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

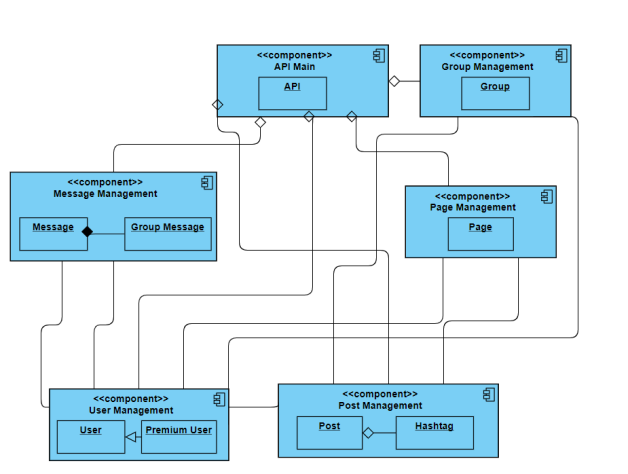
This Software Requirements Specification (SRS) provides an overview of the purpose, scope, functional requirements, non-functional requirements and overview of the project.

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.

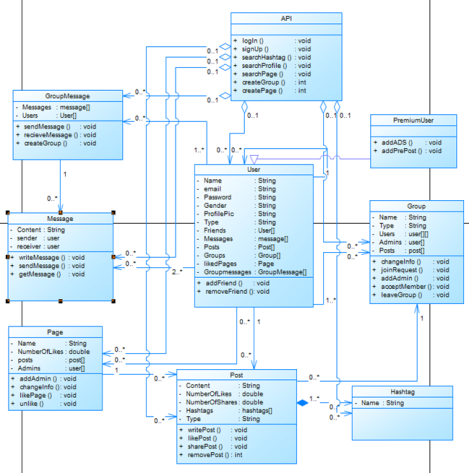
# System Models

## System Decomposition



## 

## Class diagrams



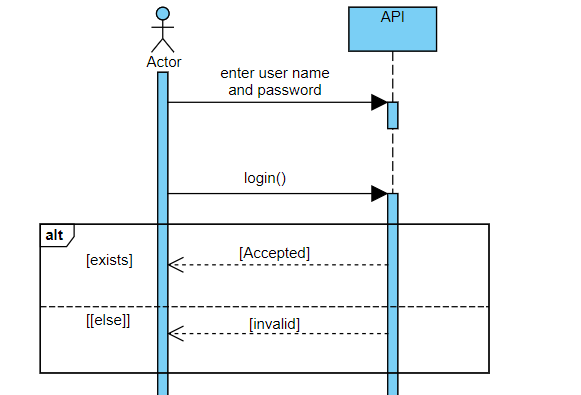
| **Class ID** | **Class Name** | **Subsystem ID** | **Description & Responsibility** |
| --- | --- | --- | --- |
| 1 | API | API main | Organize functions between other classes |
| 2 | Group | Group management | Make functions of Group |
| 3 | Message | Message  management | Make functions of message |
| 4 | Group Message | Message  management | Make functions of group message |
| 5 | Page | page  management | Make functions of page |
| 6 | user | user  management | Make functions of user |
| 7 | Premium user | user  management | Make functions of Premium user |
| 8 | Post | post management | Make functions of post |
| 9 | Hashtag | post management | Make functions of hashtag |

### 

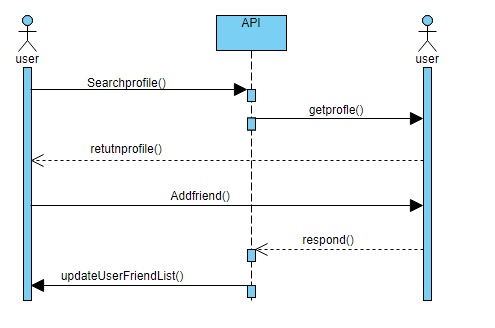
### Important Algorithm

## Sequence diagrams

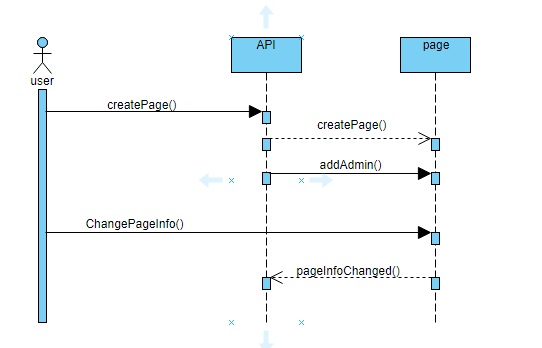
1. Login



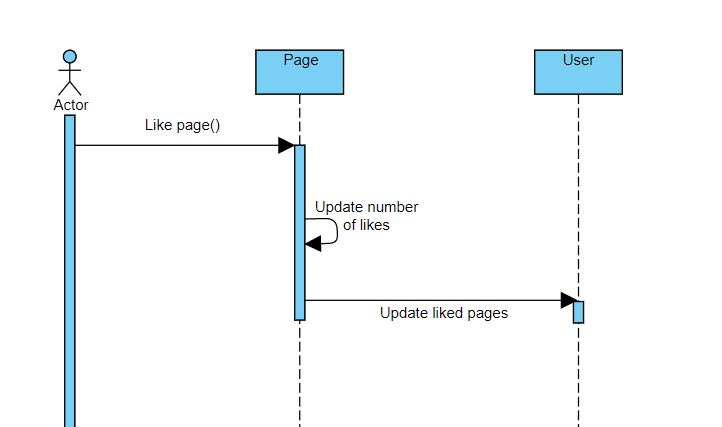
1. Add friend



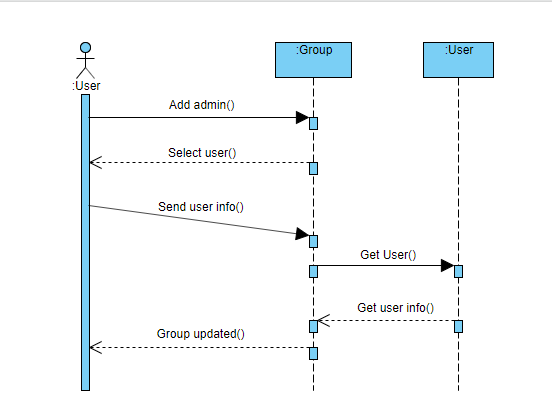
1. Create page



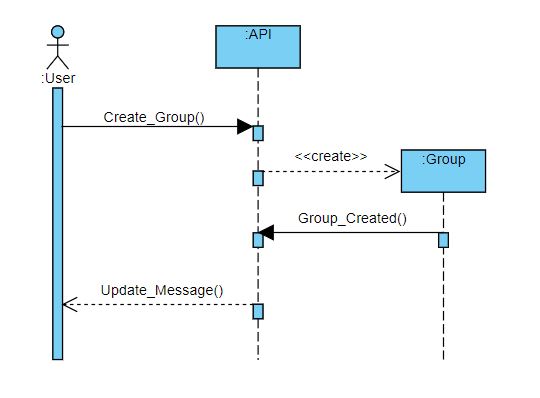
1. Like Page



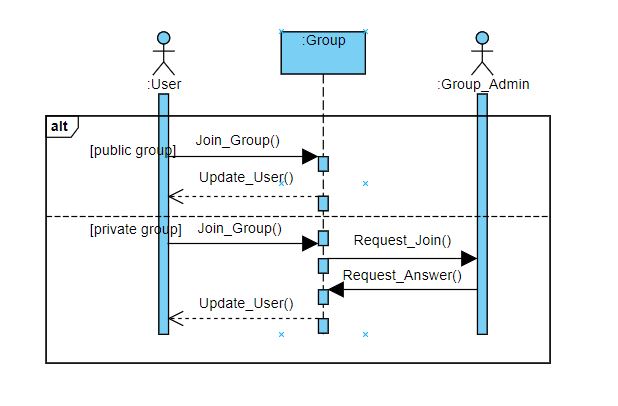
1. Add admin



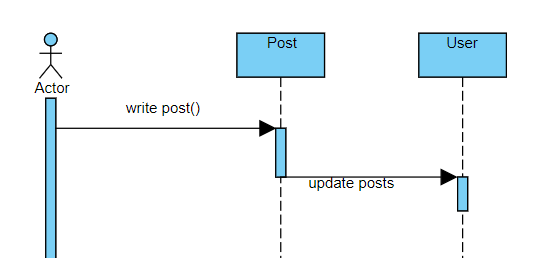
1. Create Group



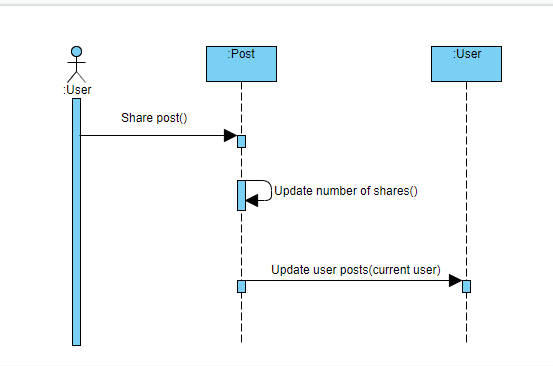
1. Join Group



1. Write Post



1. Share Post



### 

### Class - Sequence Usage Table

| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| API | 1,3,6 | GetData |
| User | 2 | saveData |
| Page | 4,5 | saveData |
| Group | 7 | saveData |
| Post | 8,9 | SaveData |

|  |  |  |  |
| --- | --- | --- | --- |
| **BR#**  **( business/functional requirement number )** | **Use Case ID** | **Class(es) Name(s)** | **component** |
| User | 29,31,34,35 | User , premium user | User management |
| Group | 5,6,7,8,9,10,11 | 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 |
| API | 1,2,3,4,12,17,28,30 | API , Page | Api main & 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