

CS251: Software Engineering I

2014-2015

Project Title : Social Network

Software Requirements Specifications

**for social network**

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# Team

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# Document Purpose and Audience

* This document is presenting a software requirements specifications, which is a description of a software system to be developed, laying out functional, non-functional requirements, and system models. It is for a back-end API (Application Programming Interface) for a Social Network, which is a dedicated website which enables users to communicate with each other by posting information, comments, messages, images, like Facebook, etc..
* It targets developers (to be able to maintain or develop functions), software engineers and business developers who are trying to develop their professional network or create a new one.
* It targets also the project manager, who is responsible for the whole project.

# System Models

## System Decomposition

The diagram is too big that it can't be taken as a sceenshot, in the assignment rar there is a separate ArgoUml file that has both System Decomposition and Class Diagram.

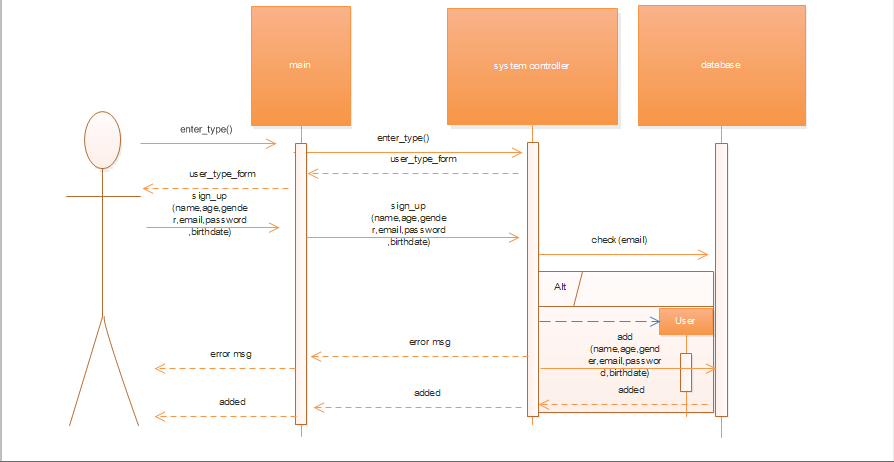
## Class diagrams

The diagram is too big that it can't be taken as a sceenshot, in the assignment rar there is a separate ArgoUml file that has both System Decomposition and Class Diagram.

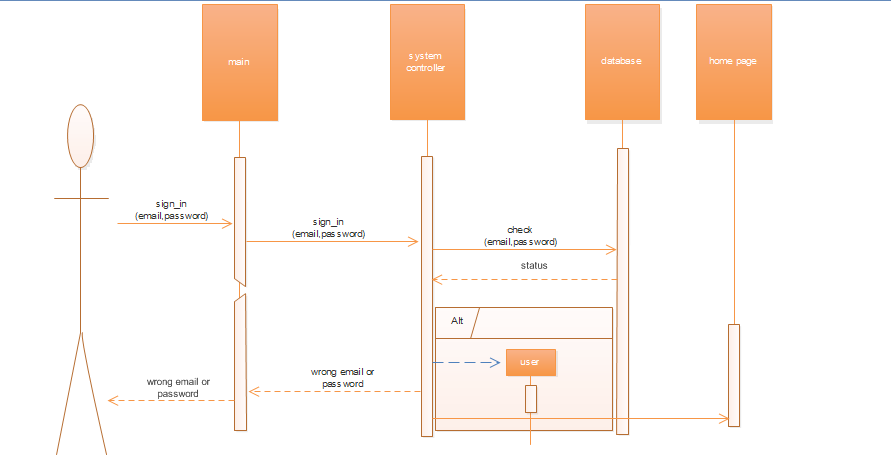
| **Class ID** | **Class Name** | **Subsystem ID** | **Description** |
| --- | --- | --- | --- |
| 1 | SystemControl | 1 | - It is a controller class, relates the actors actions to the entity classes and to the boundary classes.  - It executes the functions (load and add) |
| 2 | Database | 1 | - It's a controller class, relates the actors actions to the entity classes and to the boundary classes.  - It inherits from its parent class (SystemControl). (4 Classes are inherited Group/ Post/ Page/ Users) |
| 3 | User | 2 | - It's an entity class, carries the attributes of the user and the functions he can performs (sign up/ sign in/ sign out) (2 classes are inherited from it Normal and Premium Users) |
| 4 | Privacy | 2 | - It's a class that carries all the privacy settings for Posts/ Groups/ Pages |
| 5 | Post | 3 | - This class is responsible of different types of posts and managing them using some functions (share/ like/ write/ comment). |
| 6 | Hashtag | 3 | - This class is responsible of getting and sorting the hashtags written in posts. |
| 7 | Messages | 4 | This class is responsible of sending or viewing messages. |
| 8 | Pages | 4 | This class is responsible of creating and managing pages by (create / delete) and enables the user to like of unlike the page. |
| 9 | Groups | 4 | This class is responsible of creating managing, and deleting owned groups. It enables the user to join a group. In case of creating the group, it'll enable the owner to choose the type of privacy and its name. |
| 10 | Newsfeed | 5 | - It's a boundary class. 3 classes are inherited from it (Page/User/Group) and represents everything that could be viewed from this pages |

## Sequence diagrams

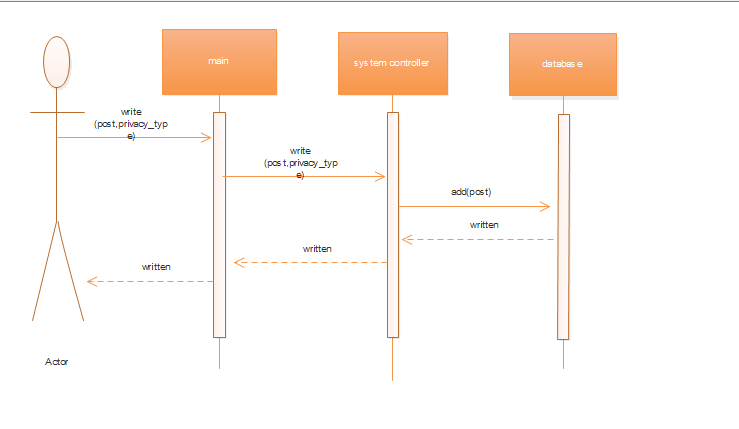
**Sequence#1 : (sign\_up)**



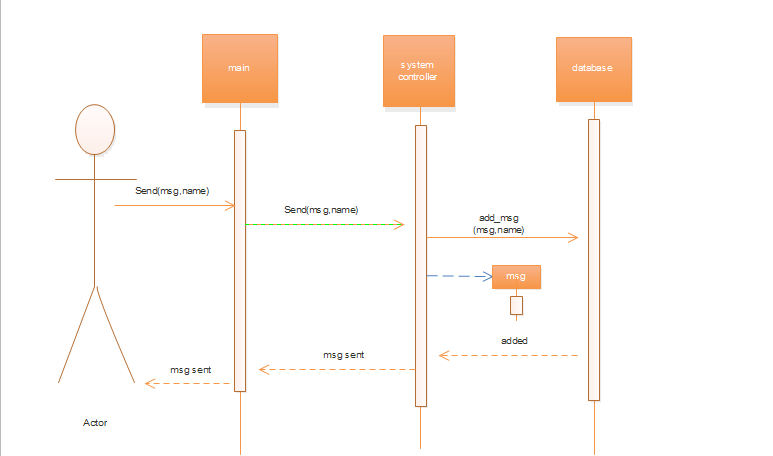
**Sequence#2: (sign\_in)**

****

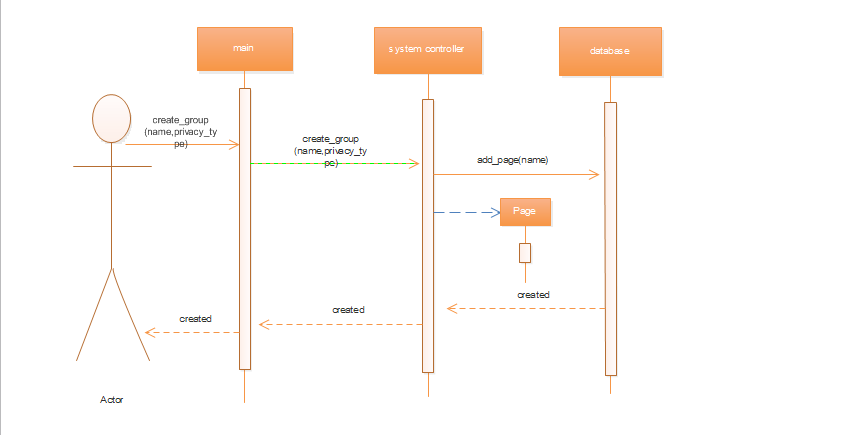
**Sequence#3: (write\_post)**

****

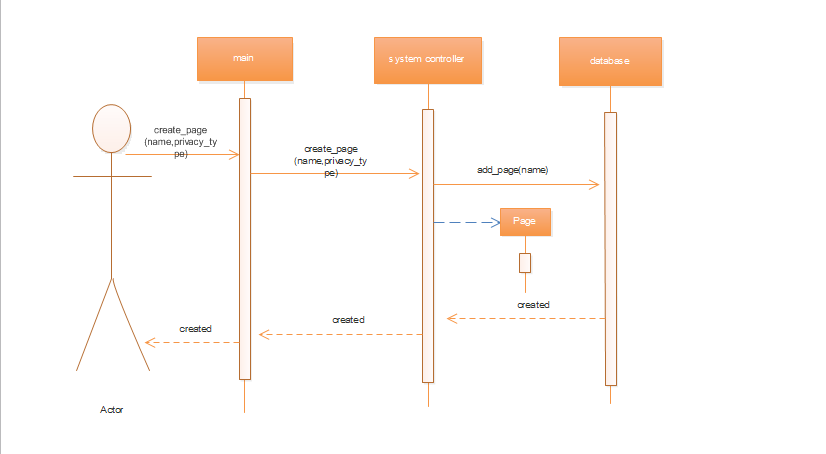
**Sequence#4: (send msg)**

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**Sequence#5: (create\_group)**

****

**Sequence#6: (create\_page)**

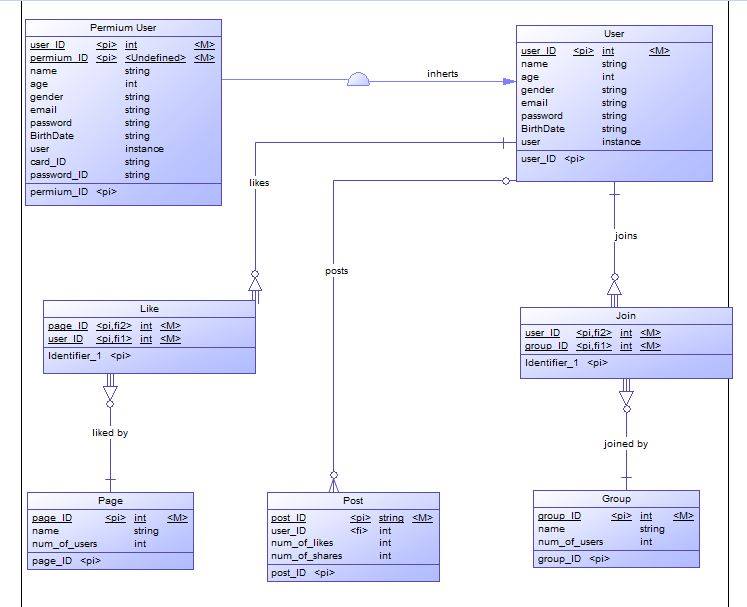
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### Class - Sequence Usage

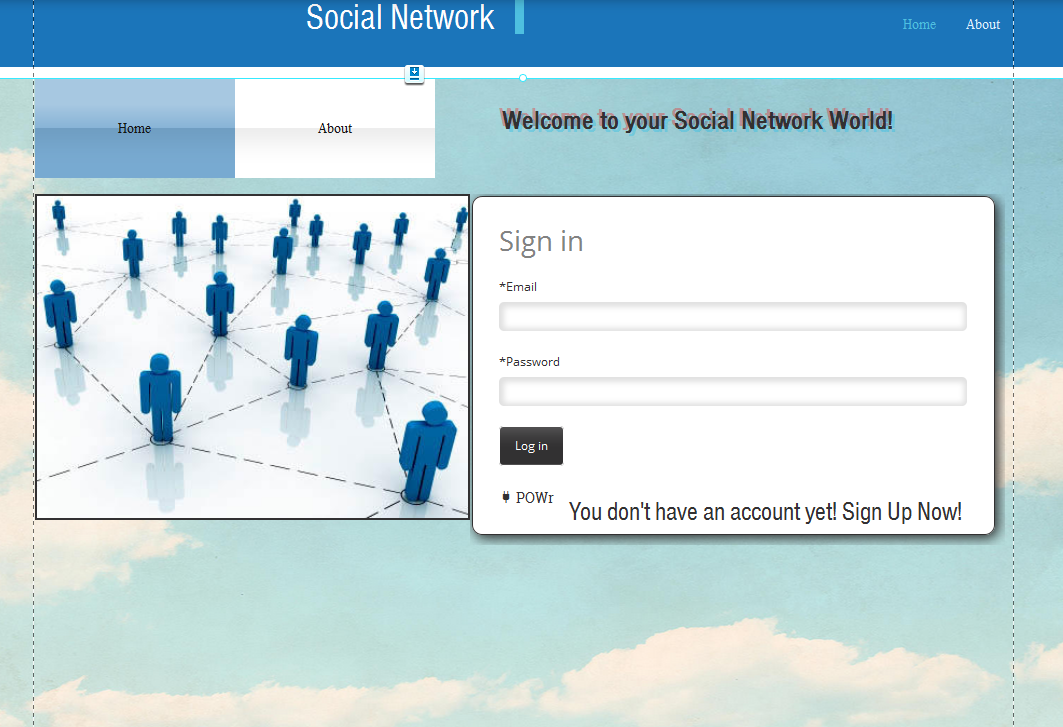
| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| main | 1, 2,3,4,5,6 | Creat\_group , creat\_page , send , sign\_in , enter\_type , sign\_up , write |
| SystemController | 1,2,3,4,5,6 | Write , enter\_type , sign\_up , creat\_group , creat\_page ,send , sign in |
| Data Base | 1,2,3,4,5,6 | Add\_group , add\_page , add\_msg , check , add |

## 

## Physical Entity-Relationship Diagram

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## User Interface Design



# C:\Users\Laila\Desktop\1.png

# C:\Users\Laila\Desktop\3.jpg

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| System decomposition | Laila Hussein |
| Class Diagram | Laila Hussein |
| Sequence Diagram | Nehal Mahmoud & Aliaa Hassan |
| Sequence Usage | Nehal Mahmoud & Aliaa Hassan |
| Physical Entity-Relationship Diagram | Nehal Mahmoud & Aliaa Hassan |
| User Interface Design | Laila Hussein |

# Policy Regarding Plagiarism:

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