



CS251: Software Engineering I 2014-2015
Phase 1- Social Network.
Initial SRS Document.

TA Name: Mohamed Samir.
Leader Name: Michael Adel 20120291 (3-IT).
Mail: michaelshiko2016@gmail.com.

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Team

ID	Name	Email	Mobile
20120291	Michael Adel Nazeer	Michaelshiko2016@gmail.com	01222250474
20120285	Marina Michel William	Maro.william94@gmail.com	01285643449
20120286	Marina Farag Yousef	Marina_farag93@hotmail.com	01228522235

Document Purpose and Audience

The Purpose of document: explaining the Steps of The Project as The first part of the document, including introduction that has software Scope, the second part is functional requirements and nonfunctional requirements, the final part is use case model and use case table.

The Audiences are: Project Manager, Customer, System Designer and System Analysis.

Introduction

Software Purpose

The Purpose of Project is to develop back-end API for Social Network.
Like Facebook.

The User Can Create an Account for free, Add Friends, Post Things, Share his Own Life day experience and Messaging Each Other.

Software Scope

Main components:

- 1.Users (every User Has Home Page And Profile Page)
- 2.Groups
- 3.Pages
- 4.Posts
- 5.Hashtag
- 6.Messages

Definitions, acronyms, and abbreviations

1. Graph API tool	You Can use some function to perform Specific Actions in Your Social Network . Ex: View Your Friend Picture .
2. Post	Text Content written by User. Ex: On Road to Alex .. 😊
3. Page	Page to Specific entity or Product. EX: Fan Page for an artist Page for Selling Mobile Phones
4. Hashtag	To Categorize The Content of Specified Posts ,To Make Browse Things easier by Writing the Hashtag # then Write What do you write about or read about EX: What is Functional Requirements ? #SW_Engineering
5. System Designer	the developers who participate in the system design

Requirements

Functional Requirements

User Must Create Account to Use System Functions.

And He Can Upload Photo, Post, Share, Like, Comment, Create Page, Create Group, Add Friends and Remove Friends.

1. *Create Account*

User can Create Account For Free , To Create Account You must Enter Your Username, Password, Mail, Gender and Birthdate

2. *Login*

User can Login By His Mail and Password

3. *Logout*

User can Logout The System from setting

4. ***Change Profile Picture***

User can Change his Profile Picture and Upload a new one

5. ***Deactivate Account***

User can delete his Account from System

6. ***Add Friends***

User can Add Friends By Click Add as a Friend on his Friend's Profile

7. ***Remove Friends***

User can remove any Friend by Click Unfriend on his Friend's Profile

8. ***View Friends List***

User can View his Friends List Which Contain all of His Friends

9. ***Post***

User can Post any Text on His Profile To Share it with his Friends and can also post on his friends' profile and in a group he joined or page he managed

10. ***Post Privacy***

Post can be Public, Friends only or Only Me

11. ***Message***

User can Send And receive Messages with any one on the System

12. ***Add Information***

User can add Information about him in his Profile like his old School , work place , College ... etc.

13. ***Upload Photo***

User can Upload Photos on his Profile To Share with his Friends.

14. ***Share***

User can Share anything on his Home Page with Friends.

15. ***Delete***

User can delete Posts, Photos of him, Pages he manage and Groups also.

16. ***Like***

User can Like any page on the system to follow its Contents, also can like his Friends' Posts and Photos

17. ***Comment***

User Can comment on any post of his Friends or any Content on page or group he followed

18. ***Create Page***

User can Create own Page on System To Make Propaganda for products or anything he want

19. ***Create Group***

User can Create Group on The System and he'll be The Admin of The Group and he only has the Authority to accept and remove Users from it

20. ***Join Group***

User Can Join more than Group to see its Contents

Non Functional Requirements

- **Non-functional requirements describe how the system works**
 - E.g. Withdraw operation will be done within 20 second. Network is using secured protocols. System allows up to 30,000 withdrawal per minute.
 - Think about the operation / system quality
- **There are too many non functional requirements. Read in [wiki](#). Pick the suitable ones for your system. Non-functional requirements must be VERIFIABLE, i.e., MEASURABLE.**
 - Some Types as just examples: Usability, Reliability, Performance, Security, Scalability, Portability, Maintainability
 - Select the suitable ones, for each one write the details
 - Be realistic 😊

	Details
Performance	<ul style="list-style-type: none">• Withdraw operation will be done within 20 second
Scalability	<ul style="list-style-type: none">• System could be horizontally• And• In addition

System Models

Use Case Model

- Using UML, write the use case model expressing the system actors & operations

Use Case Tables

- Using below table template, for each requirement write a use case table that shows user/system interaction
 - If one requirement is so big, you could divide it to more than table
 - If some requirements are not major, you could plugin them in other senario
 - E.g. you may not do LogIn Usecase table as it is simple functionality
- Flow of events should be very detailed

Use Case ID:	
Use Case Name:	
Actosr:	

Pre-conditions:		
Post-conditions:		
Flow of events:	User Action	System Action
	1- User Enter Card and Password.	
		2- System Verify user data
	3- User Select Vodafone from the list	
		4- System retrieves Vodafone bills
	and so on	
Exceptions:		
Includes:		
Notes and Issues:		

Ownership Report

Item	Owners