

CS251: Software Engineering I

2014-2015

Project Title : Social Network

Software Requirements Specifications

**for social network**

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Contents

[Team 2](#_Toc402855163)

[Document Purpose and Audience 3](#_Toc402855164)

[System Models 4](#_Toc402855165)

[System Decomposition 4](#_Toc402855166)

[Class diagrams 4](#_Toc402855167)

[Sequence diagrams 6](#_Toc402855169)

[Class - Sequence Usage 7](#_Toc402855170)

[Physical Entity-Relationship Diagram 7](#_Toc402855171)

[User Interface Design 8](#_Toc402855172)

[Screen 1 – Sign up and sign in Screen 8](#_Toc402855173)

[Screen 2 – Home page Screen 8](#_Toc402855174)

[Ownership Report 9](#_Toc402855177)

[Policy Regarding Plagiarism: 9](#_Toc402855178)

[Authors 9](#_Toc402855180)

# Team

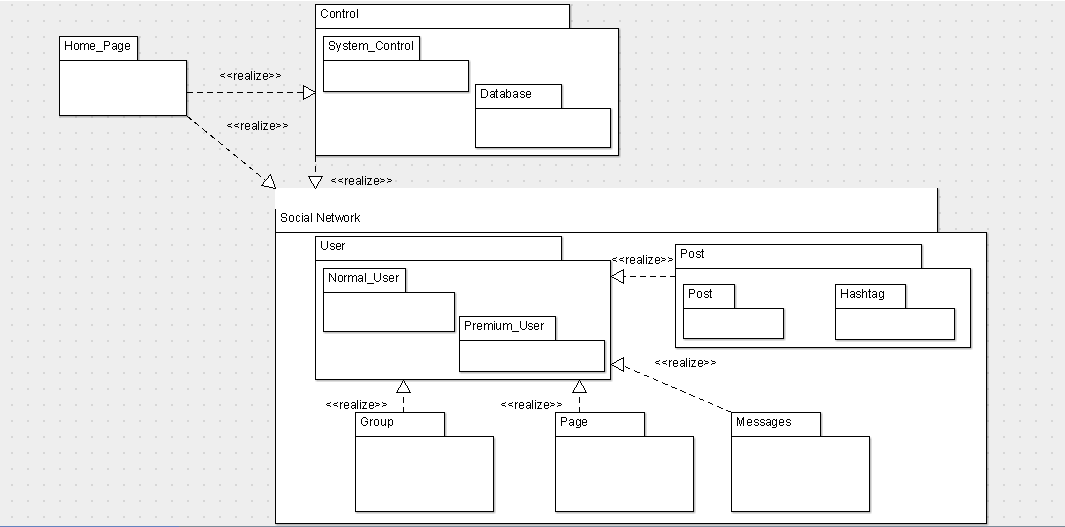
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# Document Purpose and Audience

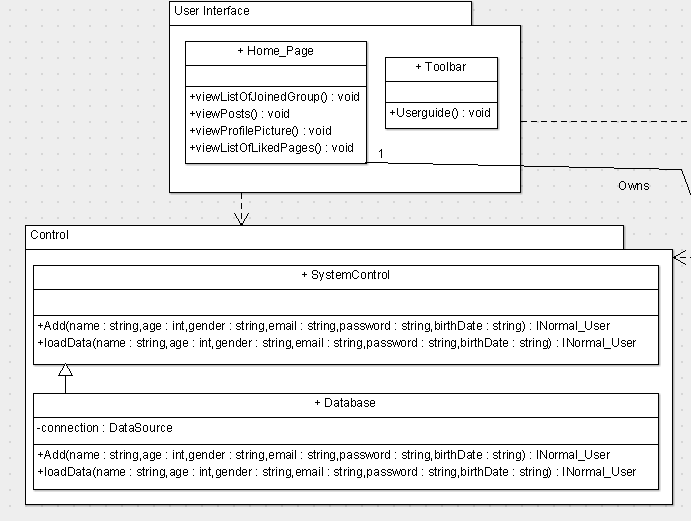
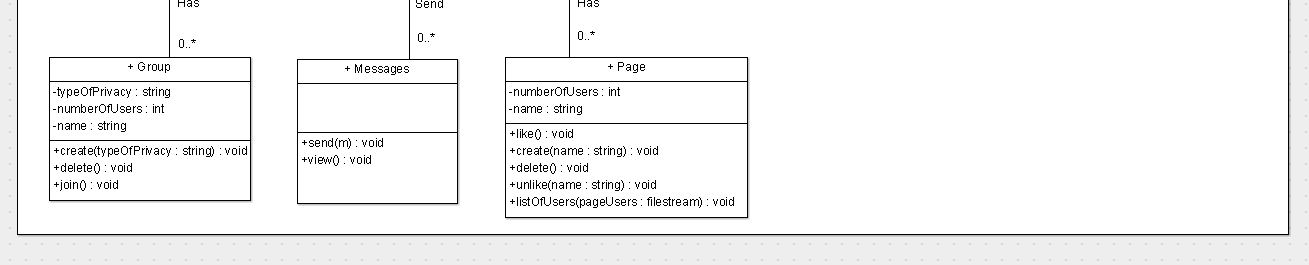
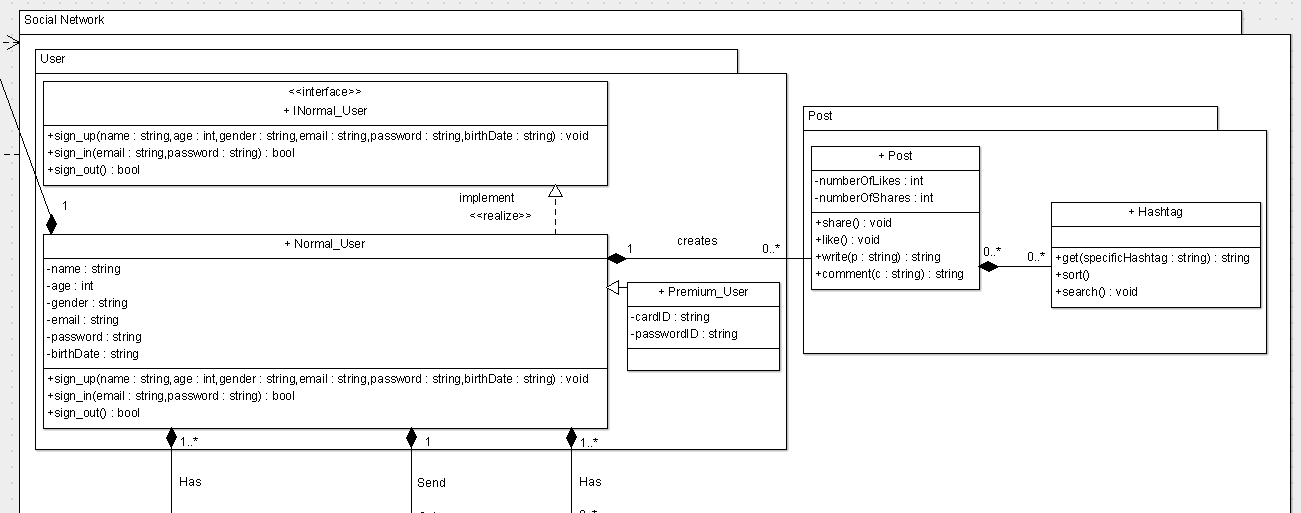
* This document is presenting a software requirements specifications, which is a description of a software system to be developed, laying out functional, non-functional requirements, and system models. It is for a back-end API (Application Programming Interface) for a Social Network, which is a dedicated 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.

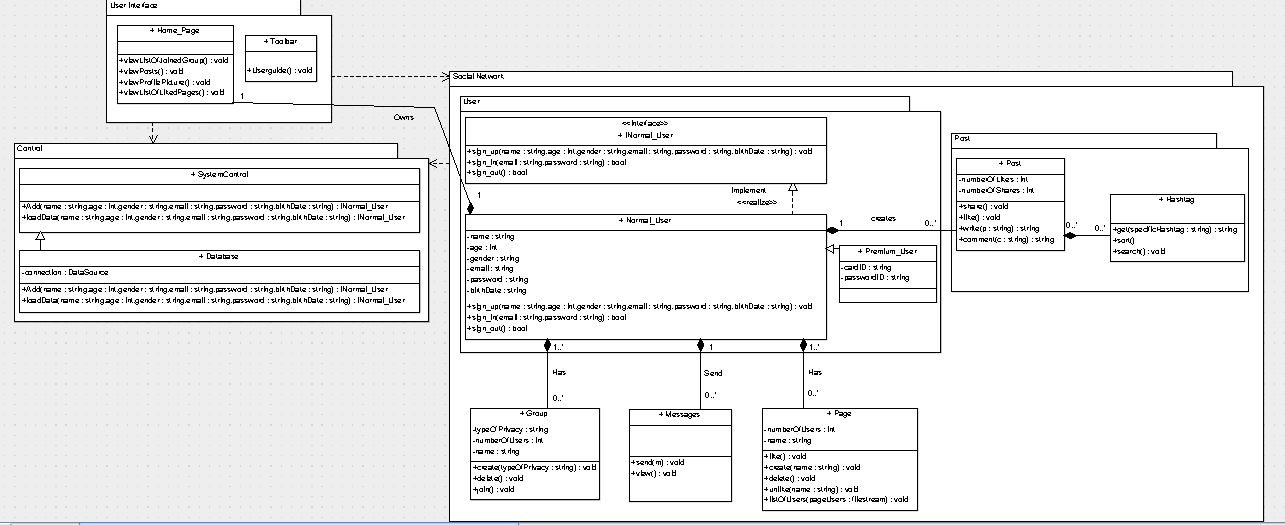
# System Models

## System Decomposition

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## Class diagrams

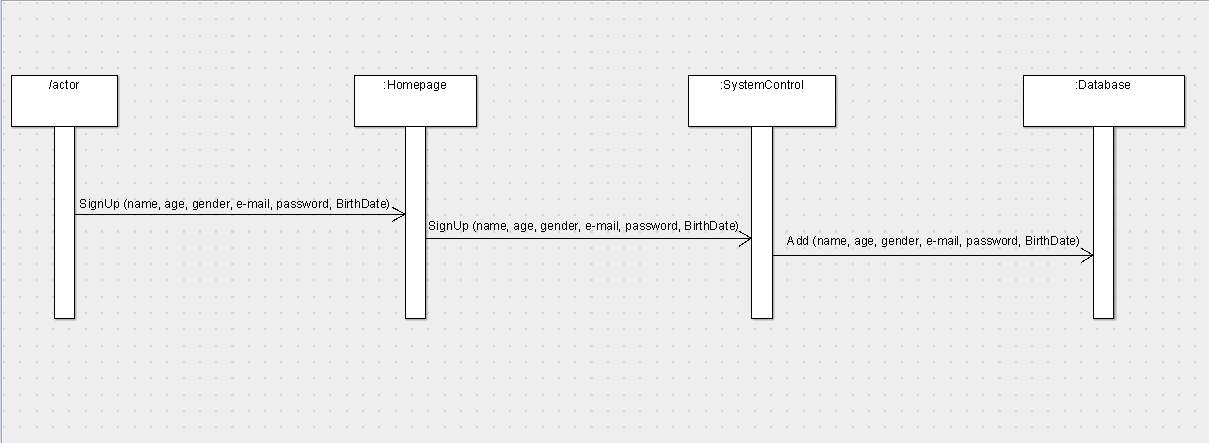
 

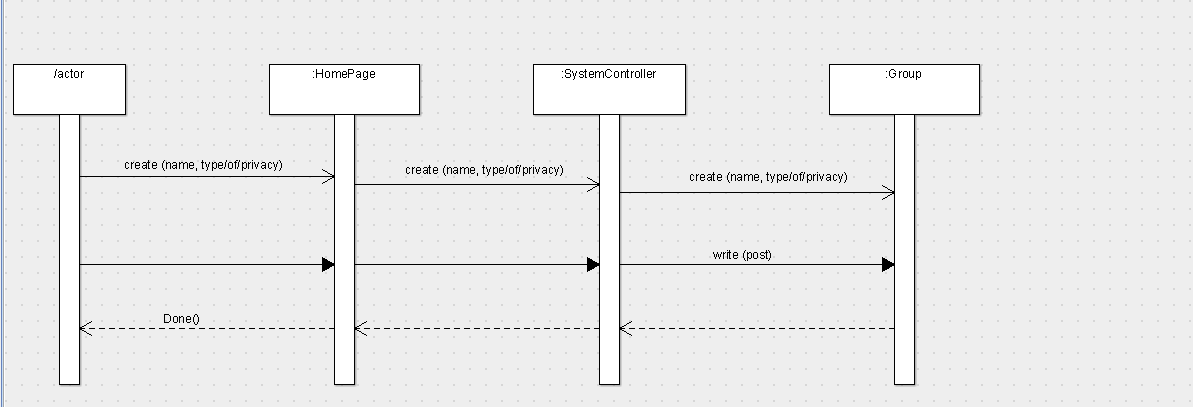
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| **Class ID** | **Class Name** | **Subsystem ID** | **Description** |
| --- | --- | --- | --- |
| 1 | SystemControl | 1 | - It is a controller class, relates the actors actions to the entity classes and to the boundary classes.  - It executes the 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). |
| 3 | NormalUser | 2 | - It's an entity class, carries the attributes of the user and the functions he can performs (sign up/ sign in/ sign out) |
| 4 | PremiumUser | 2 | - It's an entity class, carries the attributes of the premium user and the functions he can performs. It inherits from the NormalUser class and adds some extra attributes (cardID/ passwordID) |
| 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 | HomePage | 5 | - It's a boundary class. It represents the home page for the user and the list of things that he can view. |
| 11 | Toolbar | 5 | - It's a boundary class. It shows the toolbar to the actor, where he can call the user guide function. |

## Sequence diagrams

**Sequence#1:**

**Sequence#2:**



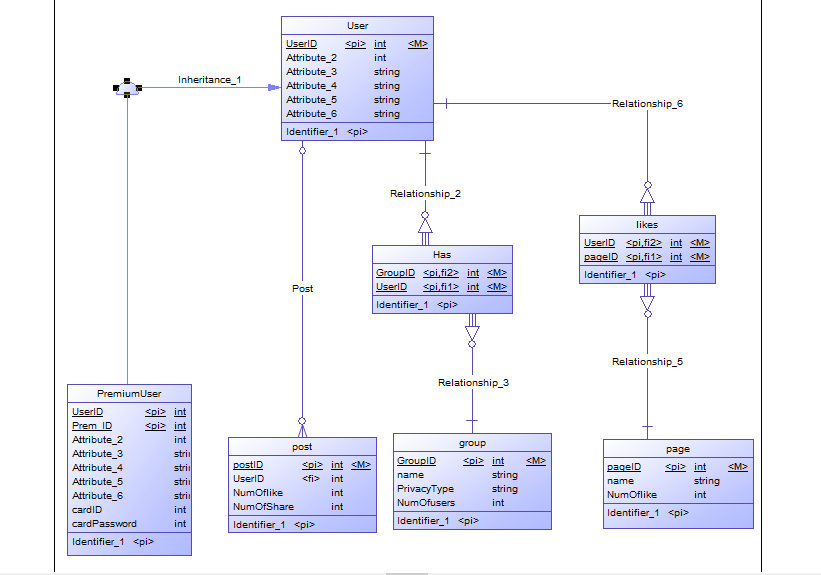
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### Class - Sequence Usage

| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| HomePage | 1, 2 | SignUp |
| SystemController | 1,2 | Add |
| Group | 2 | Create, write |
| DataBase | 1 | Add |

## 

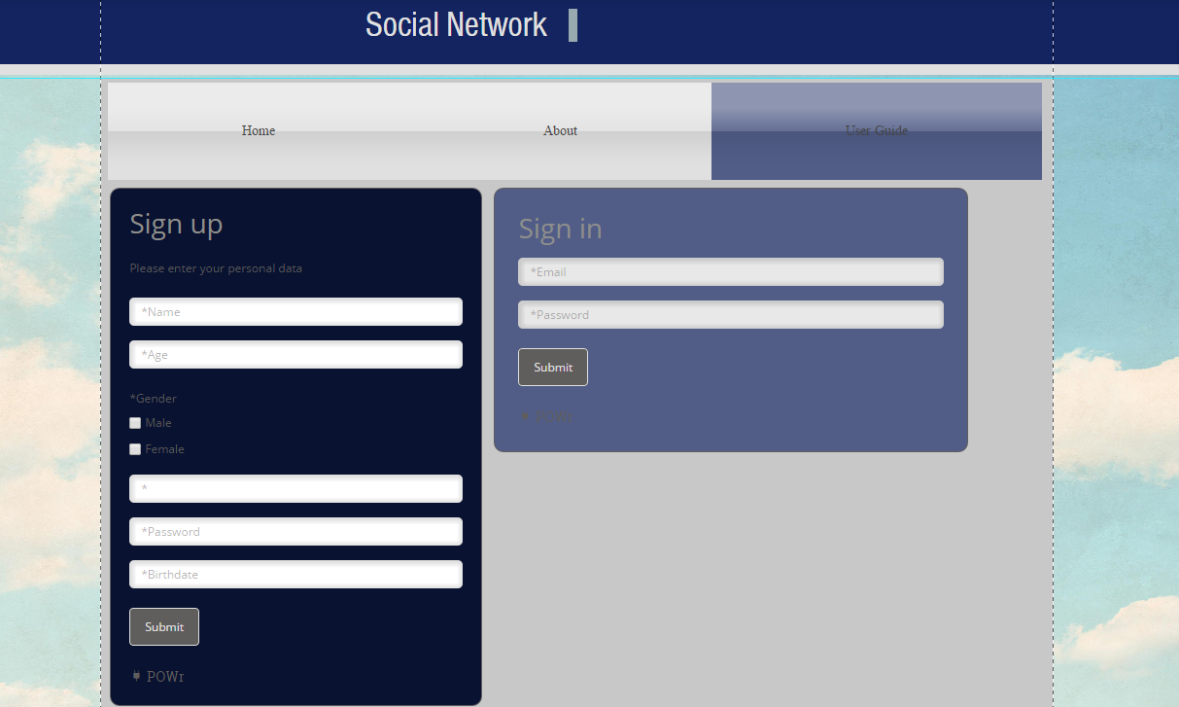
## Physical Entity-Relationship Diagram

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## User Interface Design

### Screen 1 – Sign up and sign in screen

### Screen 2 – Home page screen





# 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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