Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

Project Name

Software Design

Team Names

Month & Year

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# Team

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# Document Purpose and Audience

This Software Requirements Specification (SRS) provides an overview of the purpose, scope, functional requirements, non-functional requirements and overview of the project.

The aim of this document analyze and give an in-depth insight of the complete API by defining the problem statement in detail.

The audience to read this document client, project manager, system analysis, system designer, developer.

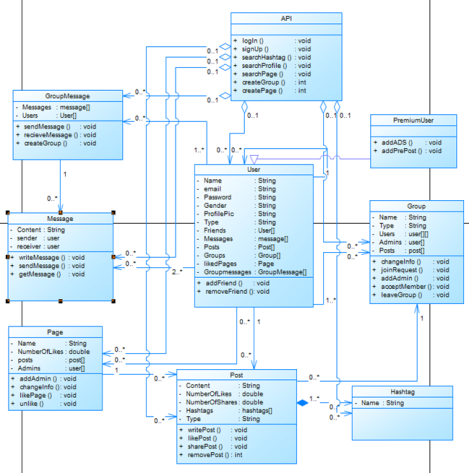
# System Models

## System Decomposition

## 

## 

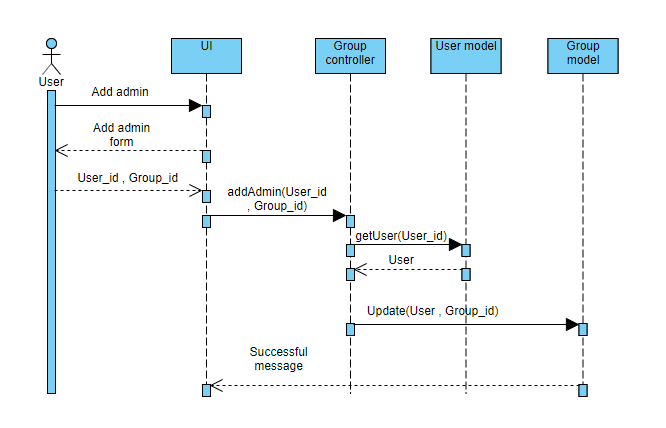
## Class diagrams



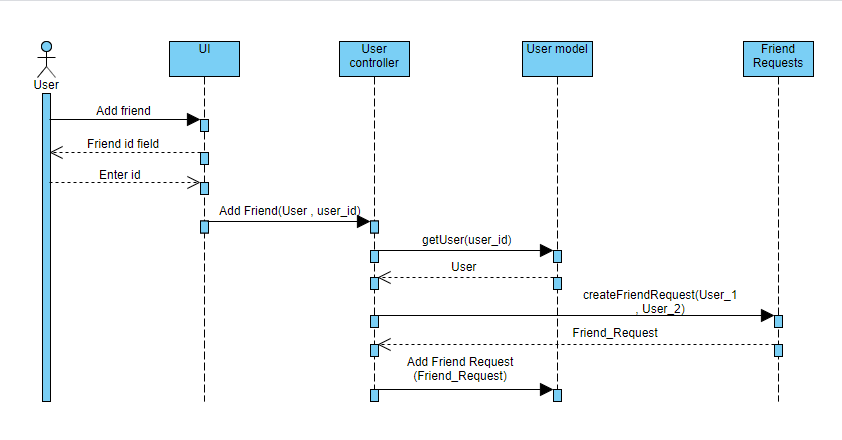
| **Class ID** | **Class Name** | **Subsystem ID** | **Description & Responsibility** |
| --- | --- | --- | --- |
| 1 | UI | User interface | Organize functions between other classes |
| 2 | Group controller, Private group controller, public group controller | Group controllers | Make functions of Group |
|  | Group, group request | Group Management | Entities |
| 3 | Message controller | Message Controllers | Make functions of message |
| 4 | Message, userMessage, messageGroup. | Message  management | Entities |
| 5 | Page controller | page  controllers | Make functions of page |
| 6 | Page | Page  management | Entity |
| 7 | Post Controller | Post controller | Make functions of Post |
| 8 | Post, HashTag | post management | Entties |
| 9 | User, payment, friendRequest | User management | Entities |
| 10 | userController, normalUserController, premiumUserController | User controllers | Make functions of User |
| 11 | User model, page model, group model , post model , message model , |  |  |

## Sequence diagrams

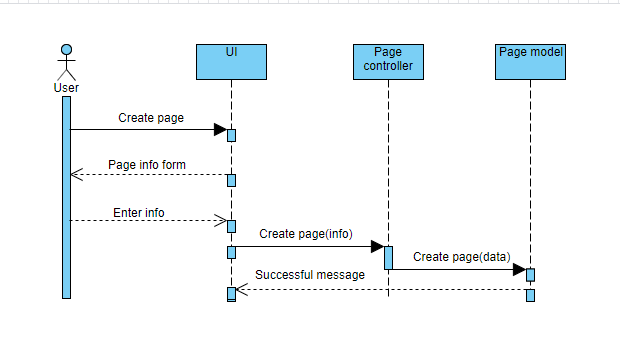
1. Add group Admin



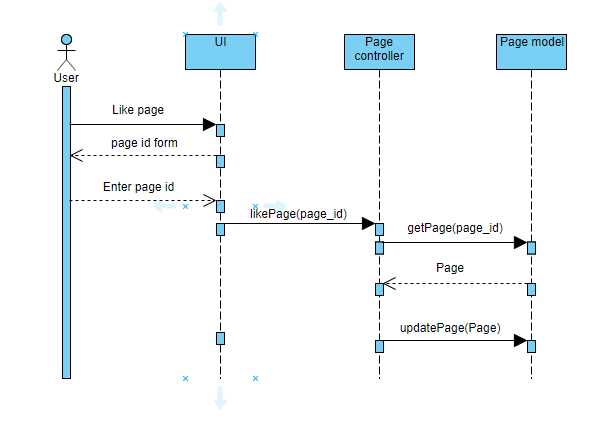
1. Add friend



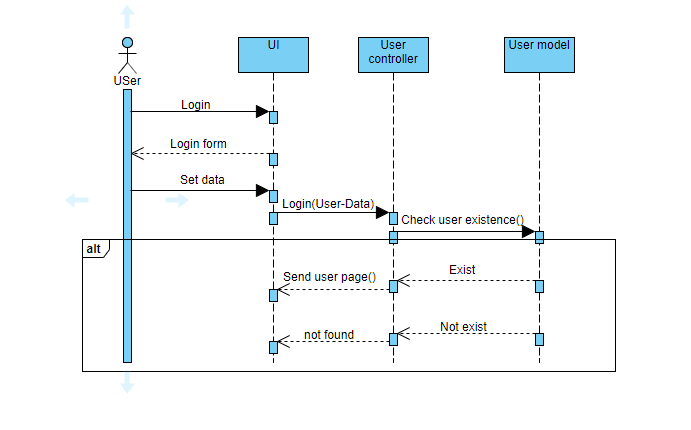
1. Create page



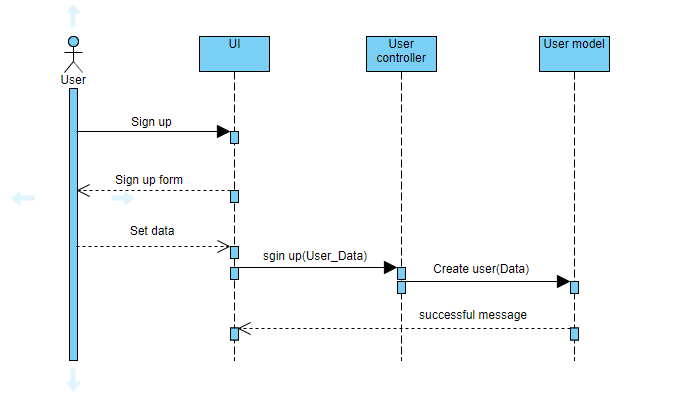
1. Like Page



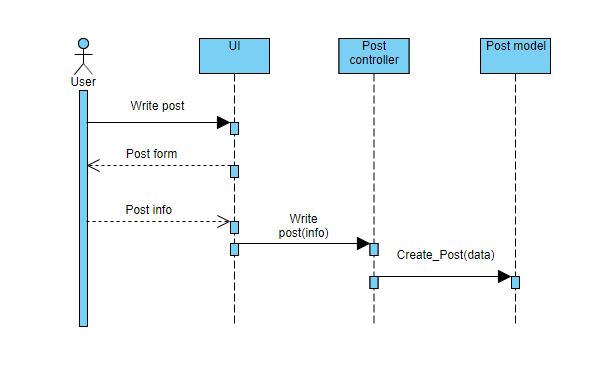
1. Sign in



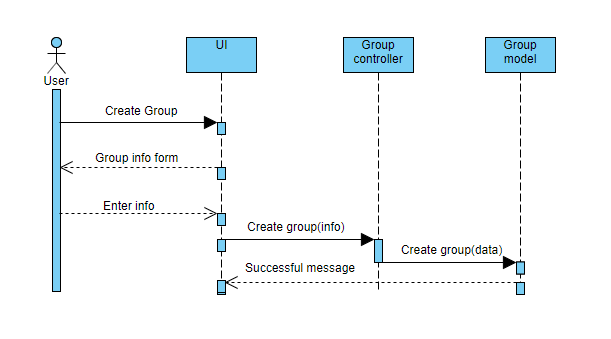
1. Signup



1. Write Post



1. Create group



### 

### Class - Sequence Usage Table

| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| UI | 1,2,3,4,5,6,7,8 | Get data |
| Group controller | 1,8 | Make functions of Group |
| Group model | 1,8 | Save data |
| Post controller | 7 | Create post |
| Post model | 7 | Save data |
| User controller | 2, 5, 6 | Make functions if user |
| User model | 1, 2, 5, 6 | Save date |

|  |  |  |  |
| --- | --- | --- | --- |
| **BR#**  **( business/functional requirement number )** | **Use Case ID** | **Class(es) Name(s)** | **component** |
| User | 29,31,34,35 | User , premium user, normal user | User management |
| Group | 5,6,7,8,9,10,11 | Group , private group , public group | Group management |
| Message | 23,24,25,26,32 | Message , Message Group | Message management |
| Post | 5,14,18,19,20,21,22,27 | Post | Post management |
| Hashtag | 27 | Hashtag | Post management |
| Page | 13,15,16,33 | Page | Page management |
| Ui | 1,2,3,4,12,17,28,30 | UI , Page | User interface & Page management |

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Sequence Diagram | *Ibrahim Ramadan*  *Atef Magdy*  *Mohamed Mostafa*  *Ahmed Sayed* |
| Component Diagram | *Mohamed Mostafa*  *Ibrahim Ramadan*  *Atef Magdy*  *Ahmed Sayed* |
| Modifying phase1 | *Ibrahim Ramadan*  *Mohamed Mostafa* |

# References

# Authors