Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

Software API

Software Design

Team Names

Month & Year

Contents

[Instructions [To be removed] 3](#_Toc25570060)

[Team 3](#_Toc25570061)

[Document Purpose and Audience 3](#_Toc25570062)

[System Models 3](#_Toc25570063)

[I. System Decomposition 3](#_Toc25570064)

[II. Class diagrams 6](#_Toc25570065)

[Important Algorithm 7](#_Toc25570066)

[III. Sequence diagrams 7](#_Toc25570067)

[Class - Sequence Usage Table 9](#_Toc25570068)

[Ownership Report 10](#_Toc25570069)

[Policy Regarding Plagiarism: 10](#_Toc25570070)

[References 10](#_Toc25570071)

[Authors 10](#_Toc25570072)

# Team

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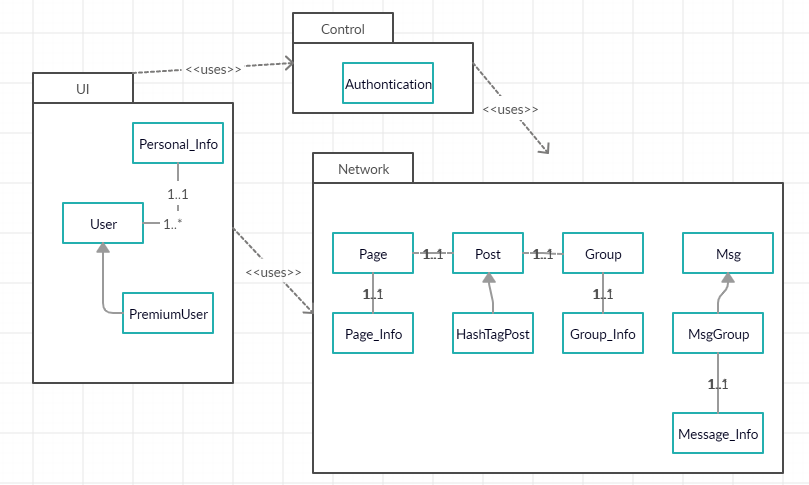
# Document Purpose and Audience

Purpose : This document describe the diagrams for Designing API for social media network.

Audience: Software Developers ,CEO , Analyst and the client

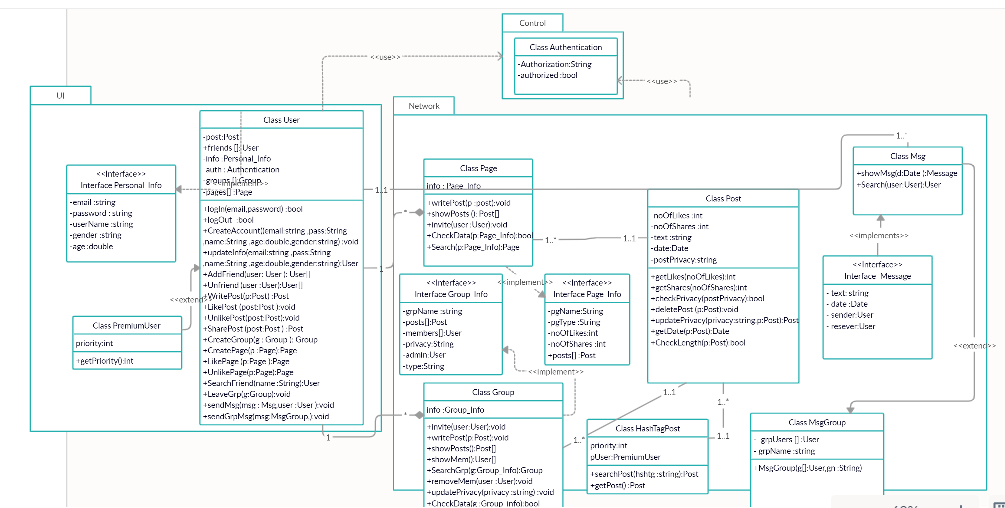
System Models

## I. System Decomposition

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## 

## II. Class diagrams

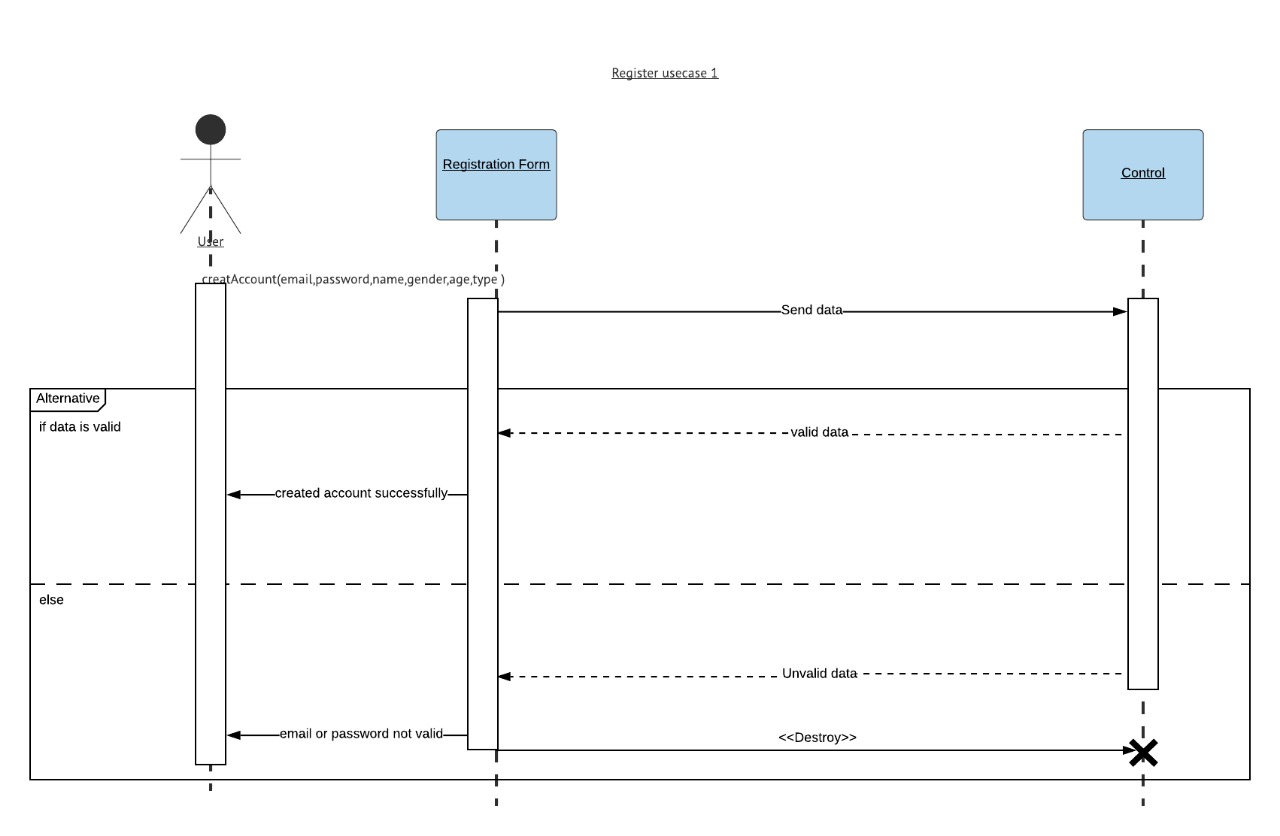


Link if the Picture is un clear : <https://app.creately.com/diagram/2yOkCvDHu2f/edit>

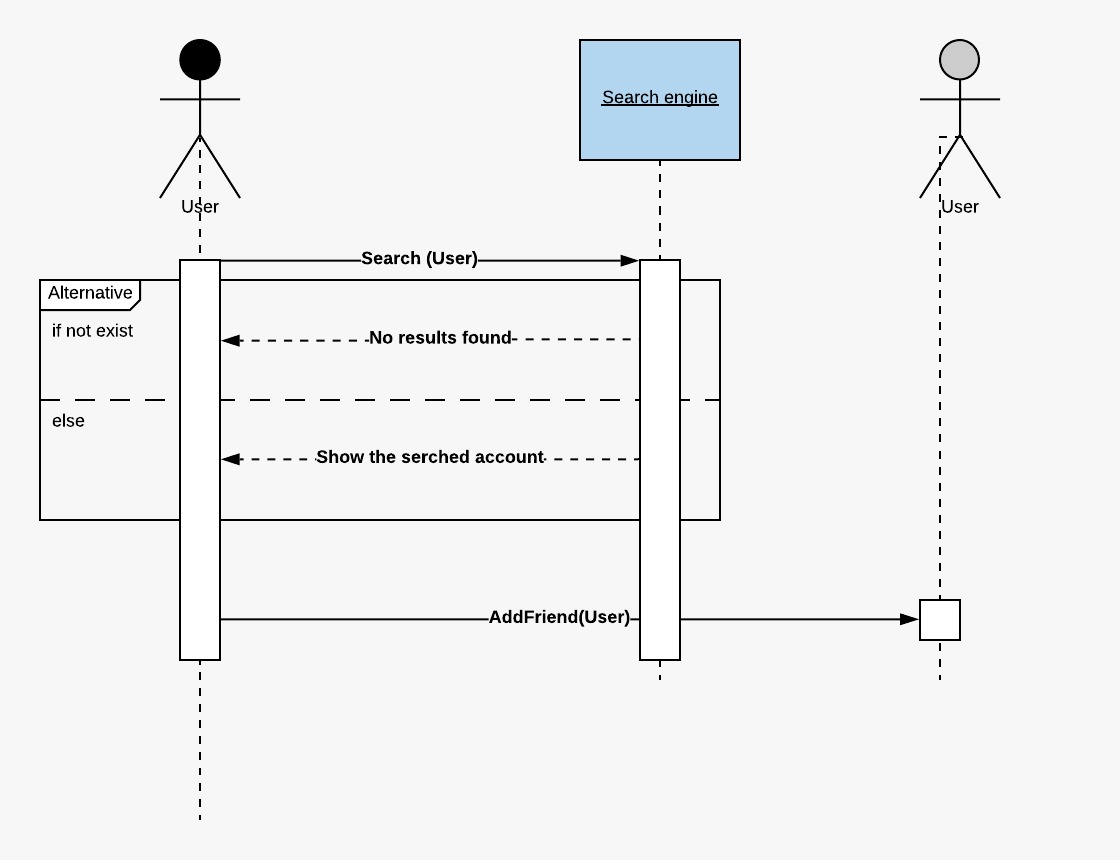
| **Class ID** | **Class Name** | **Subsystem ID** | **Description & Responsibility** |
| --- | --- | --- | --- |
| 1 | User | 1 | Contains all functions that user can do in the system |
| 2 | PremiumUser | 1 | Contains all info required for premium user |
| 3 | Personal\_Info | 1 | Contains all information for user |
| 4 | Group | 2 | Contains the functions that user can do with the group |
| 5 | Group\_info | 2 | Contains all information for group |
| 6 | Page | 2 | Contains functions that required for user to deal with Page |
| 7 | Page\_Info | 2 | Contains all information for Page |
| 8 | Msg | 2 | This class communicated between user and his friend to chat with each other |
| 9 | MsgGroup | 2 | This class allow user to create chat group and send message to them |
| 10 | Post | 2 | Class is responsible for managing any post the user writes |
| 11 | HashTagPost | 2 | Class manges the # posts and how to find a specific post |
| 12 | Authentication | 3 | The class that controls the correctness of every input . |

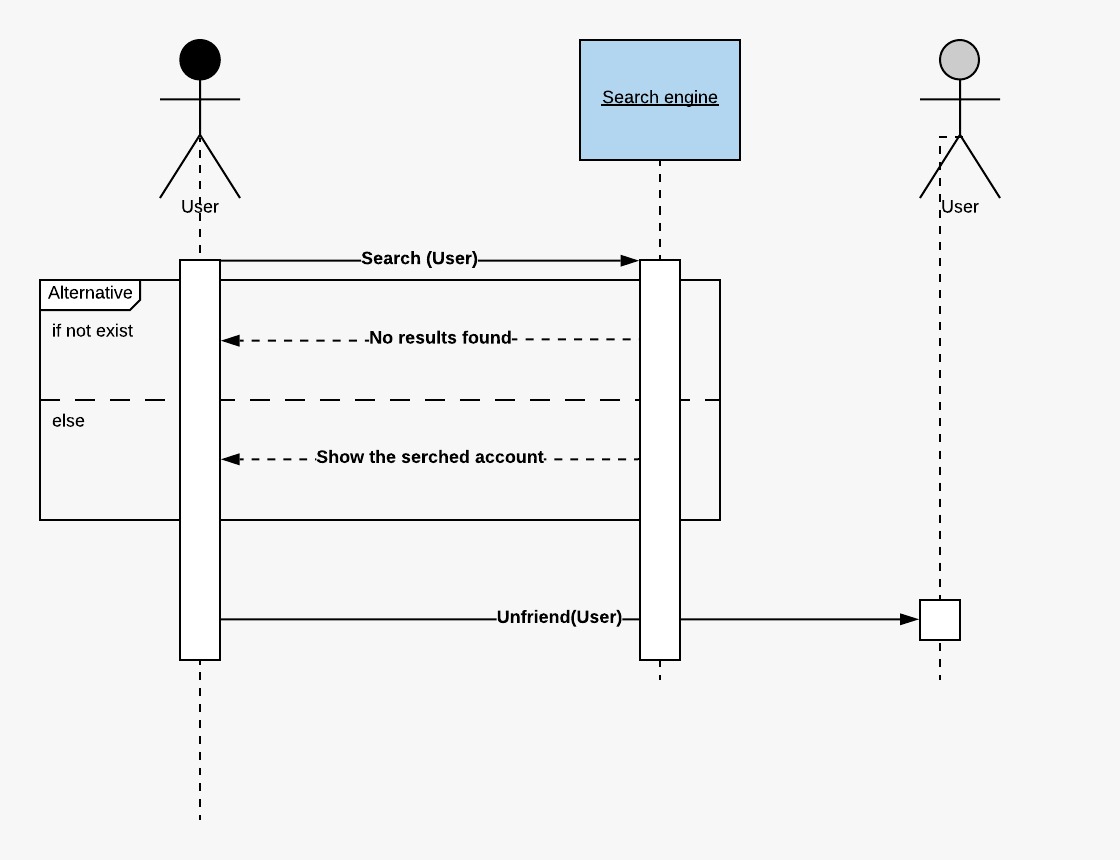
## III. Sequence diagrams

2.1 SN\_1 Register

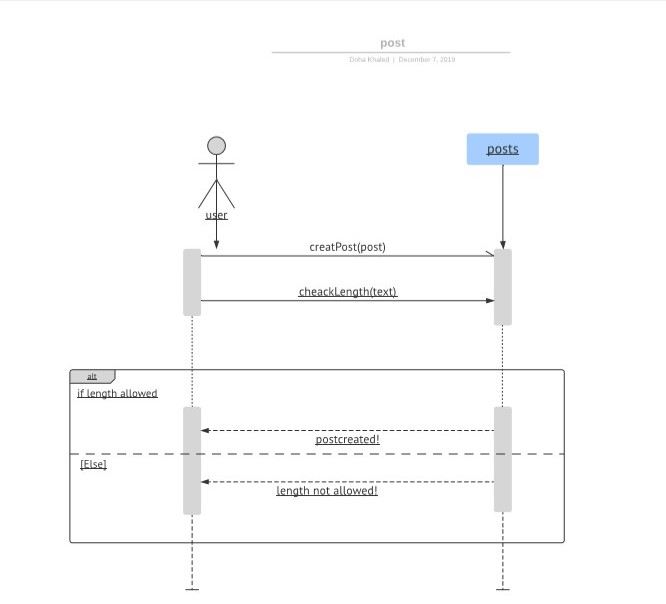


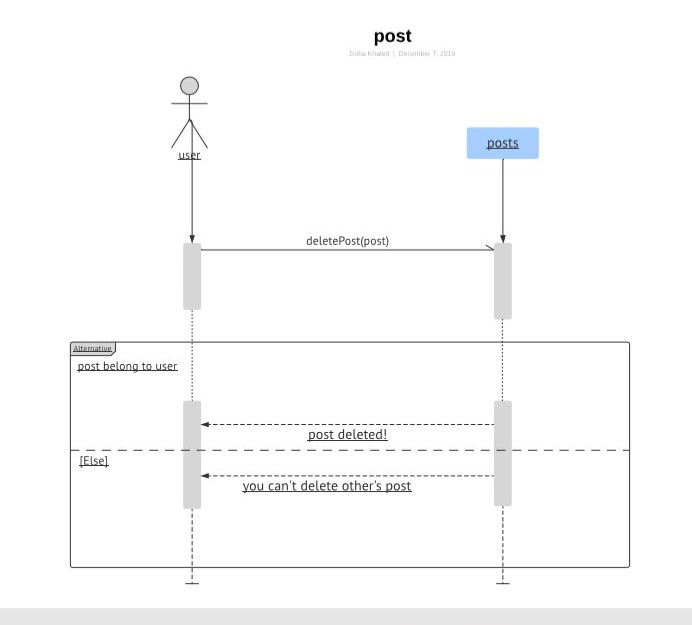
2.2 SN\_2 Add friend



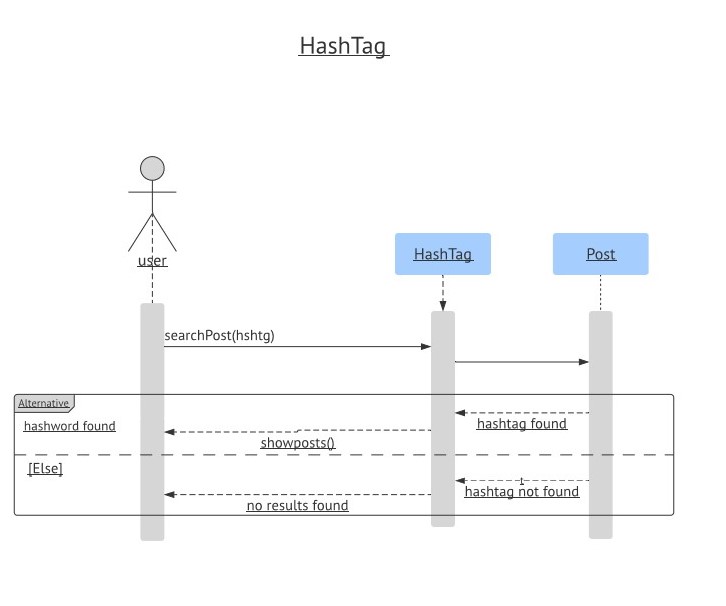


2.3 SN\_3 Posts

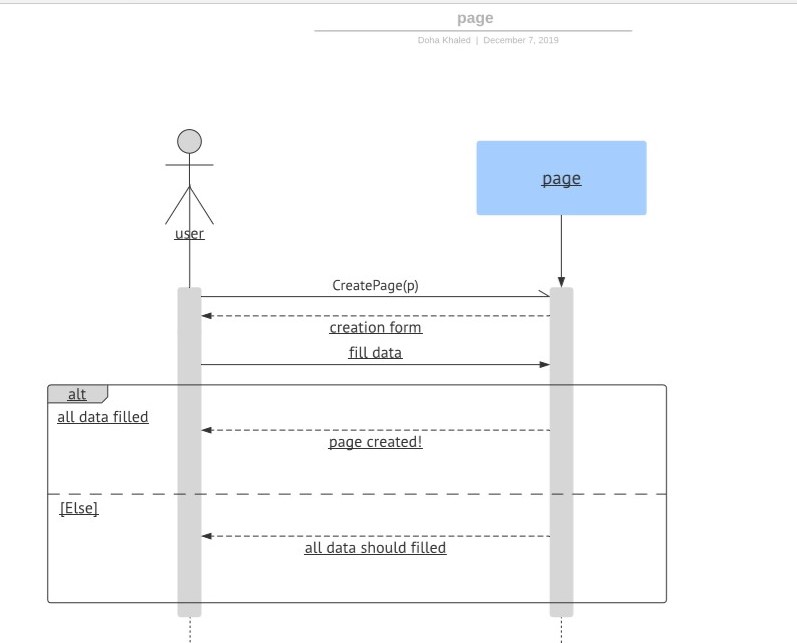




2.4 SN\_4 hash tag

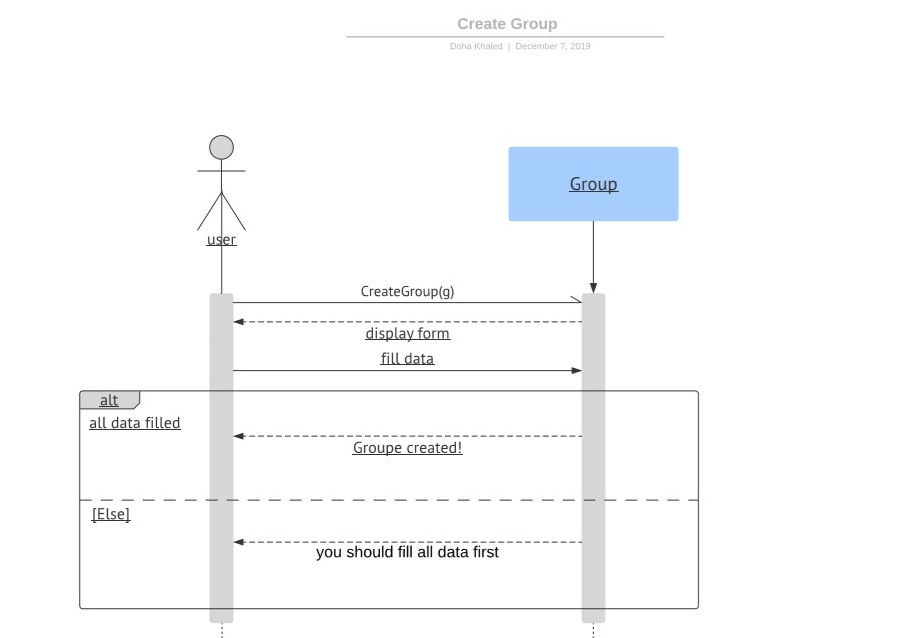
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2.5 SN\_5 Create a page

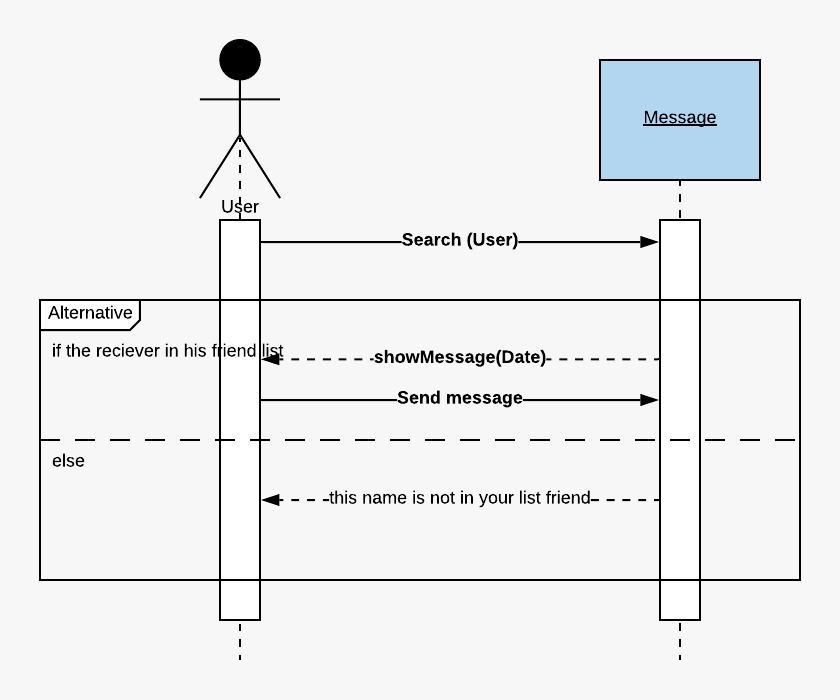


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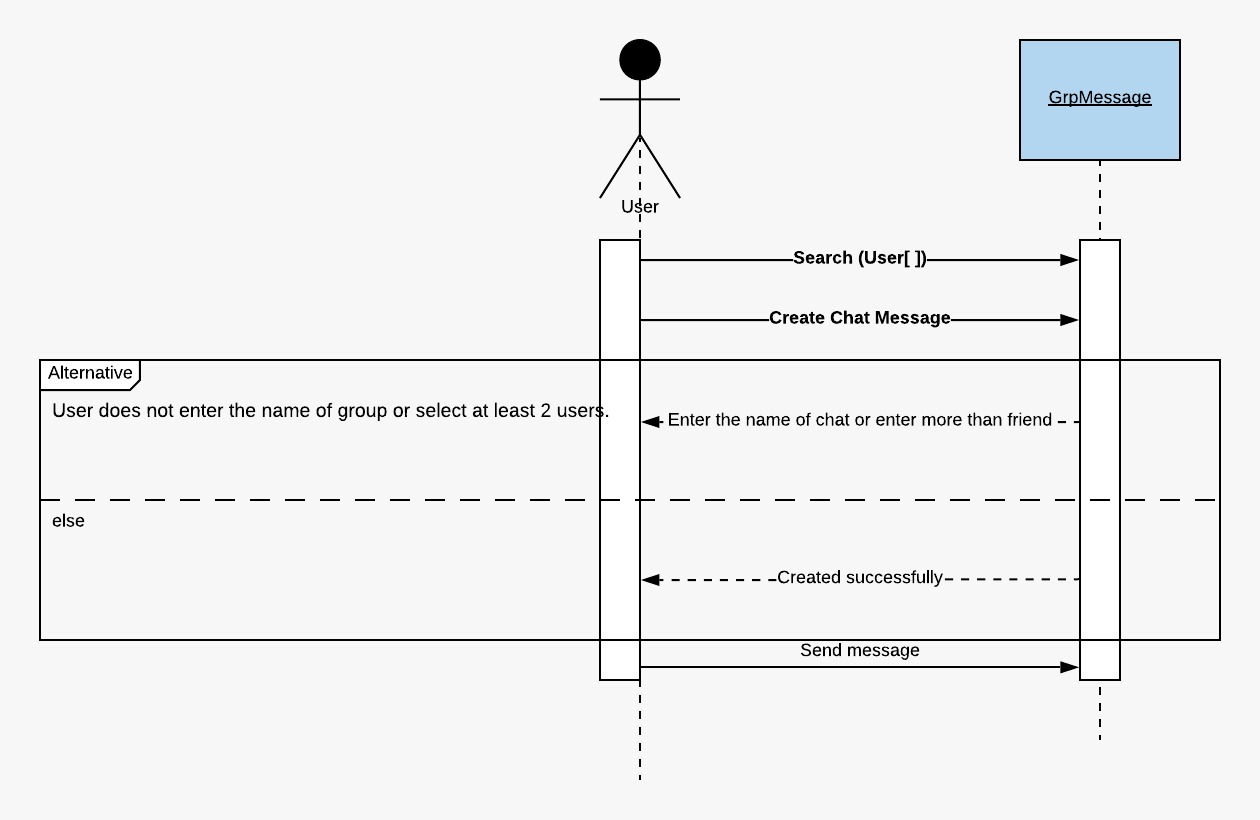
### 2.6 SN\_6 Create a group



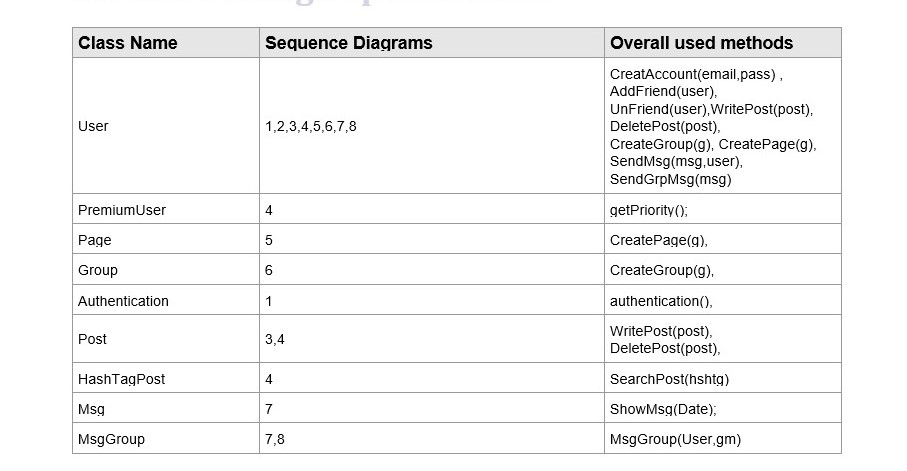
2.7 SN\_7 send message



2.8 SN\_8 Send message to group of friends



### Class - Sequence Usage Table

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# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Decomposition System | *Sama Hassan* |
| Class Diagram | *Alaa Taha* |
| Sequence Diagram (3,4,5,6) | *Doha Khaled* |
| Sequence Diagram (1,2,7,8) | *ElZahraa mohamed* |