CS251: Software Engineering I

2014-2015

Project Title : Social Network

Software Requirements Specifications for social network

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CS251: Phase 2 – Social Network Specialists
Project: Social Network

Software Design Specification

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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.

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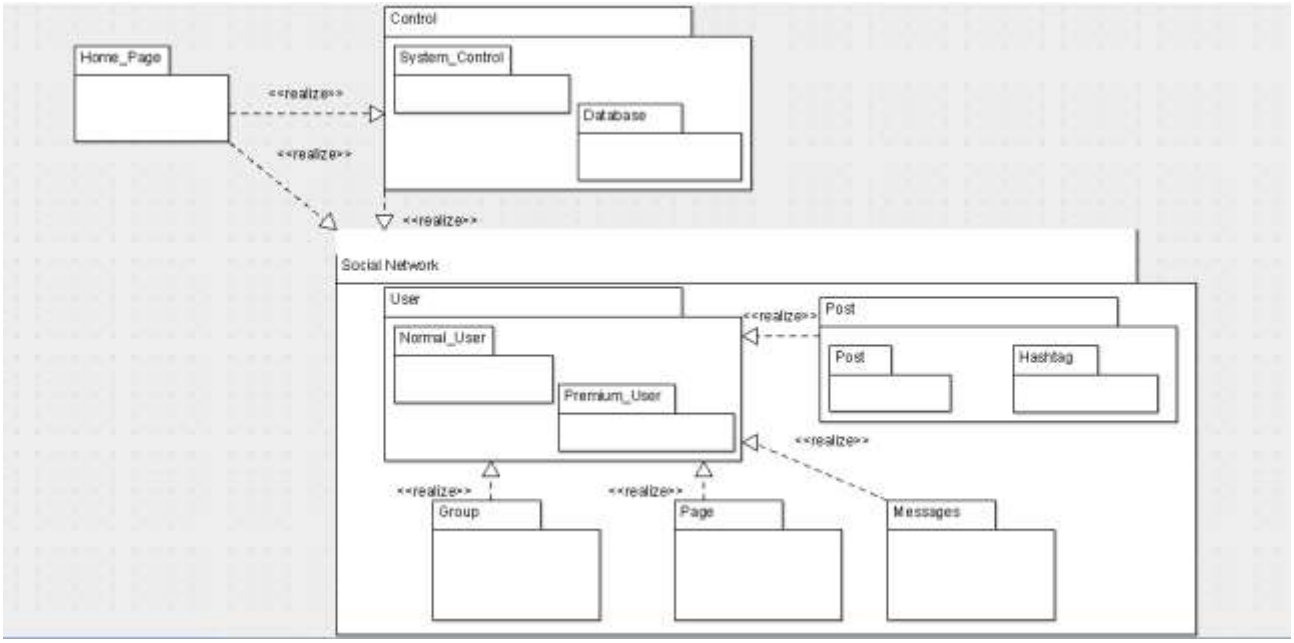
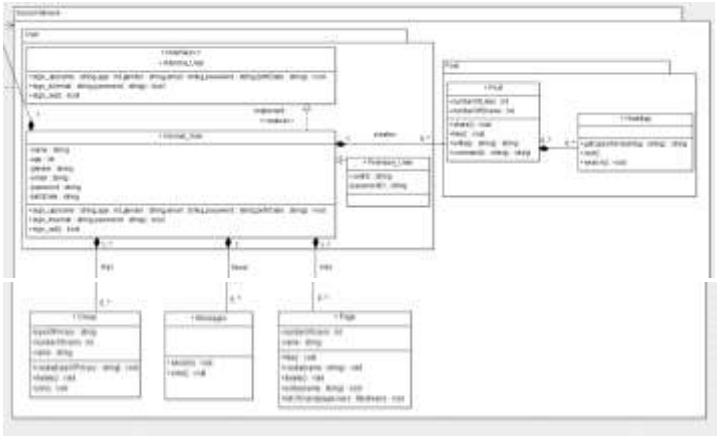
System Models

System Decomposition



Class diagrams



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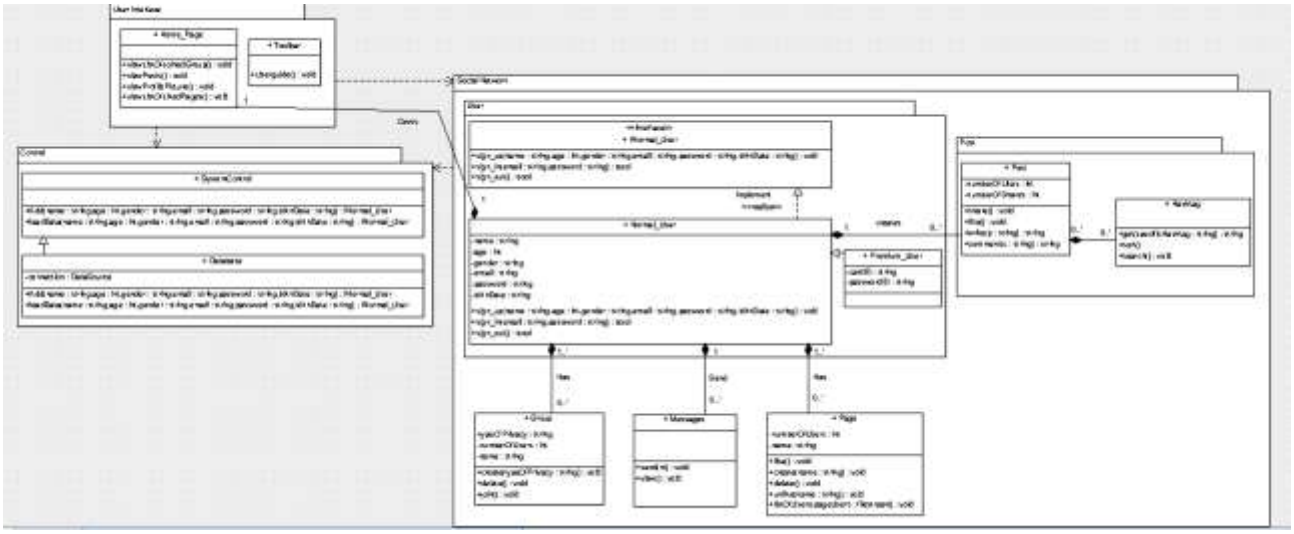

Class ID	Class Name	Subsystem ID	Description
1	SystemControl	1	- It is a controller class, relates the actors actions to the entity classes and to the boundary classes. - It executes the functions (load and add)
2	Database	1	- It's a controller class, relates the actors actions to the entity classes 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.

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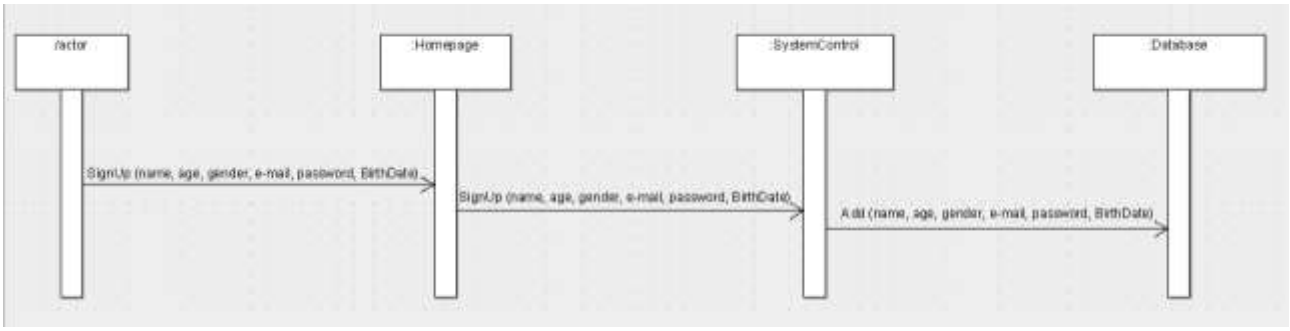
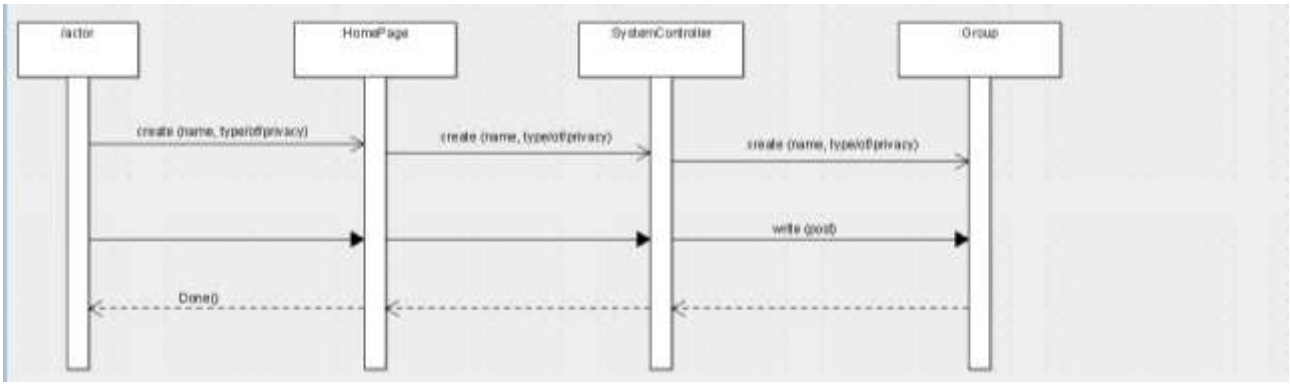
Class ID	Class Name	Subsystem ID	Description
8	Pages	4	This class is responsible of creating and managing pages by (create / delete) and enables the user to like of unlike the page.
9	Groups	4	This class is responsible of creating managing, and deleting owned groups. It enables the user to join a group. 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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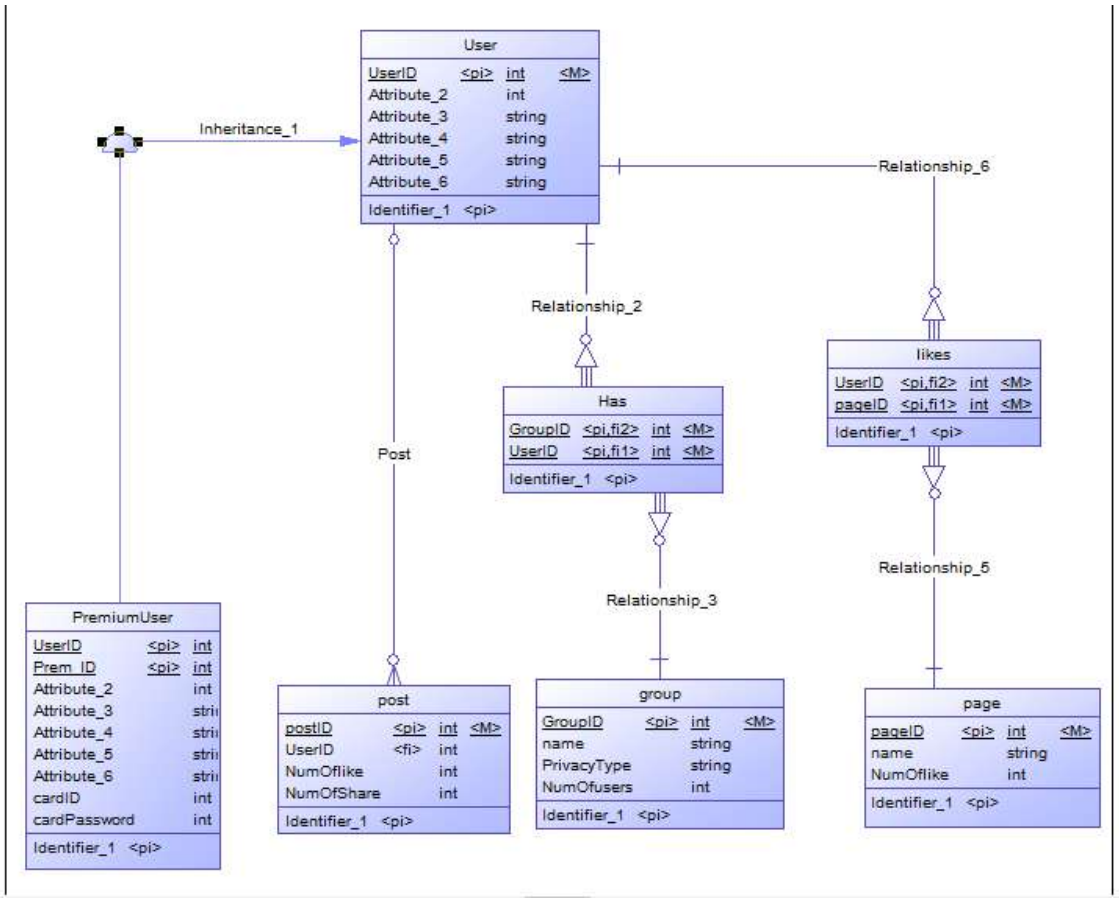
Class - Sequence Usage

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

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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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