Cairo University

Faculty of Computers and Information

CS251

Software Engineering I

Project Name

Software Design

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CS251: Phase 3 – <Team Name>
Project: <Project Name>

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Team

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Document Purpose and Audience

This Document about a social media application telling us about another way that people will contact with each other by chatting or posting or browsing a or page group.

Audience includes the client, the users, the project management, the system analysts (i.e., the developers who participate in the requirements), and the system designers (i.e., the developers who participate in the system design).
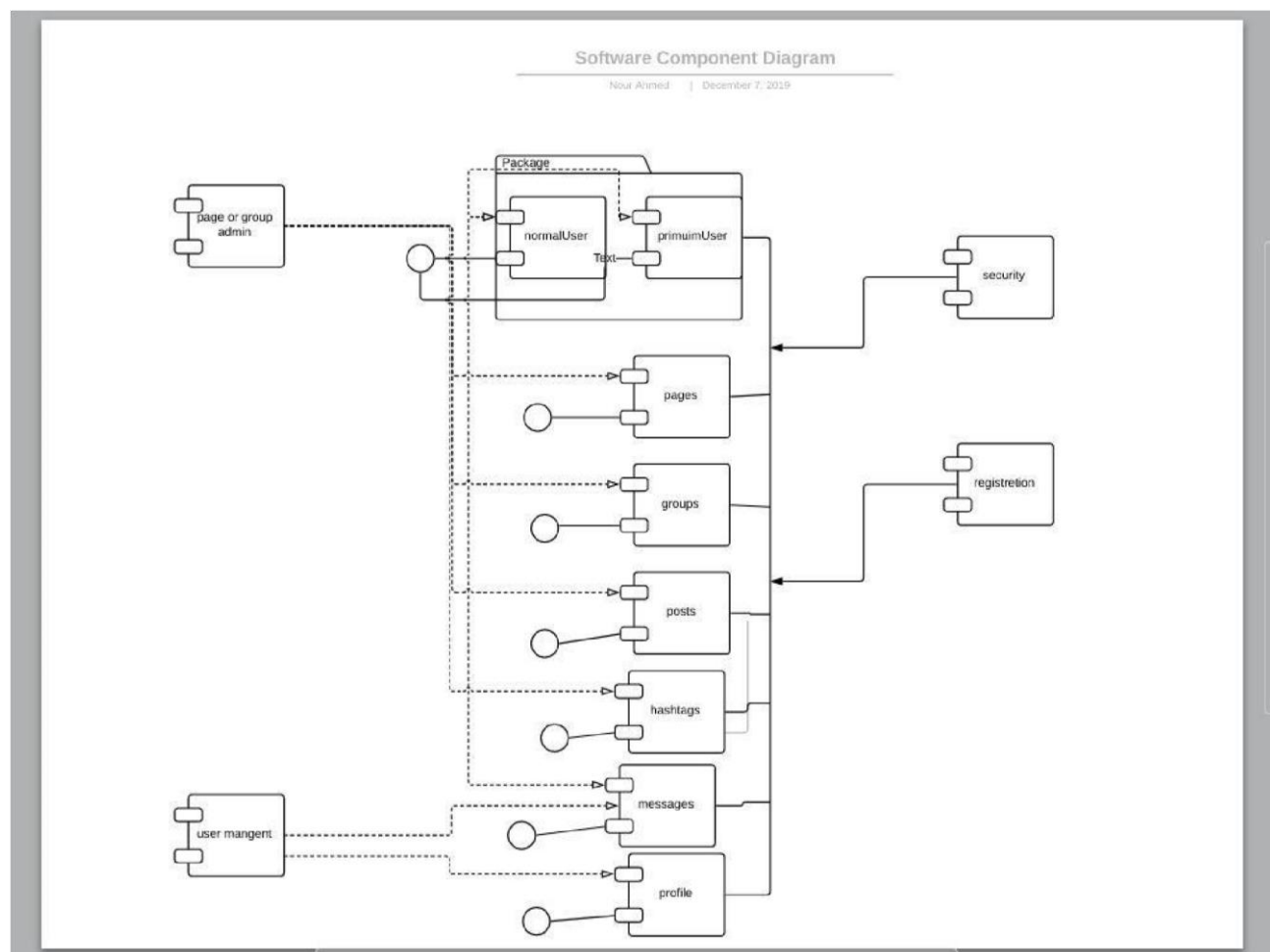
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Project: <Project Name>

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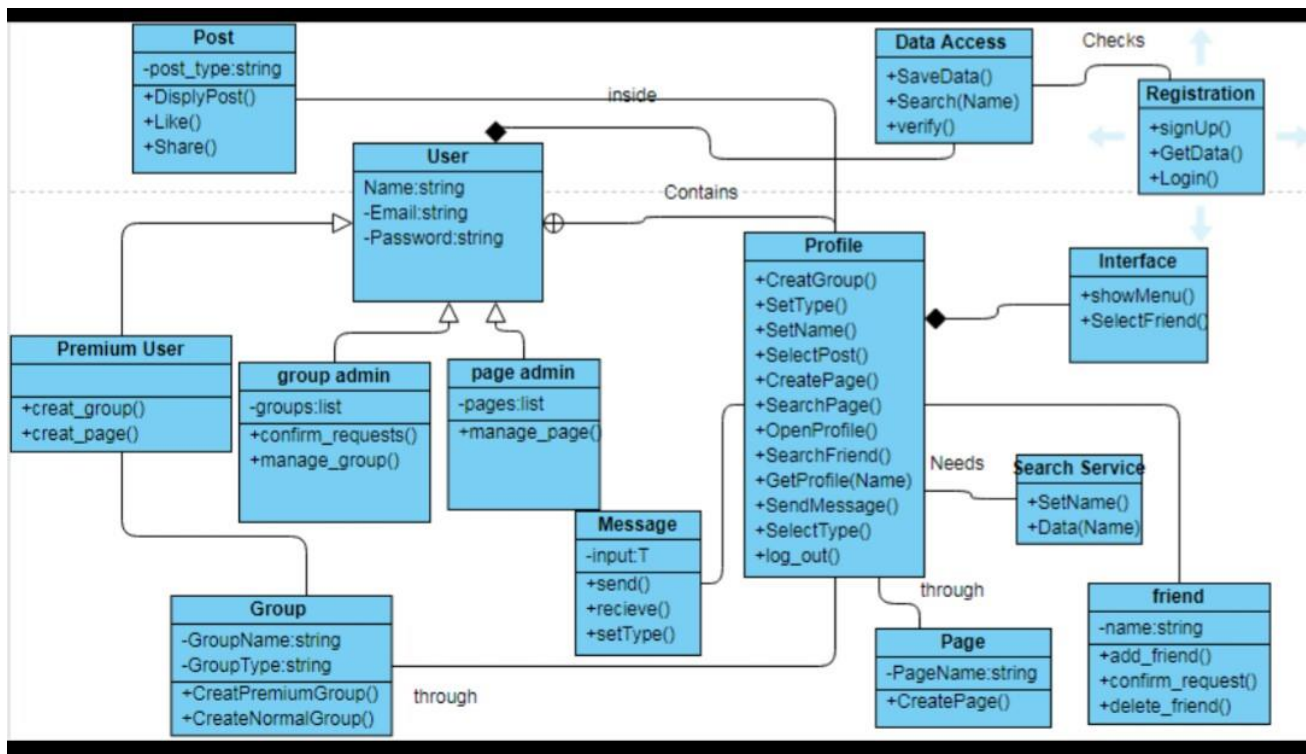## System Models

I.   System Decomposition

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II.   Class diagrams

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Class ID	Class Name	Subsystem ID	Description & Responsibility
1	user	2,4,5	Include system's user attributes
1.1	premium user	1	Children class from user but have one addition operation for creating group.
1.2	Page admin	1	Has the same attributes of user in addition of list of pages and extra functions to manage page.
1.3	Group admin		Has the same attributes of user in addition of list of groups and extra functions to manage group.
2	group	1.1 ,5	Contain group's attributes "name 'category 'type premium or normal"
3	post	5	Include operations users can do on posts like share or comment also contain post attributes like type
4	Data Access	1 - 6	Class to save the data of registration name of user and password .
5	Profile	1-7-8-3-2	Class includes operation "icons" user can control his account "search for post ,like or share ,logout….etc
6	Registration	4	Class implemented when user wants to sign up it allow him to register then pass his information into system database to check validation of user's system database to check validation of user's info

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7	Interface	5	System menu that make users can use system easily .
8	Search service	5	Implemented by profile class to allow user search for friend or page
9	Page	5	Class include page attributes like name and operation of creating page
10	Friend	5	Include the attributes of friend and functions these allow users to add each other on friends list
11	Message	5	Carry the attributes of message "message type" and functions could be done on message "sent ,receive ,set type"

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Sequence diagrams

Sign up :
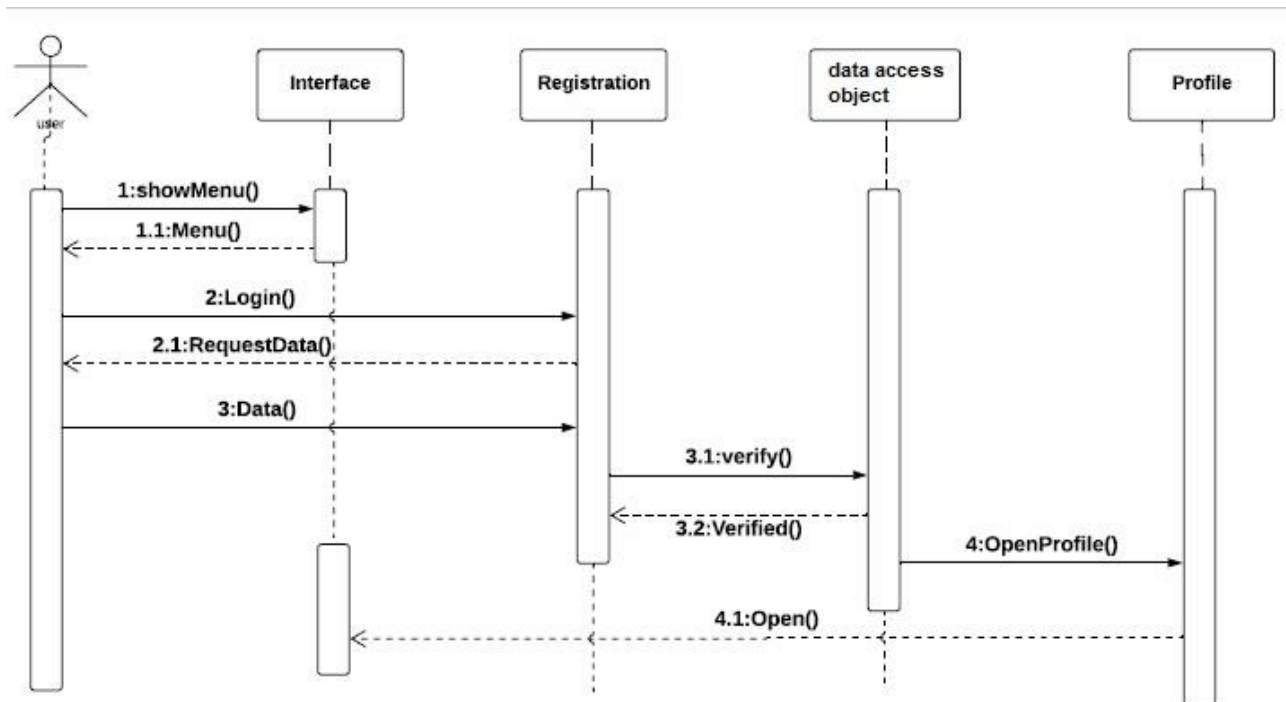
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Log in
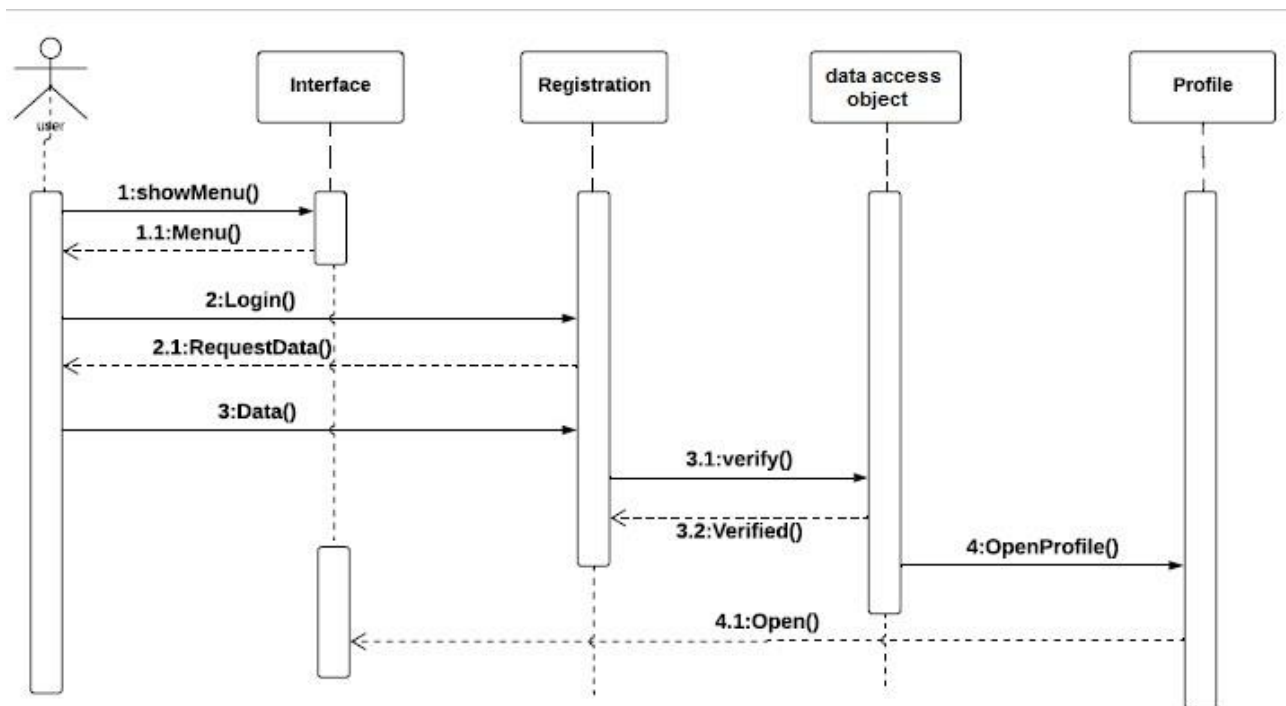
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Create page
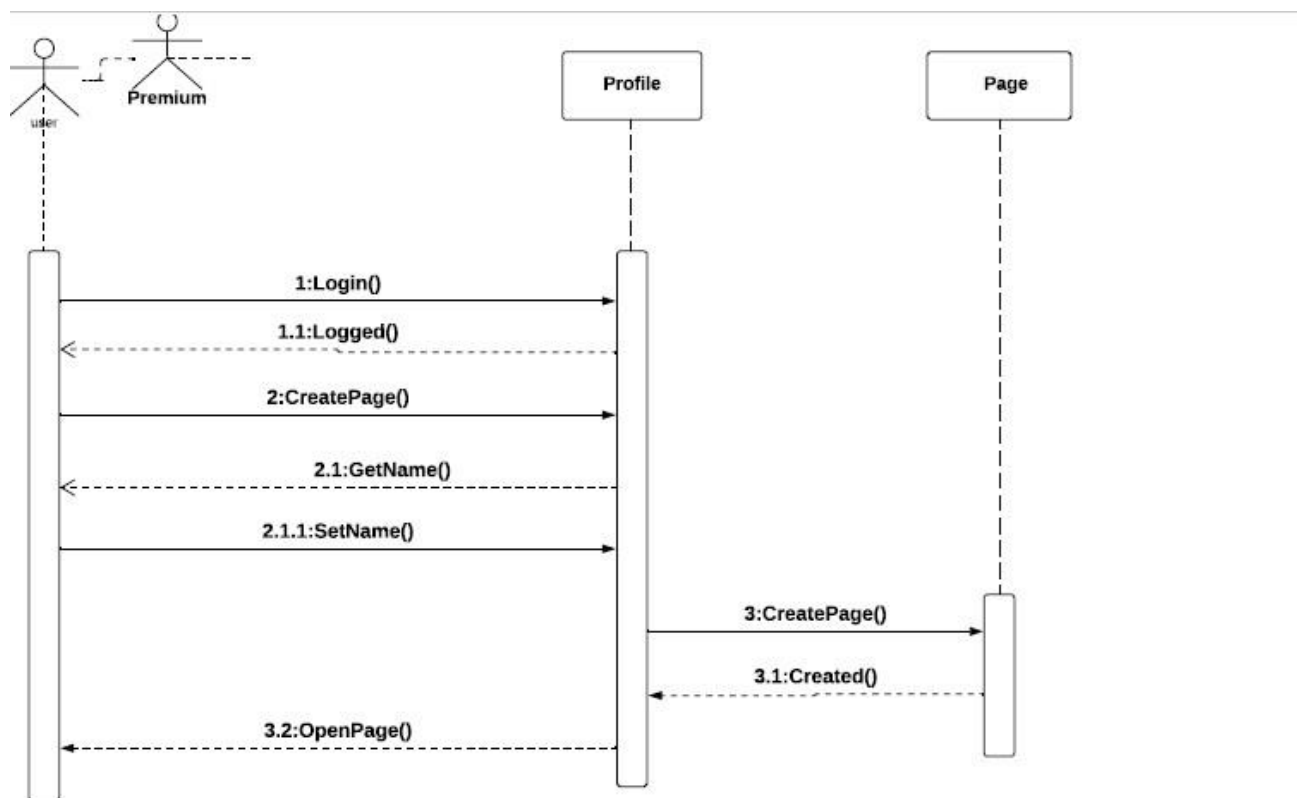
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Create group
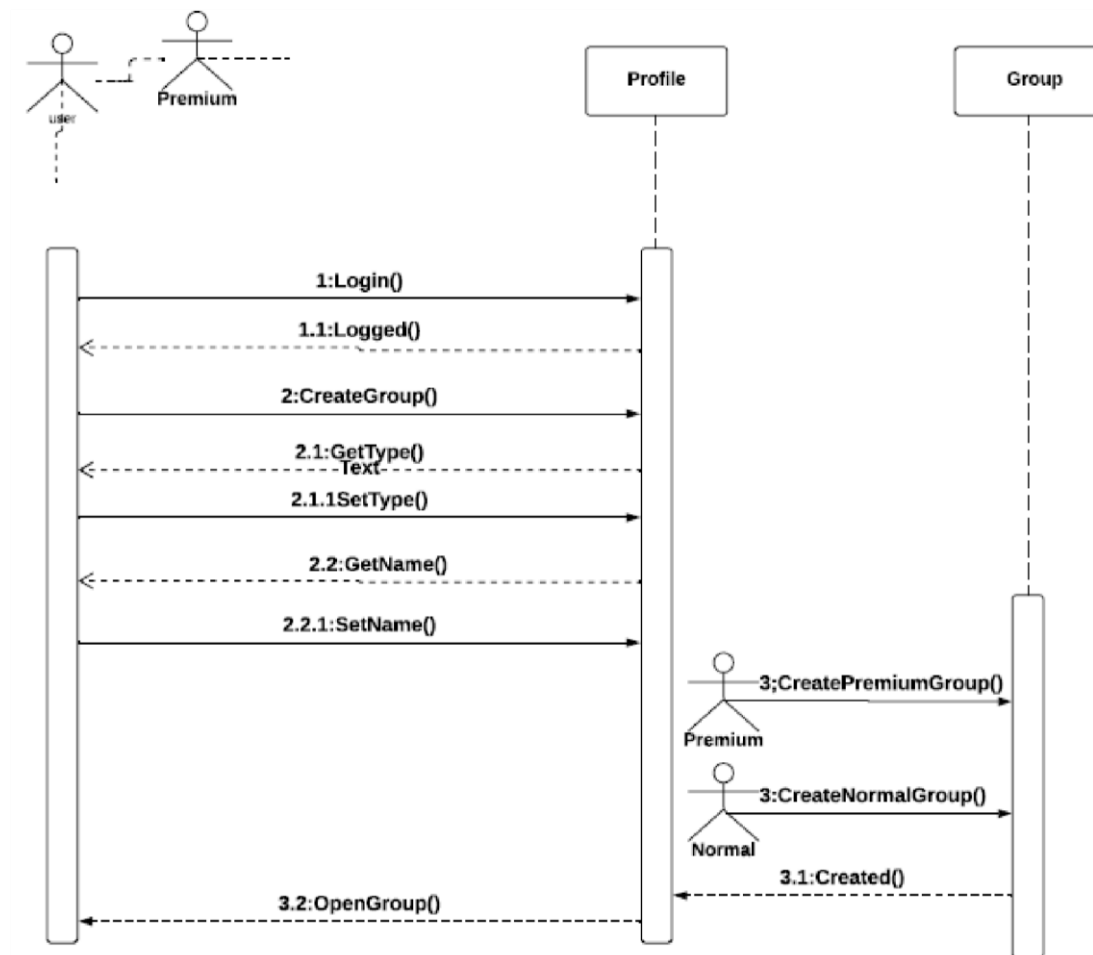
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Enter specific page
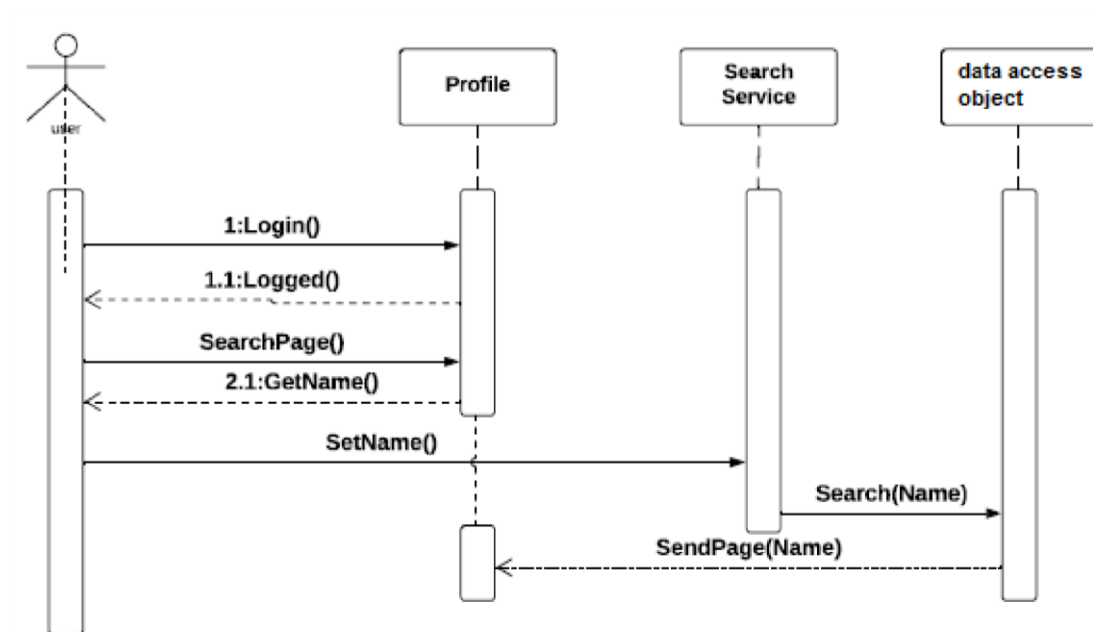
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Like or share post
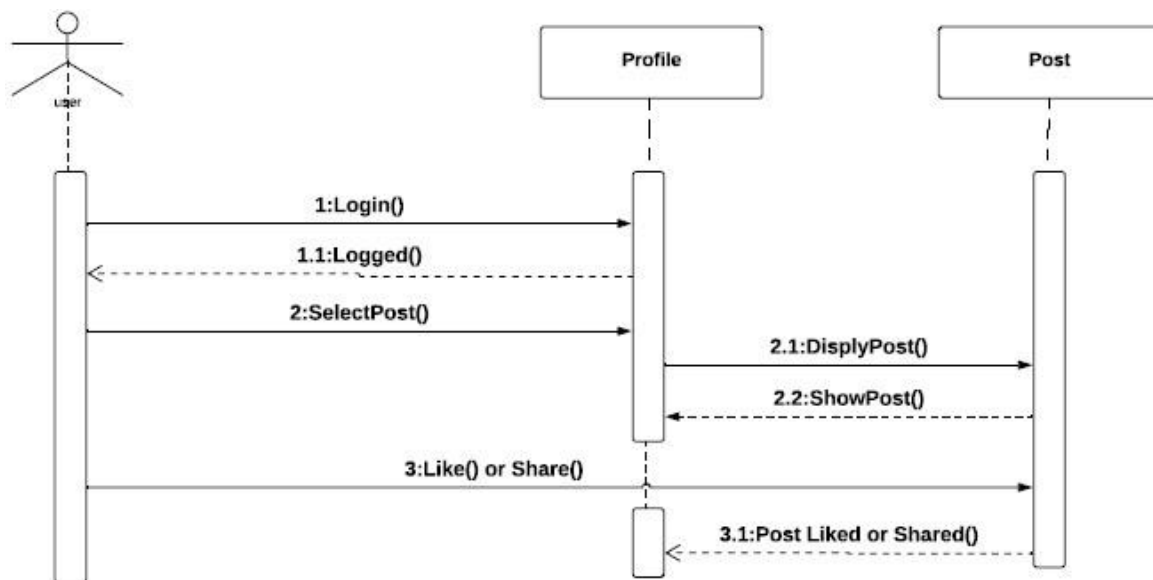
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Add friend
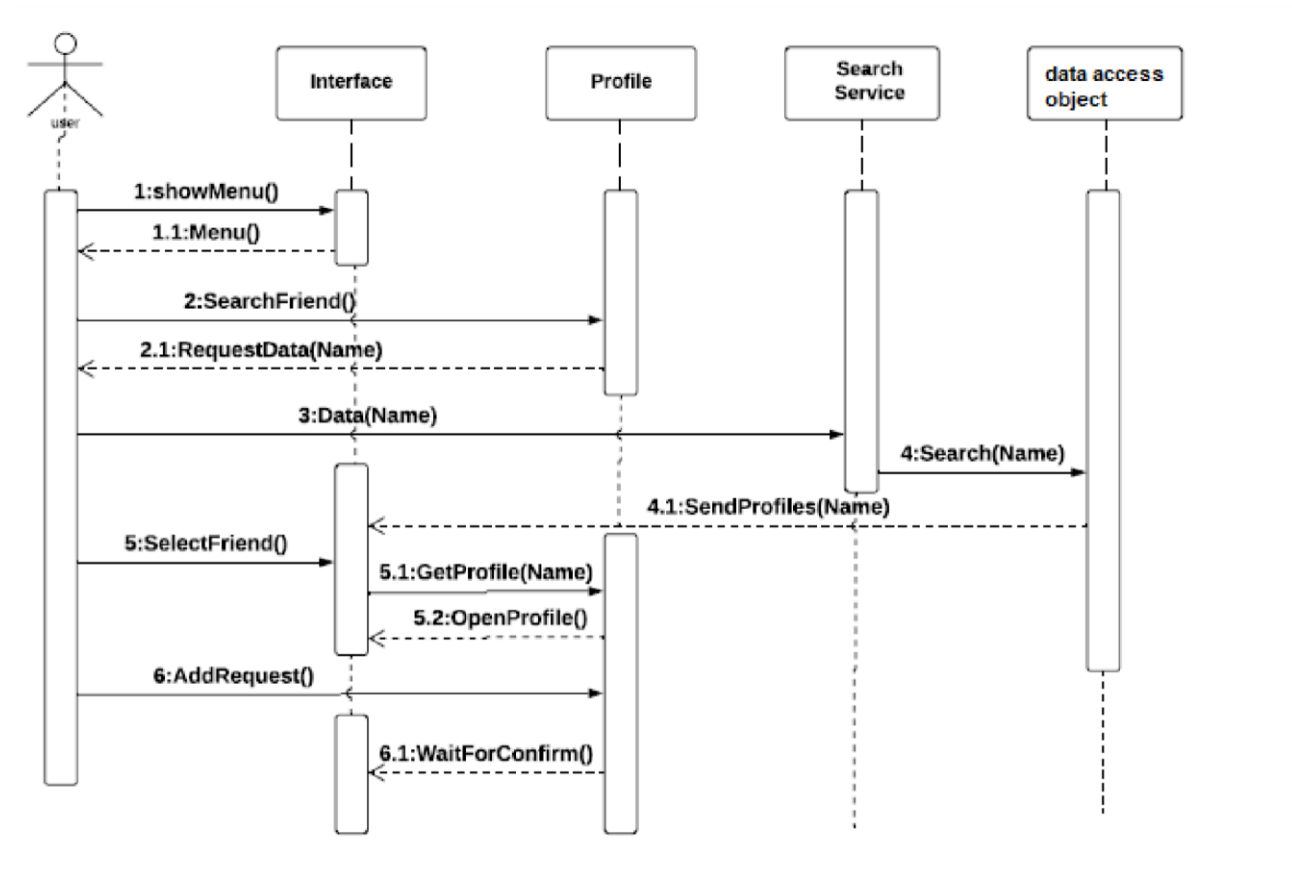
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Send message
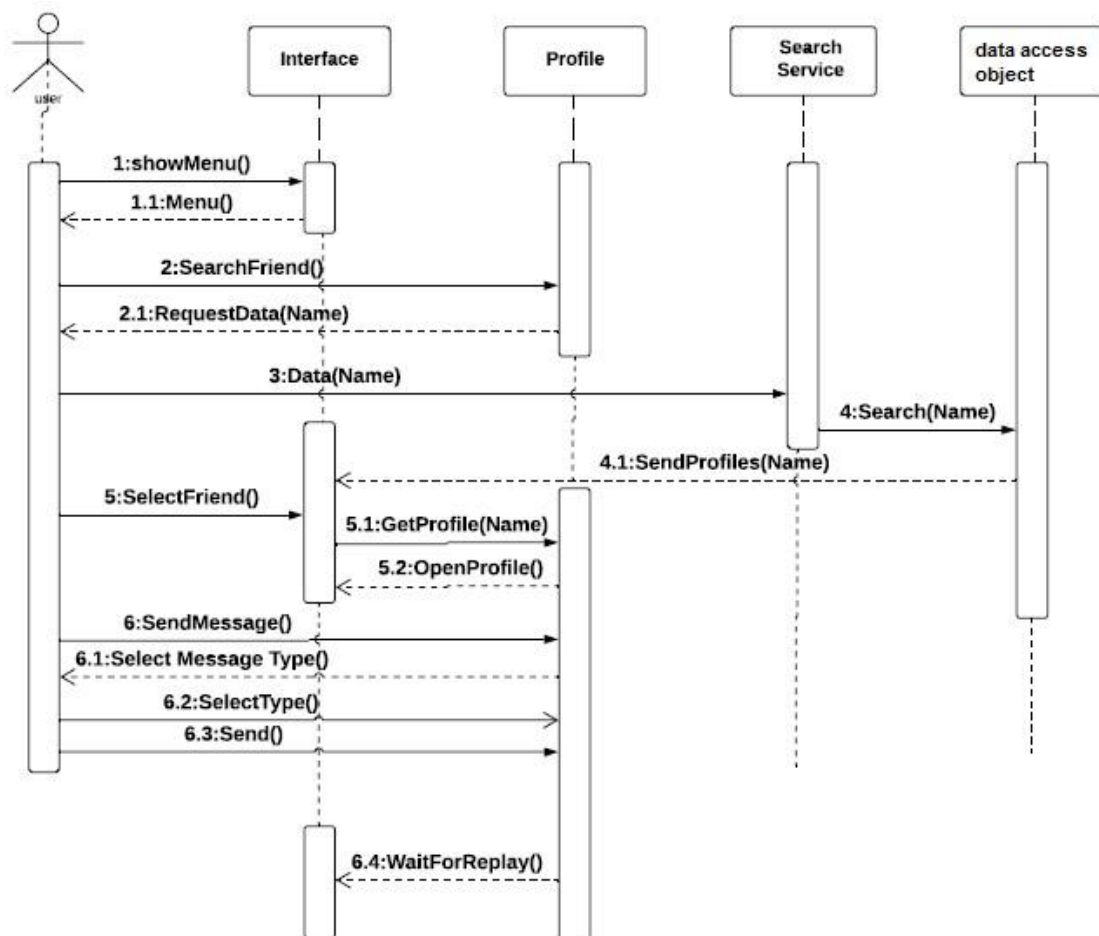
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Class - Sequence Usage Table

Class Name	Sequence Diagrams	Overall used methods
Sign up	1-5-6-7	Sign up(),register()
Login	1-5-4-7	Login()-get data()
Create page	1-9	Login()-create page()
Create group	1-2	Login()-create group()
Like or share post	1-3-5	Login()-enter specific page()-like or share post()
Add friend	1-5-8	Login()-search data()-add friend()
Send message	1-5-8	Login()-add friend()-send message()
Enter specific page	1-5	Login()-search for page name ()enter page()

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