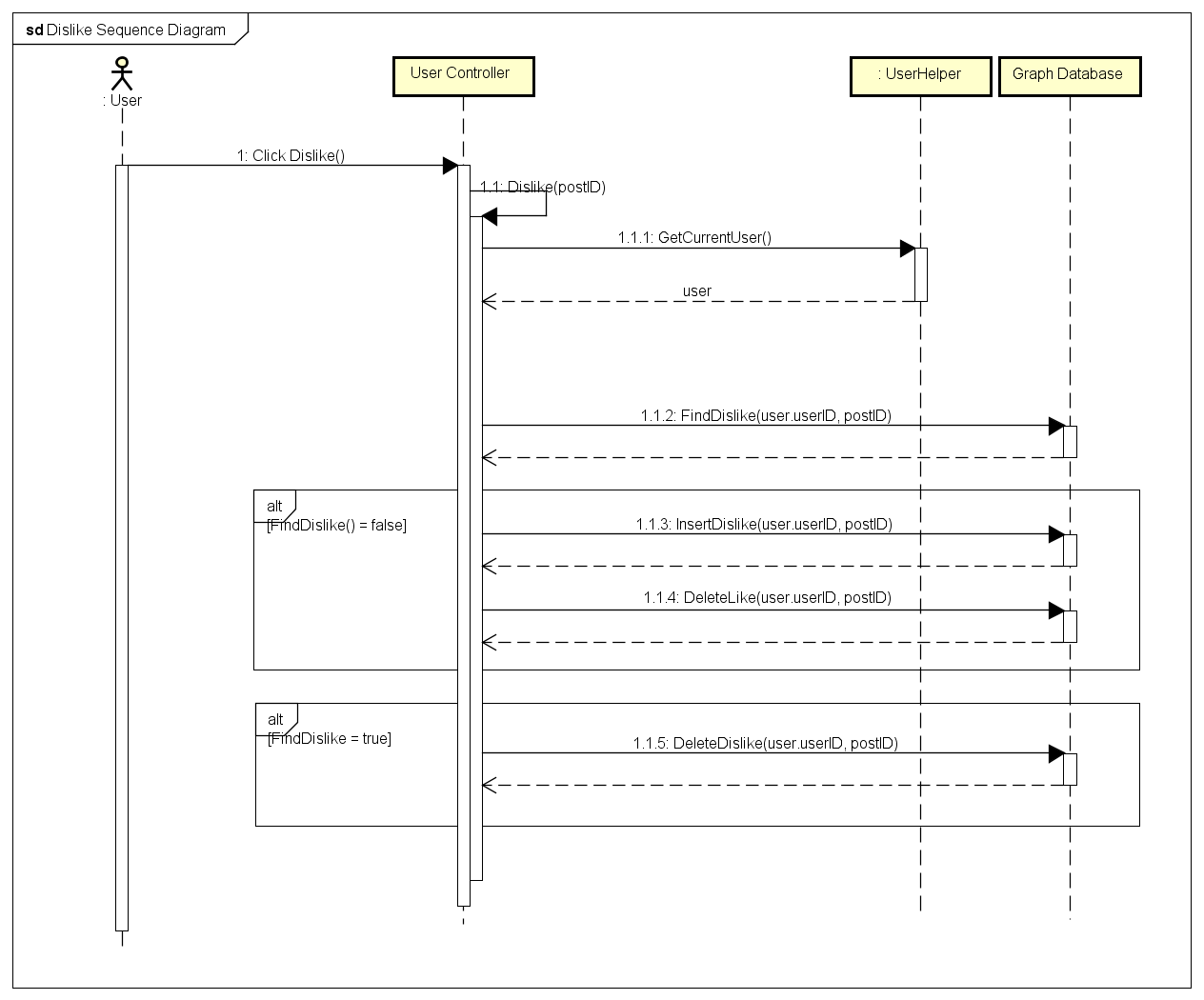
### Sequence Diagram

#### Like



*Like Sequence Diagram*

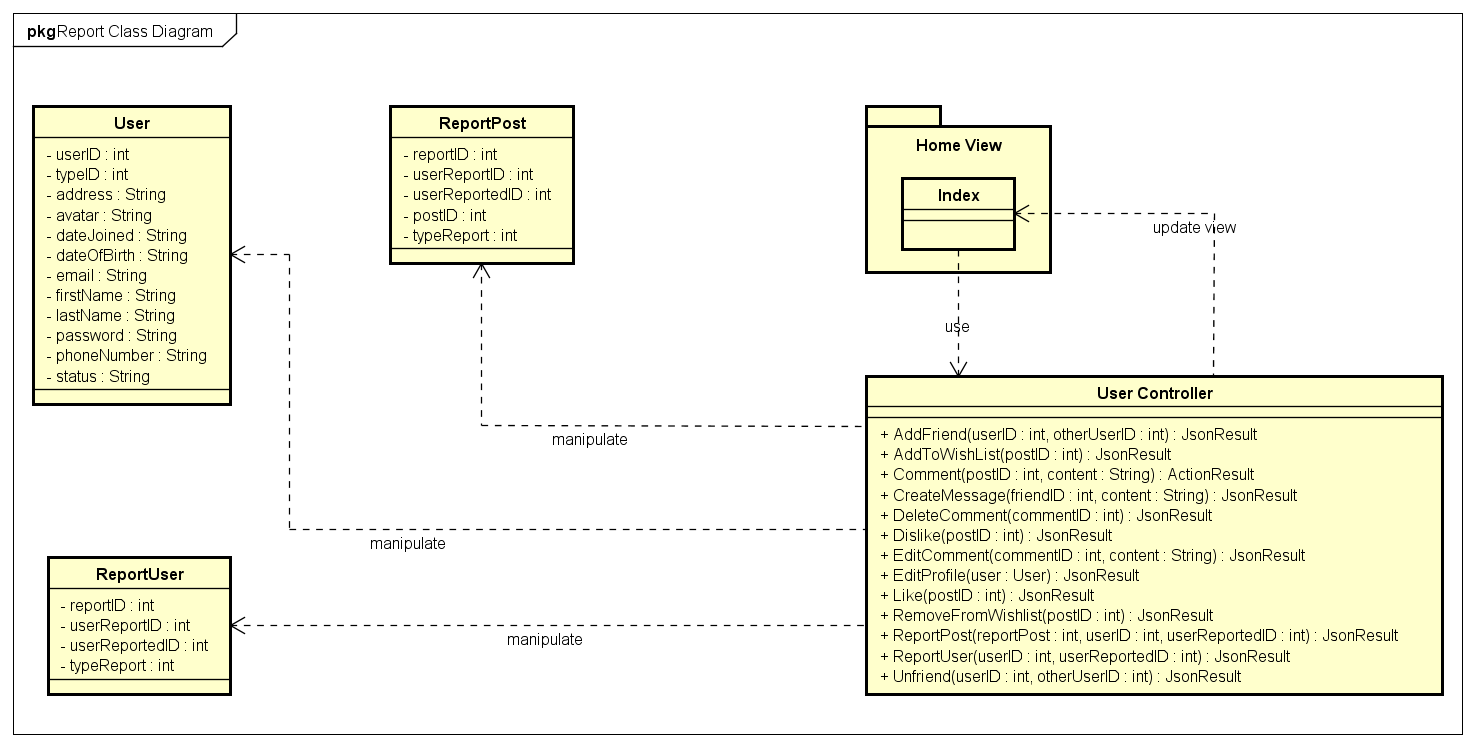
#### Dislike



*Dislike Sequence Diagram*

## Report

### Class Diagram



*Report Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | ReportPost | Include method interact with Database |
|  | ReportUser | Include method interact with Database |
|  | Index | Include method interact with Controller |
|  | User Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### ReportPost Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | reportID | int |  | public | Report’s ID |
|  | userReportID | int |  | public | ID of report created user |
|  | userReportedID | int |  | public | ID of be reported user |
|  | postID | int |  | public | ID of be reported post |
|  | typeReport | int |  | public | Report’s type |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### ReportUser Class

#### Attributes

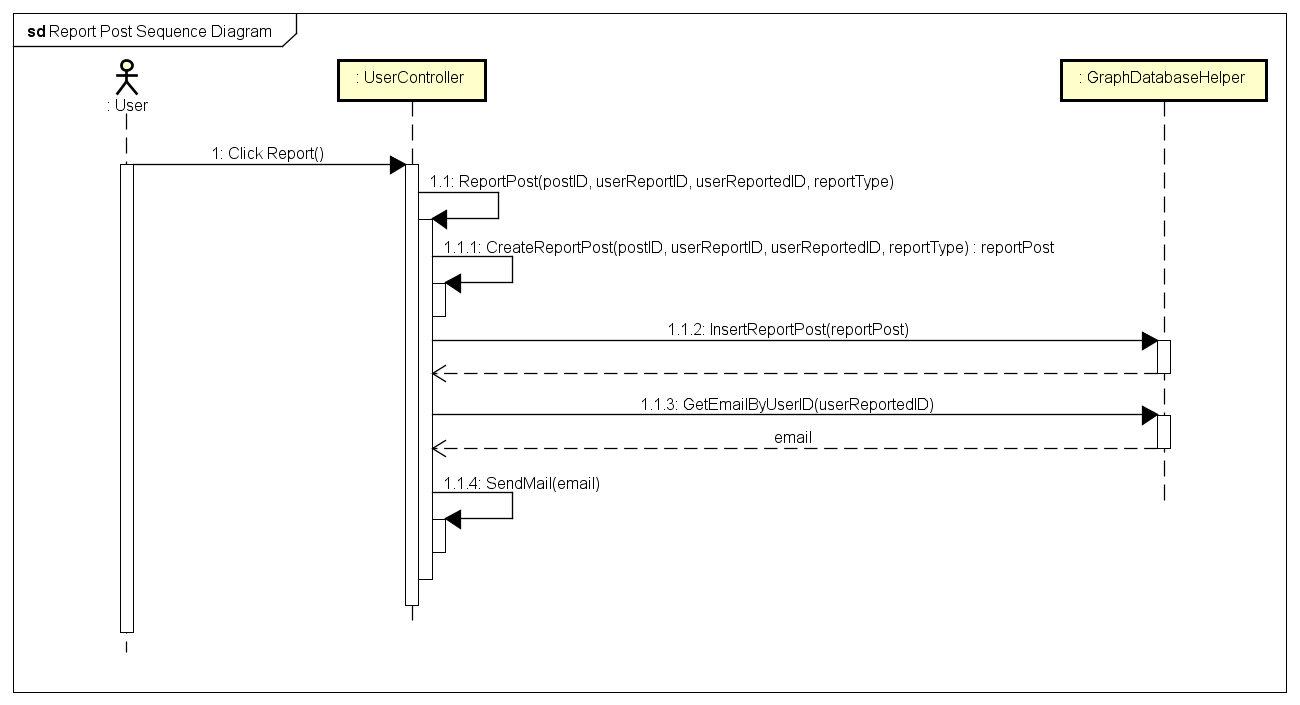
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | reportID | int |  | public | Report’s ID |
|  | userReportID | int |  | public | ID of report created user |
|  | userReportedID | int |  | public | ID of be reported user |
|  | typeReport | int |  | public | Report’s type |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

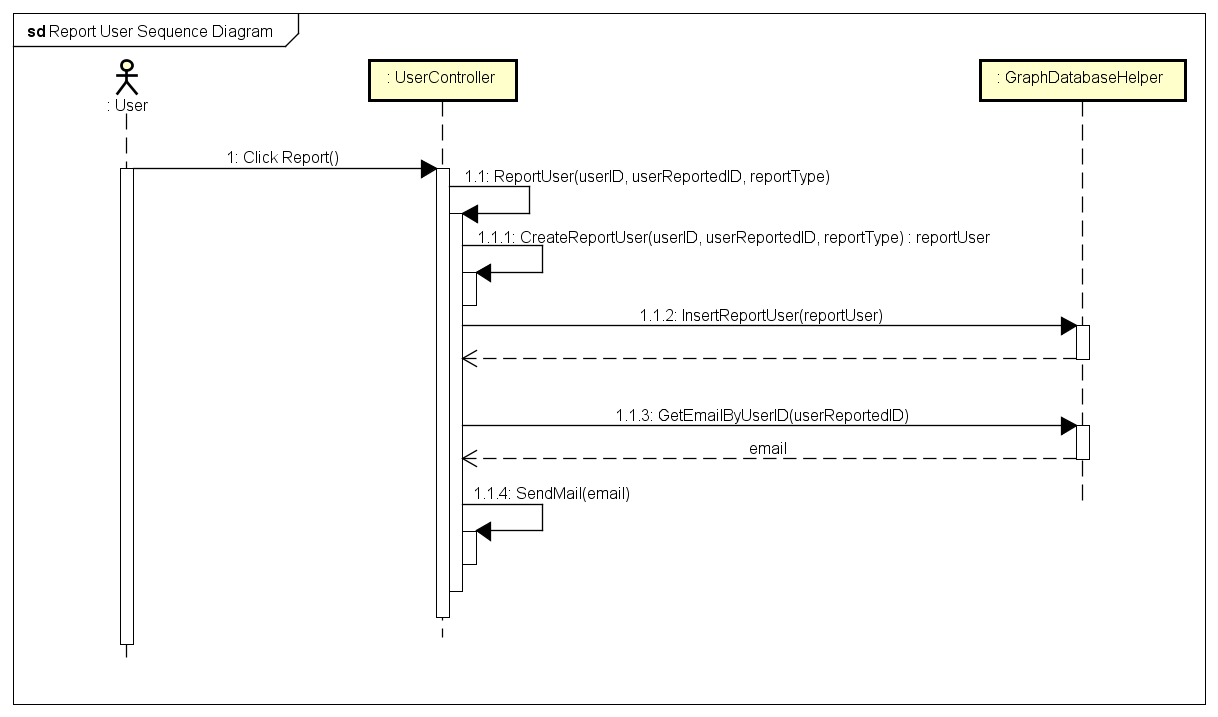
### Sequence Diagram

#### Report a post



*Report a Post Sequence Diagram*

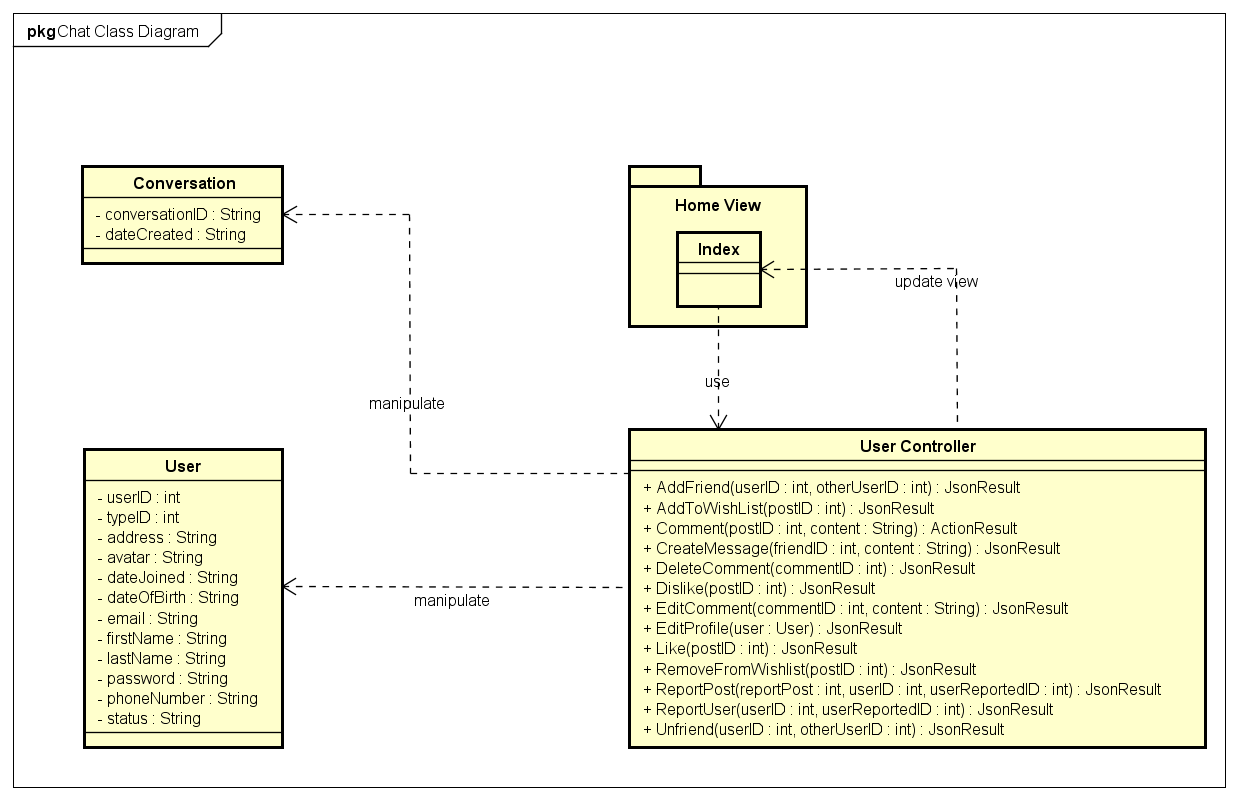
#### Report an user



*Report an User Sequence Diagram*

## Chat

### Class Diagram



*Chat Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | ReportPost | Include method interact with Database |
|  | ReportUser | Include method interact with Database |
|  | Index | Include method interact with Controller |
|  | User Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Conversation Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | conversationID | String |  | public | Conversation’s ID |
|  | dateCreated | String |  | public | Conversation’s created date. Auto-created while creating conversation |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### User Controller Class

#### Attributes

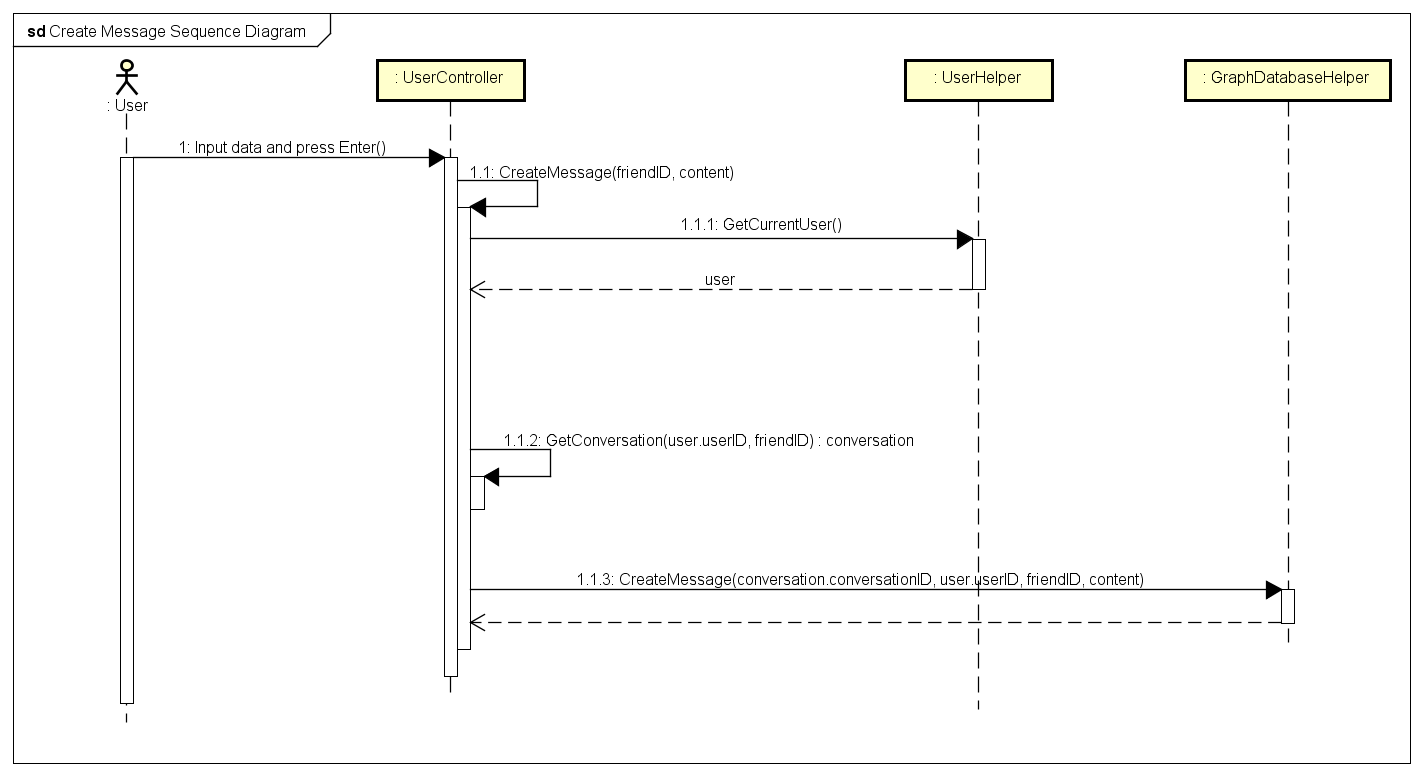
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | AddFriend | int, int | JsonResult | Add other users to friend list to get news, notification and messages |
|  | AddToWishlist | String | JsonResult | Add a post to wish list |
|  | Comment | int, String | ActionResult | Create a comment |
|  | CreateMessage | int, String | JsonResult | Send message to others |
|  | DeleteComment | int | JsonResult | Delete an owned comment |
|  | Dislike | int | JsonResult | Mark a post as dislike |
|  | EditComment | int, String | JsonResult | Edit content of an owned comment |
|  | EditProfile | user | JsonResult | Edit personal information |
|  | Like | int | JsonResult | Mark a post as liked |
|  | RemoveFromWishlist | int | JsonResult | Remove a post from wish list |
|  | ReportPost | int, int, int | JsonResult | Report a rule violation post |
|  | ReportUser | int, int | JsonResult | Report a rule violation user |
|  | Unfriend | int, int | JsonResult | Remove an user from friend list |

### Sequence Diagram

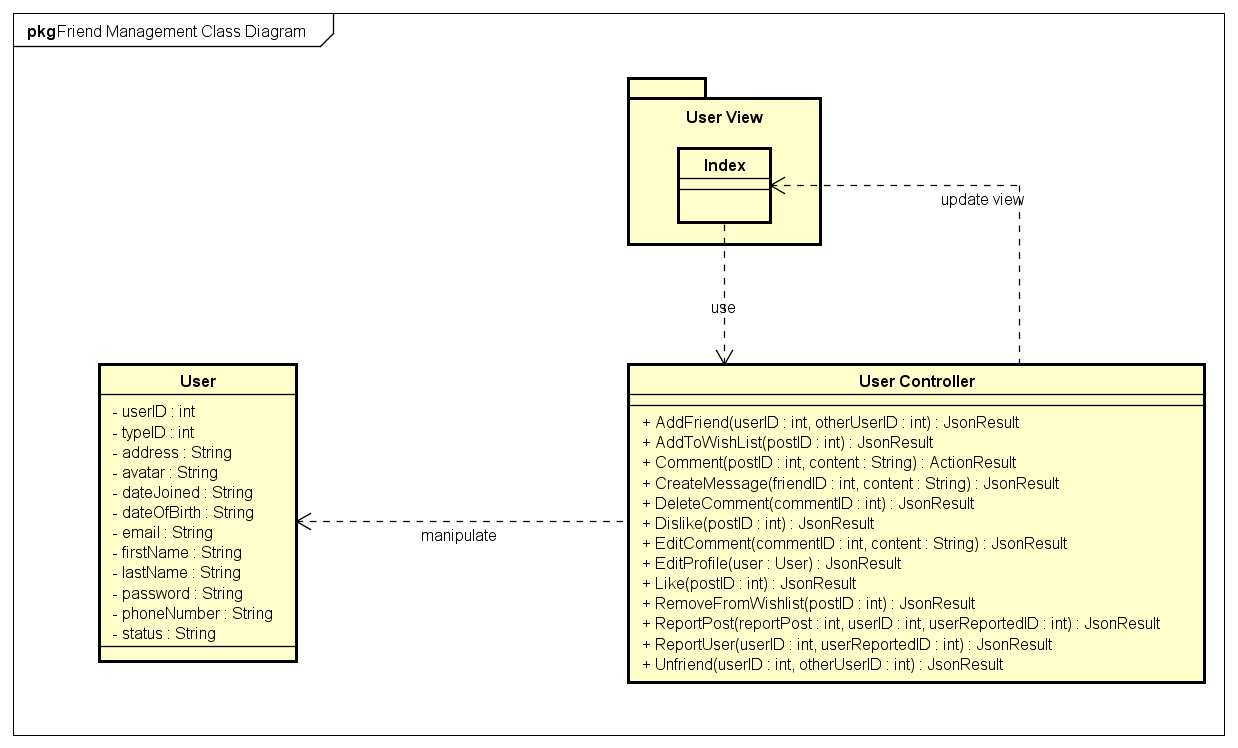
#### Chat



*Chat Sequence Diagram*

## Friend Management

### Class Diagram



*Friend Management Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | Index | Include method interact with Controller |
|  | User Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### User Controller Class

#### Attributes

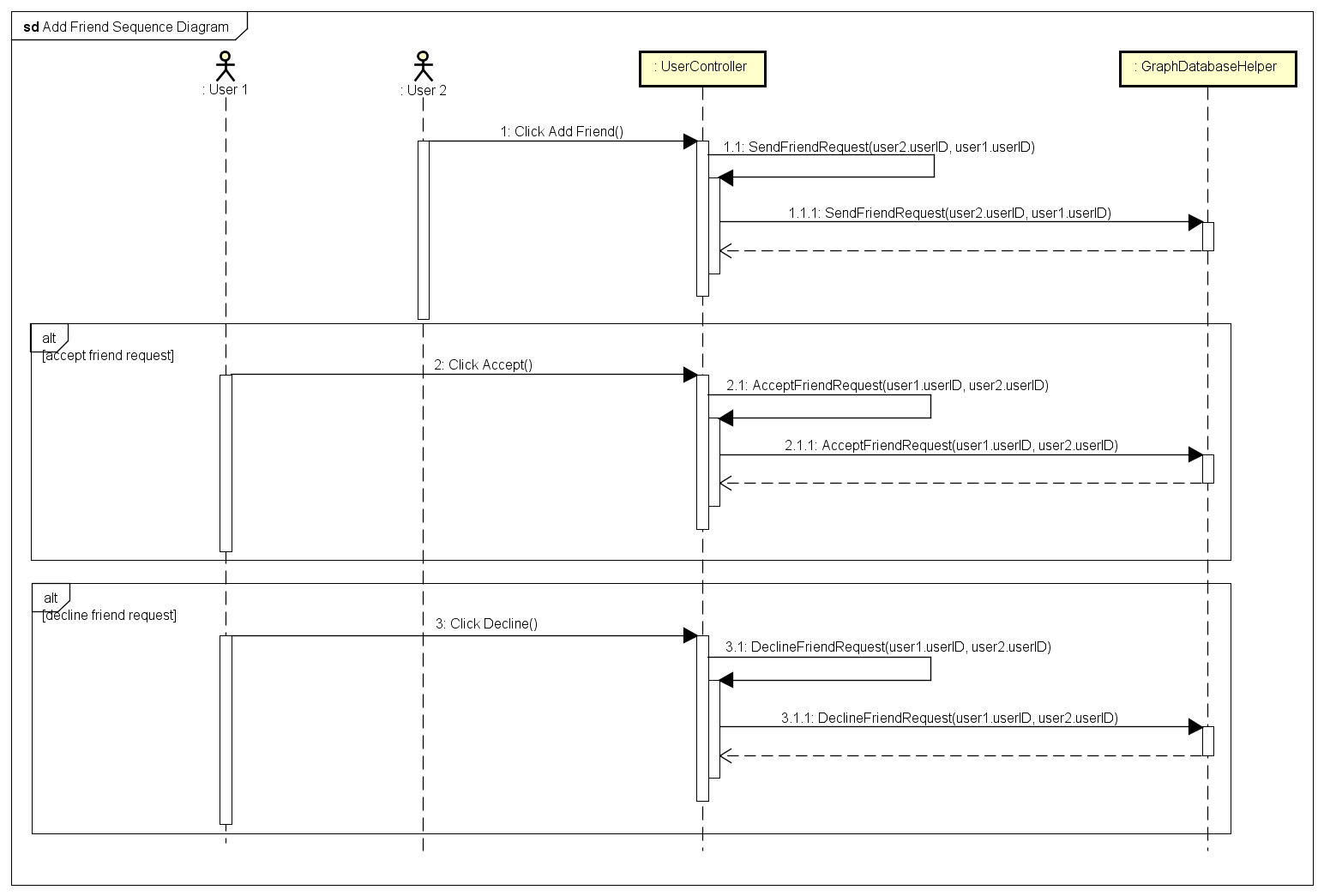
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | AddFriend | int, int | JsonResult | Add other users to friend list to get news, notification and messages |
|  | AddToWishlist | String | JsonResult | Add a post to wish list |
|  | Comment | int, String | ActionResult | Create a comment |
|  | CreateMessage | int, String | JsonResult | Send message to others |
|  | DeleteComment | int | JsonResult | Delete an owned comment |
|  | Dislike | int | JsonResult | Mark a post as dislike |
|  | EditComment | int, String | JsonResult | Edit content of an owned comment |
|  | EditProfile | user | JsonResult | Edit personal information |
|  | Like | int | JsonResult | Mark a post as liked |
|  | RemoveFromWishlist | int | JsonResult | Remove a post from wish list |
|  | ReportPost | int, int, int | JsonResult | Report a rule violation post |
|  | ReportUser | int, int | JsonResult | Report a rule violation user |
|  | Unfriend | int, int | JsonResult | Remove an user from friend list |

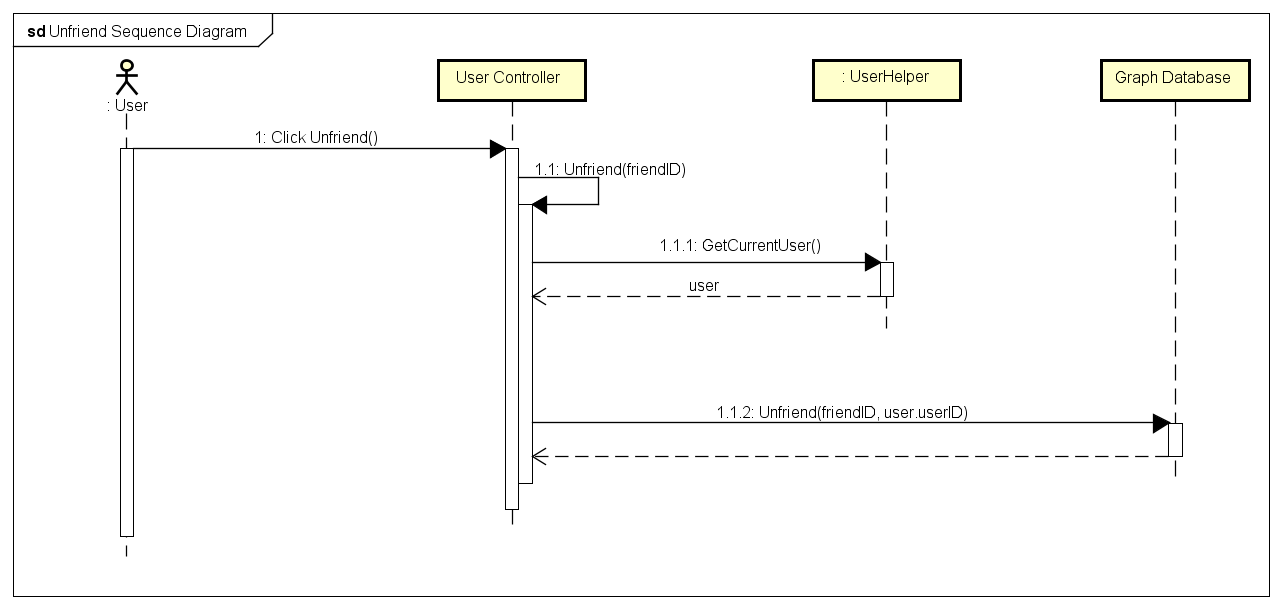
### Sequence Diagram

#### Add Friend



*Add Friend Sequence Diagram*

#### Unfriend

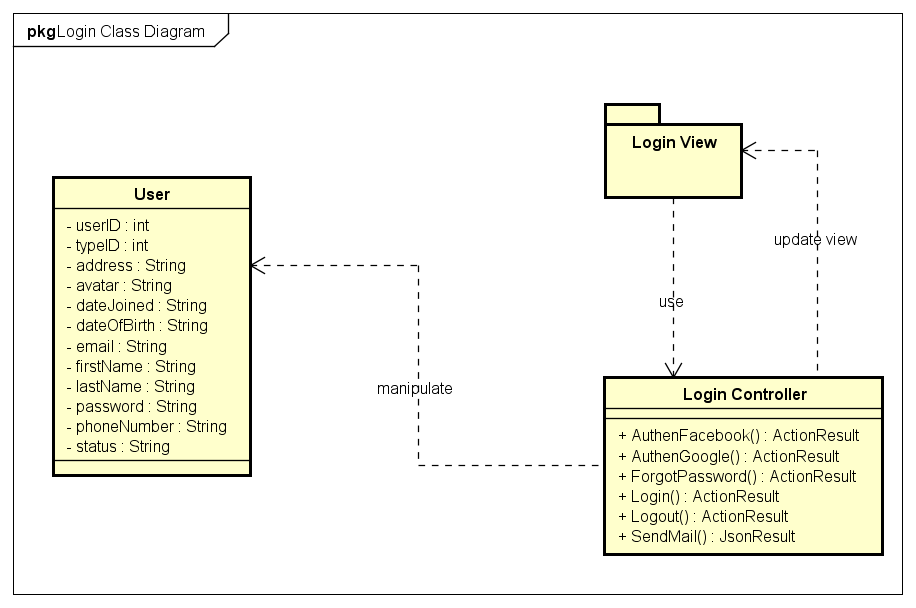


*Unfriend Sequence Diagram*

## Room (Undone)

## Account Management

### Class Diagram



*Account Management Class Diagram*

|  |  |  |
| --- | --- | --- |
| No. | Class Name | Description |
|  | User | Include method interact with Database |
|  | Login | Include method interact with Controller |
|  | Login Controller | Include method interact with Model |

### User Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  | userID | int |  | public | User’s ID |
|  | typeID | int |  | public | User’s type, includes: Normal, Facebook, Google+ registered |
|  | address | String |  | public | User’s address |
|  | avatar | String |  | public | User’s avatar image |
|  | dateJoined | String |  | public | User’s joined date. Auto-created while registering |
|  | dateOfBirth | String |  | public | User’s date of birth |
|  | email | String |  | public | User’s email |
|  | firstName | String |  | public | User’s first name |
|  | lastName | String |  | public | User’s last name |
|  | password | String |  | public | User’s password |
|  | phoneNumber | String |  | public | User’s phone number |
|  | status | String |  | public | User’s status, includes: Lock and Active |

#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  |  |  |  |  |

### Login Controller Class

#### Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attributes | Type | Default | Note | Description |
|  |  |  |  |  |  |

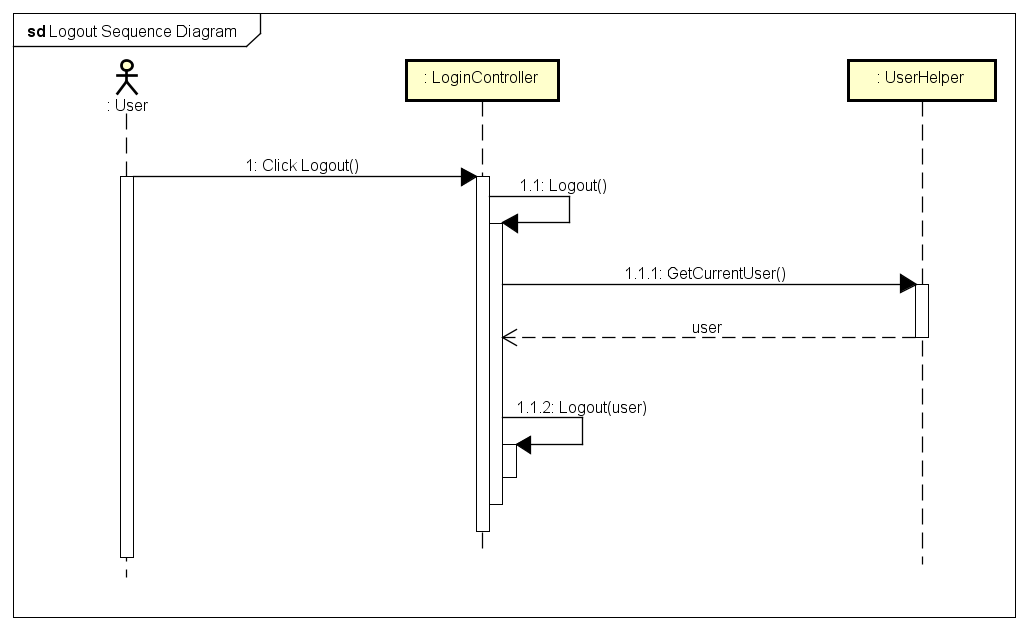
#### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Method | Input | Return | Description |
|  | AuthenFacebook |  |  | User login with Facebok |
|  | AuthenGoogle |  |  | User login with Google+ |
|  | ForgotPassword |  |  | Set user’s password to a random string and send to user |
|  | Login |  |  | User login with registered account |
|  | Logout |  |  | User logout from FAP |
|  | SendMail |  |  | Send mail to user |

### Sequence Diagram

#### Login (Undone)

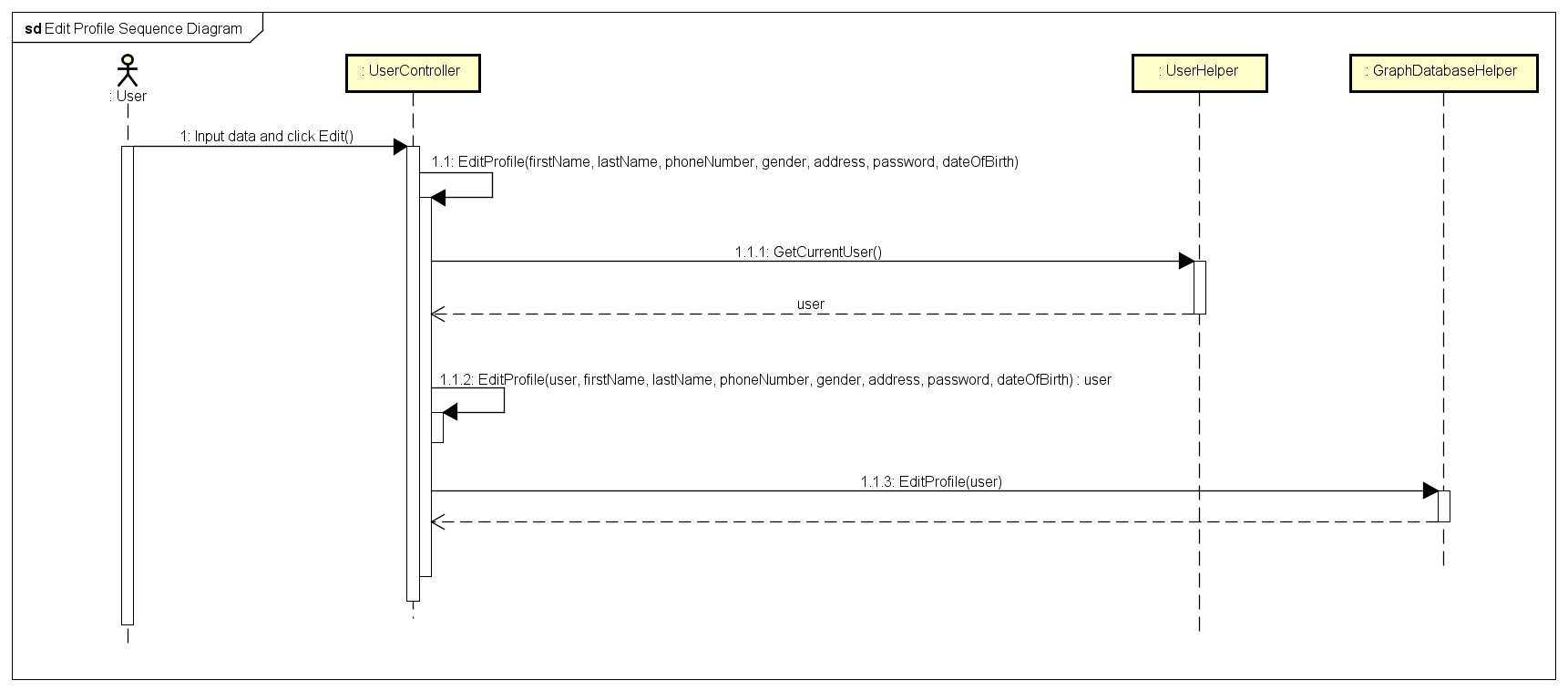
#### Logout



*Logout Sequence Diagram*

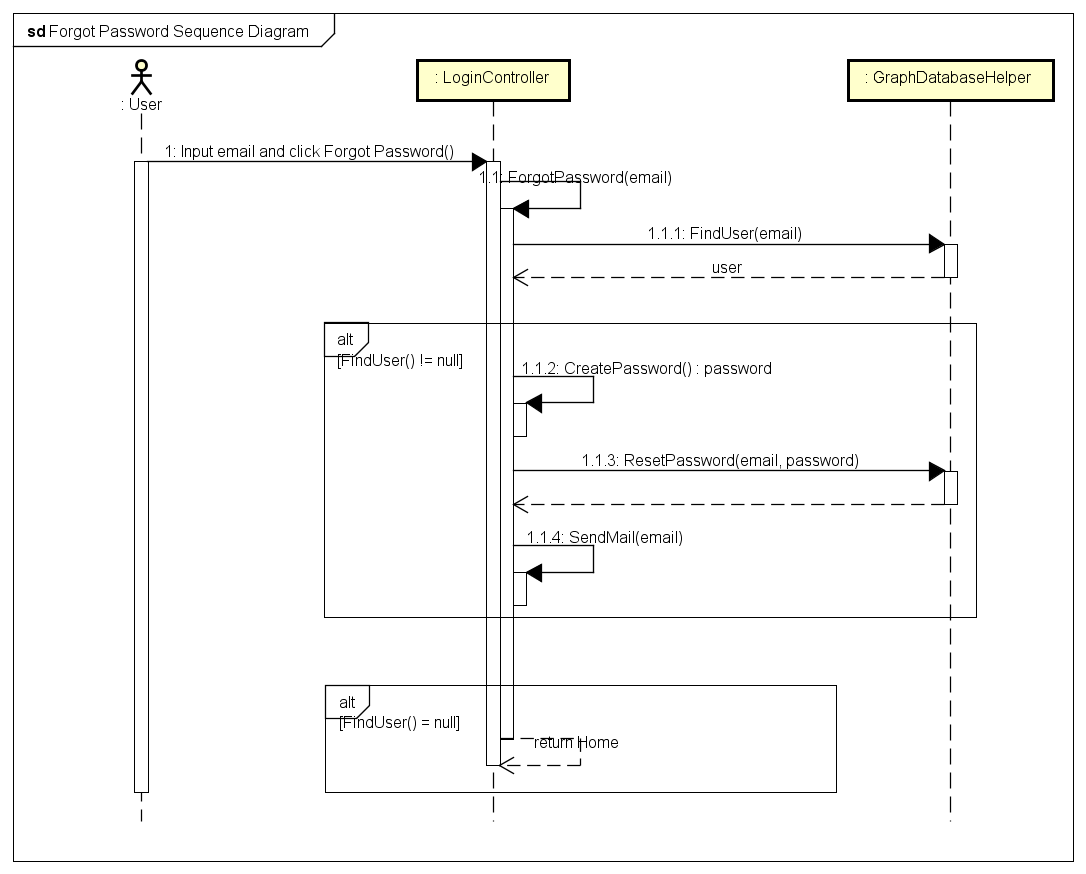
#### Register (Undone)

#### Edit Profile



*Edit Profile Sequence Diagram*

#### Forgot Password



*Forgot Password Sequence Diagram*