CS251 – Software Engineering I

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CS251: Phase 2 – DS_1
Project: <Social Network>

Software Design Specification

Contents

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Software Design Specification

Team

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Document Purpose and Audience

The purpose of this phase is to design the whole system with different state (dynamic- Static)
to know how the system will work and how it will perform , in this phase we used UML (class diagram ,
sequence diagram , ERD(Entity Relationship Diagram)).

This phase's audiences are the developer who will implement this phase and the client to make sure that
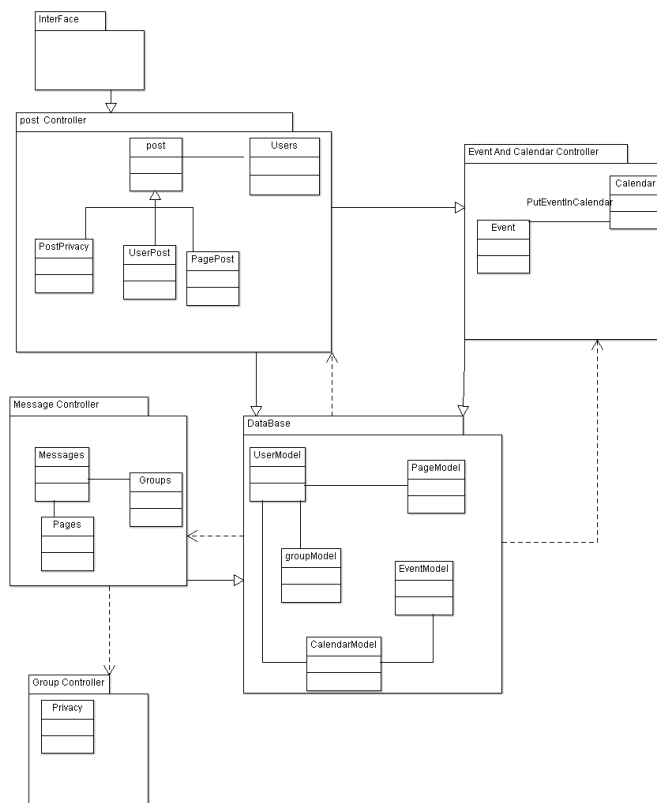the design is matching his/her requirements.

Software Design Specification

System Models

System Decomposition

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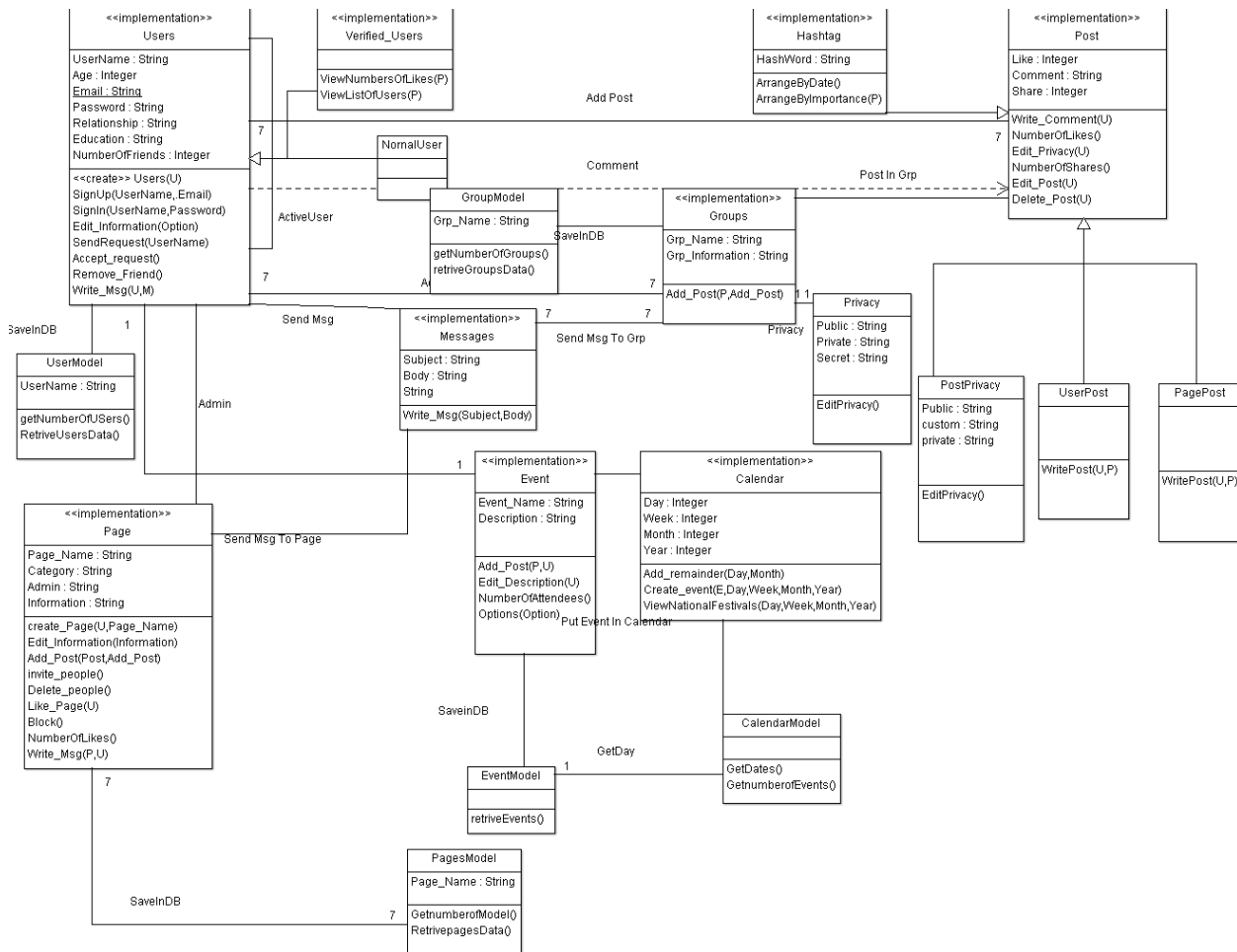
Class diagrams

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Class ID	Class Name	Subsystem ID	Description
Post Users Groups Page	Post controller	This subsystem can control the posts users , pages and groups	
Events Calendar	Events and calendar controller	This subsystem can control the events and calendar	
Messages groups* Pages* (independent classes-appears in only one subsystem)	Messages Controller	This subsystem controls the messages	
Usermodel PageModel GroupModel CalendarModel EventModel	Database	This subsystem Controls the database	
Privacy	Group controller	Controls the group	

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Important Algorithm

Share post Algorithm

sharePost (post)
precondition : read the post
Post condition : view post on profile
flow :
- click button share
- choose share location (group - friend - profile)
if group and post is custom :
change privacy to custom and group members
if friend and post is custom :
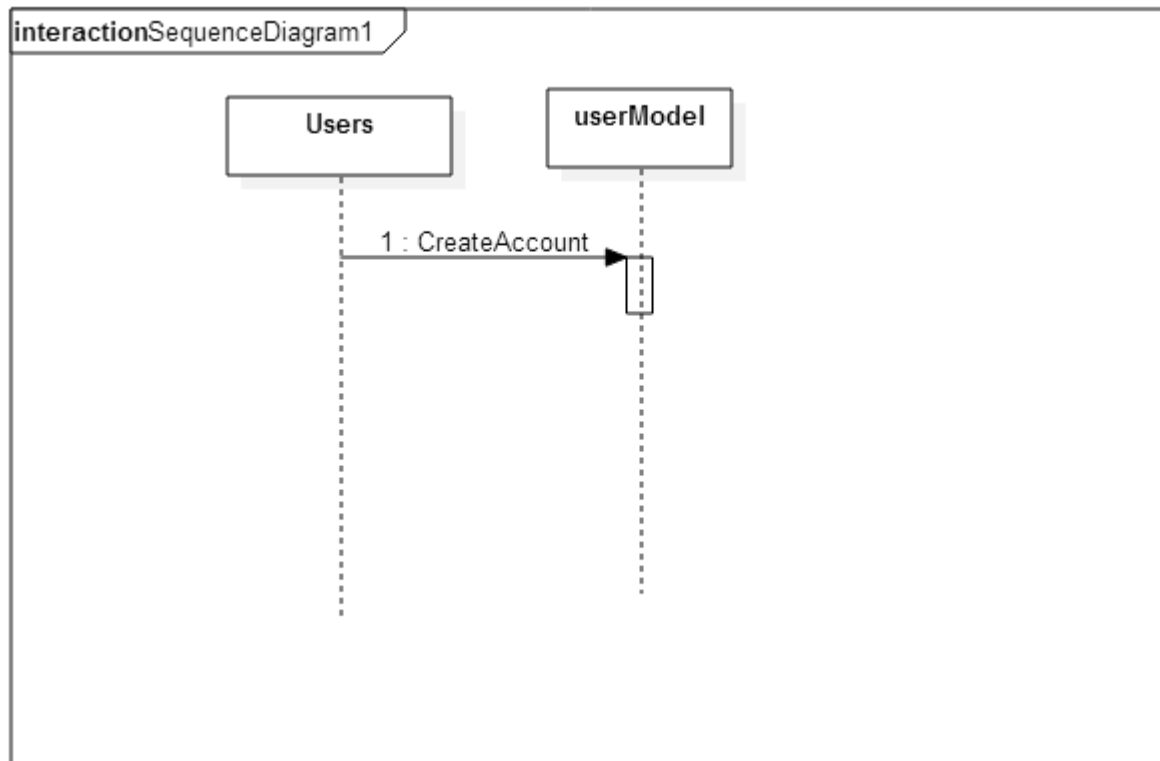change privacy to custom and friends of the friend
- view post

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Sequence diagrams

interactionSequenceDiagram1

Users   userModel

1 : CreateAccount

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interactionSequenceDiagram2
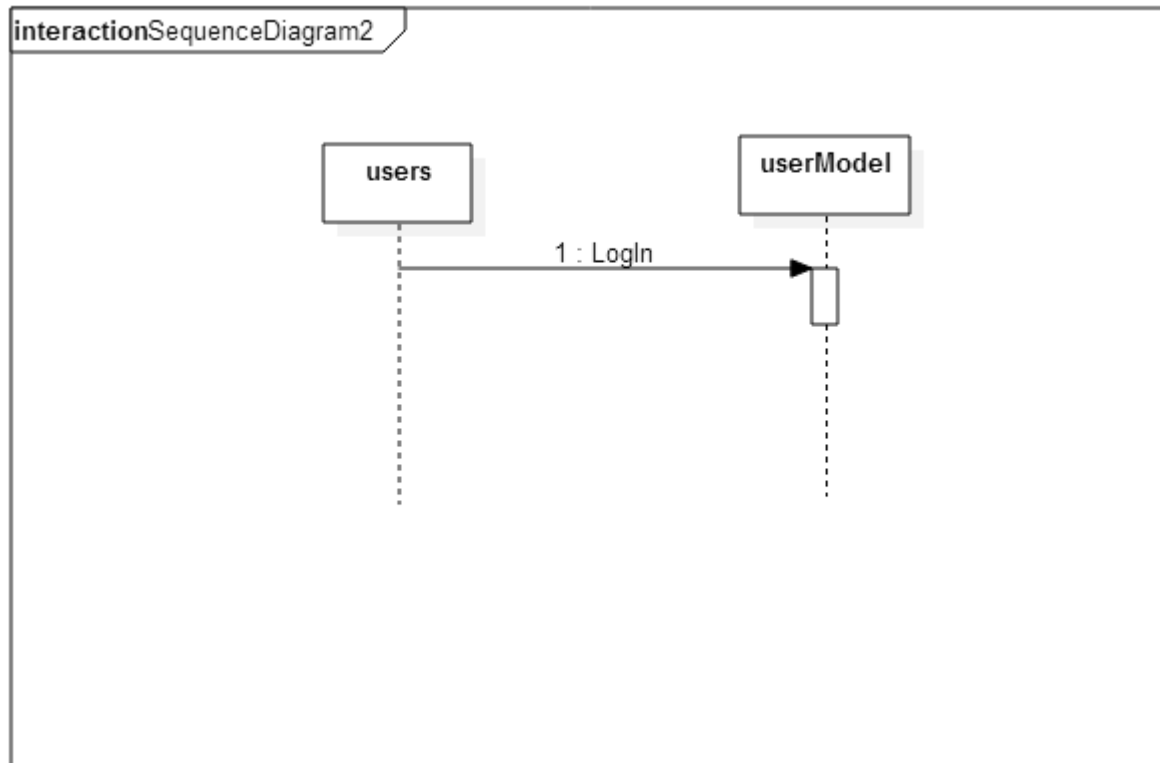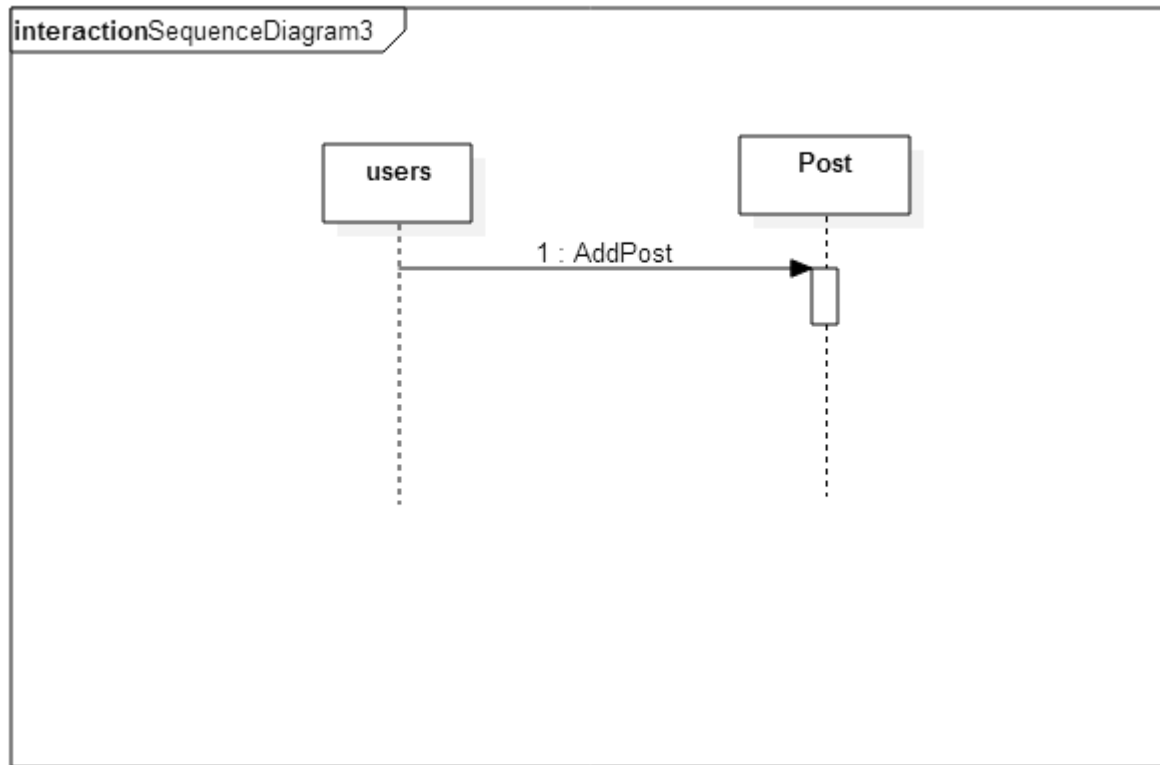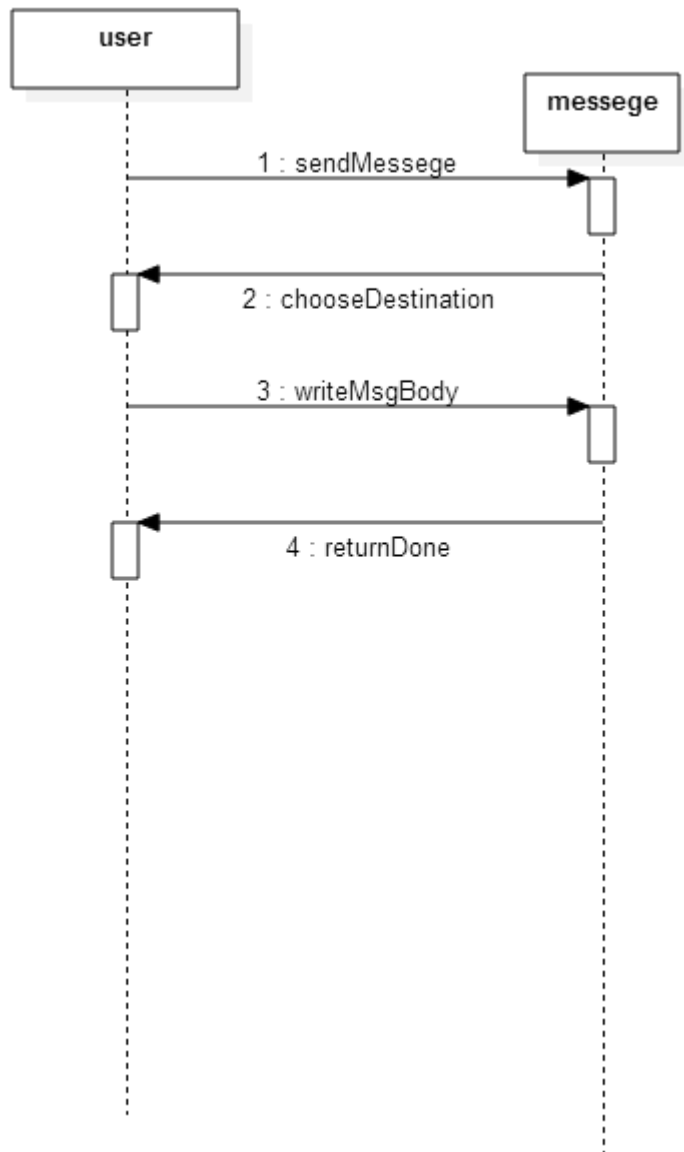
users

userModel

1 : LogIn

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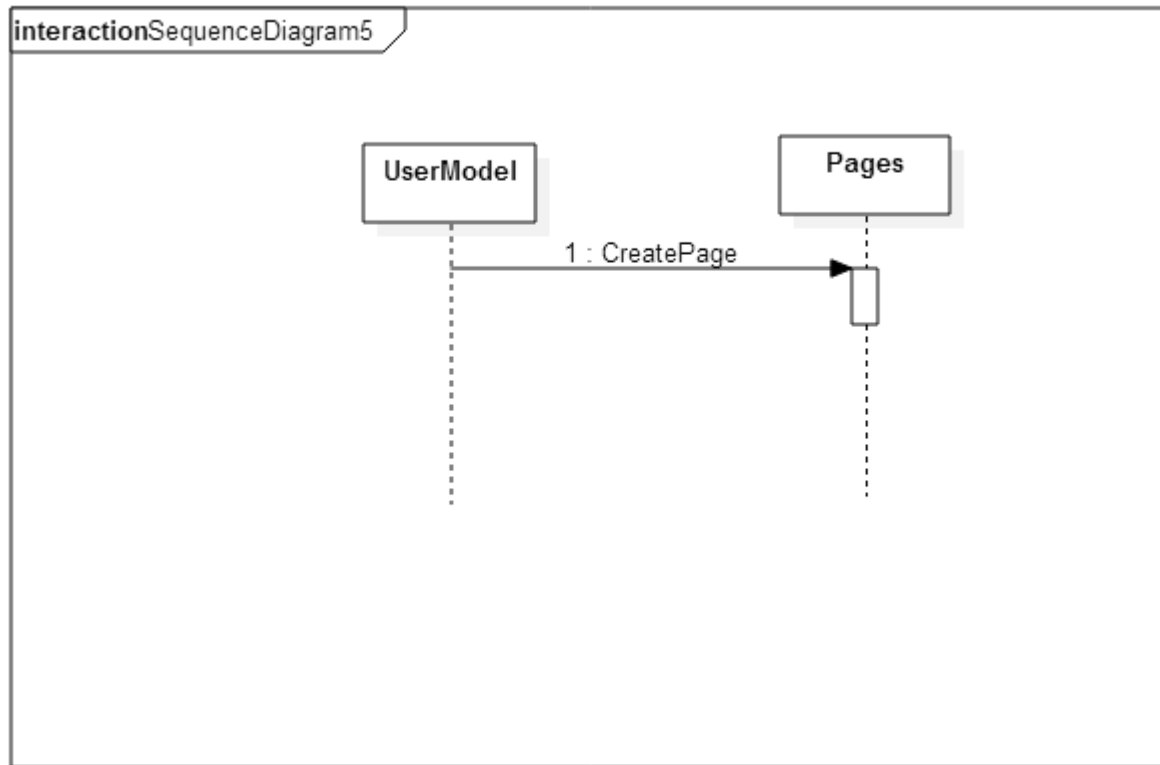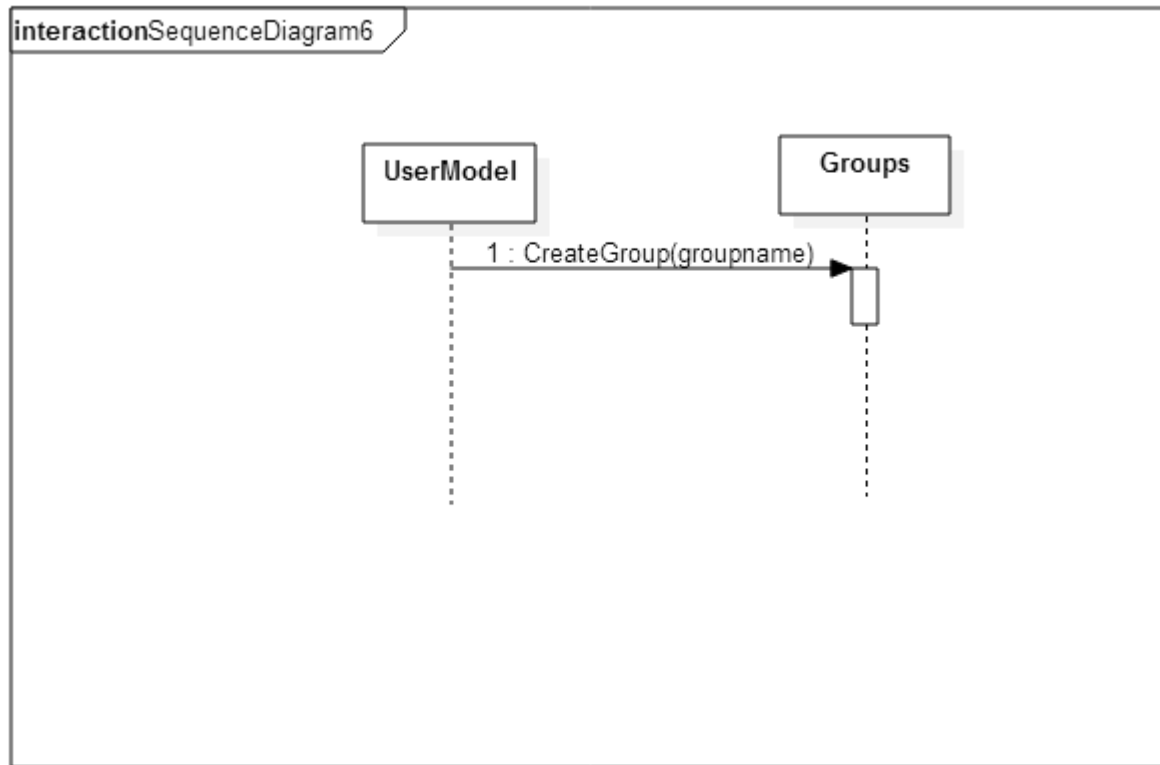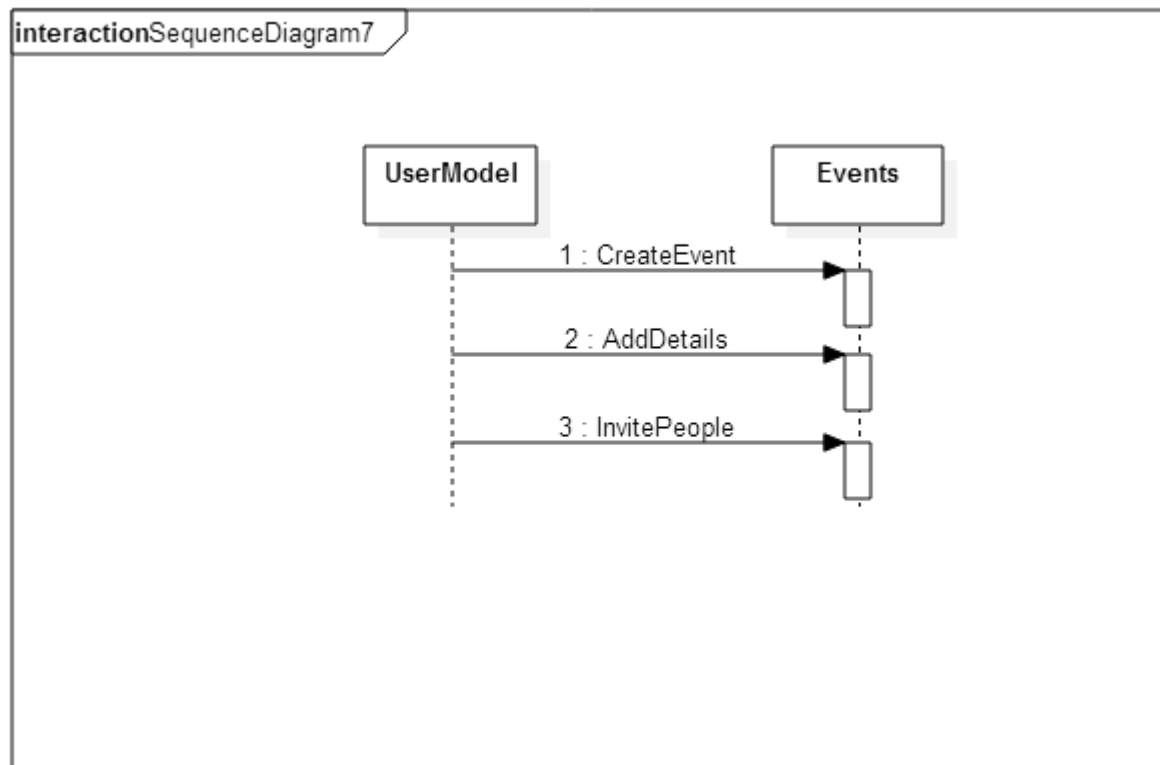Project: <Social Network>

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Software Design Specification

interactionSequenceDiagram6

| UserModel | | Groups |
| | 1 : CreateGroup(groupname) → | |

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interactionSequenceDiagram8

| UserModel | | Calender |

1 : AddReminder

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interaction SequenceDiagram9

UserModel   Hashtag

1 : ViewRelatedHashTags

2 : viewHashtagPosts
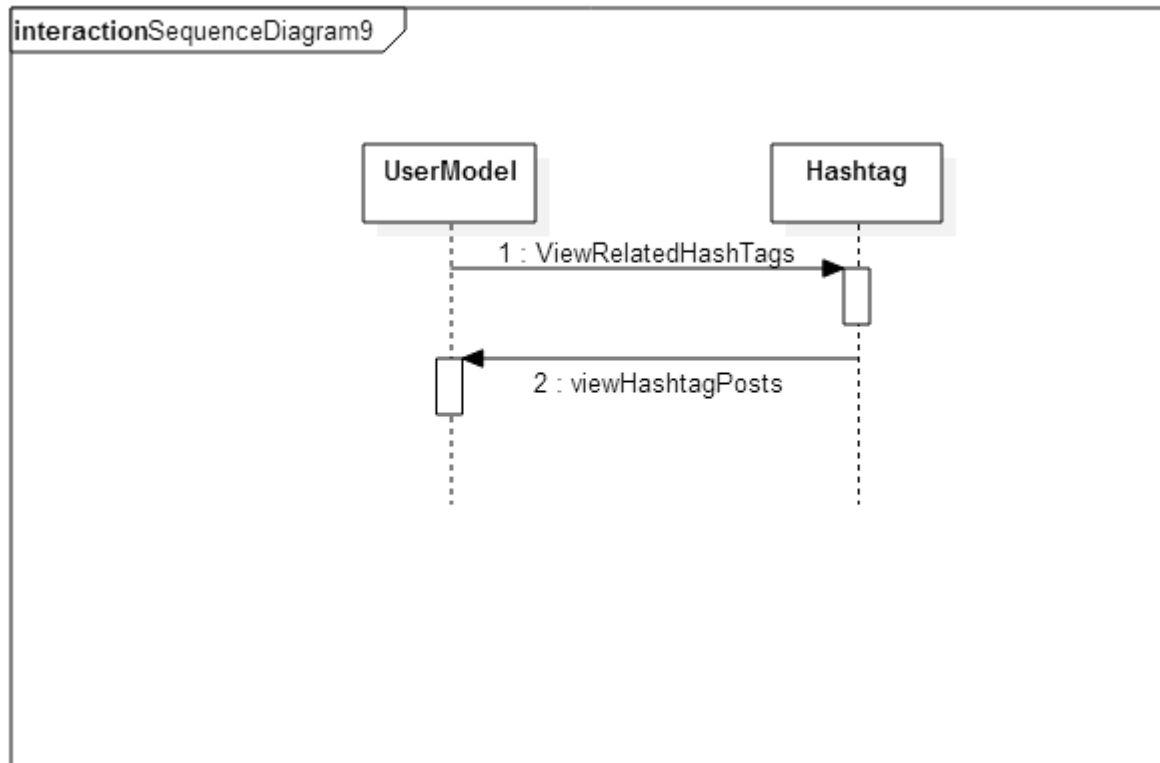
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Class - Sequence Usage

Class Name	Sequence Diagrams	Overall used methods
userModel	1,2,5,6,7,8,9	sendMeesage
user	1,2,3,4	CreateAccount,LogIn
message	4	chooseDestination
calendar	8	AddReminder
event	7	CreateEvent,addDetails,Invite
group	6	CreateGroup
hashtag	9	viewRelatedHashtags
post	3	writePost
page	5	createPage

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Physical Entity-Relationship Diagram

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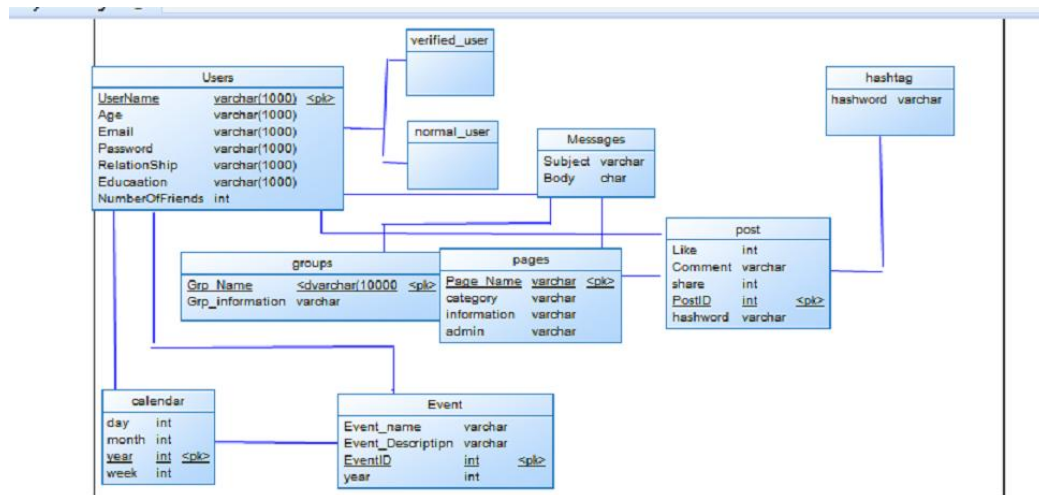Project: <Social Network>

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User Interface Design

Screen 1 – Main screen

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Screen 2 – Sign up

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Screen 3 – Login

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Ownership Report

Item	Owners
Class Diagram	Aya Sharaf
Sequence diagram	Assmaa Khaled
ERD	Aya Sharaf – Assmaa Khaled
Document Purpose	Abrar Mo'men
User Interface	Assmaa Khaled
System Decomposition	Aya Sharaf

Authors

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