



CS251 – Software Engineering I

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Software Requirements Specifications

Team

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Document Purpose and Audience

- This document is software requirement specifications for social network project
- It describe phase 1 for the project
- This document is made to be read by faculty of computer and information science doctor's and teaching assistant –Eng Mohamed Samir – and any other interesting of social network .



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Introduction

Software Purpose

- This document purpose is to develop back-end API for social network .
- This back end API should be able to manage interactions between users , create and manage page /group, manage different type of posts and store posts

Software Scope

- social network connects people.
- The aim is to provide information to the users about the events and the people whom they know.
- The users can add friends, share videos
- upload photos, comment on their friends sharing
- chatting with their friends and become informed about their friends
- people can create social groups for such as university clubs, football clubs
- it could be a great tool for business or anyone who trying to develop their professional network or look for a job

Definitions, acronyms, and abbreviations

- **API:** application programming interface
- **Back-end API :** it is the interface that must be implemented when you create a backend . it is a class that created by the software engineering that approved a start point for the application . in this application it is a start point to social network web .

Requirements

Functional Requirements

- **User**
- **Function Requirement 1**



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- **Name: sign up**
- **Description**
- **This function is the main function in the project it is allow user to create account for user**
- **Input**
- **User personal information**
- **Processing**
- **Creating new account with the user personal information**
- **Output**
- **Account with user information**
-
-
- **Function Requirement 2**
- **Name: login**
- **Description**
- **This function allow user to enter his account whenever he/she wants' to**
- **Input**
- **User password and email**
- **Processing**
- **Matching the entered email and password with the original one**
- **Output**
- **Open the account if matching is correct otherwise show error message**
-
- **Function Requirement 3**
- **Name: logout**
- **Description**
- **This function allow user to close his account**
- **Output**
- **Close the account**
-
- **Function Requirement 4**
- **Name: user type**
- **Description**
- **This function identify the user type user could be "normal or primary " user**
- **Normal user is a free user having a limited features**
- **Primary user has more feature and operation by paying money**



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- **Input**
- **User enter the credit card to be primary user**
- **Processing**
- **Check the credit card availability**
- **Output**
- **Giving new features for the primary user**
-
-
- **Function Requirement 5**
- **Name: edited**
- **Description**
- **This function allow user to change their personal information**
- **Input**
- **User old information and user new information**
- **Processing**
- **Changing the personal information and the account**
- **Output**
- **Edited account**
-
- **Function Requirement 6**
- **Name: upload**
- **Description**
- **User can upload profile picture ,music, video and book**
- **Input**
- **The thing that will be uploaded**
- **Processing**
- **Put the upload file in the user account**
- **Output**
- **New file in your account**
-
- **Function Requirement 7**
- **Name: add friend**
- **Description**
- **User can adding other user -friend- to his account to catch up with his/her friends ,see their photos ,statues and listen to their music .**



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- **If it is a normal user account then it has a limited number of friends but in case of primary user account then unlimited number of friends**
- **Input**
- **The friend's name**
- **Processing**
- **Add friend's account to the user account**
- **Output**
- **Catch up with the friends**
-
-
- **Function Requirement 8**
- **Name: join groups**
- **Description**
- **User can enter groups and interact with other users**
- **If it is a normal user account then it has a limited number of groups to join but in case of primary user account then unlimited number of groups**
- **Input**
- **Group name**
- **Processing**
- **Putting user into the required group**
- **Output**
- **Enter the group**
-
-
- **Function Requirement 9**
- **Name: join pages**
- **Description**
- **User can enter pages and interact with other users**
- **If it is a normal user account then it has a limited number of pages to join but in case of primary user account then unlimited number of pages**
- **Input**
- **Page name**
- **Processing**
- **Putting user into the required page**
- **Output**
- **Enter the page**



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- **Function Requirement 10**
- **Name:** post
- **Description**
- User can write and share post that describe his/her statue
- **Input**
- Write data
- **Processing**
- Putting post into user's account
-
-
- **2-Groups**
- Some people communicate with each other to discuss various topics
-
- **Functional requirement 11**
- **Description**
- Creating group (public for all people, or private for just only some of people).
- **Input**
- Name and flag of group.
- **Processing**
- Send name to administrator, receive response from him.
- **Output**
- If the name already exists then cancel the creation of the group and error message is displayed.
- If the name does not exist do creation process.
-
-
- **Functional requirement 12**
- **Description**
- Ability for premium user to add or remove members.
- **Input**
- Name of premium user and name of normal user.
- **Process**
- Accept process of adding or removing normal user.



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- **Output**
- **If adding: Normal user become member and can communicate with other users.**
- **If removing: Normal user become out of group.**
-
-
- **Functional requirement 13**
- **Description**
- **Add special user to help the users and to manage the group called "admin".**
- **Input**
- **Name of special user.**
- **Process**
- **Make special user as manager.**
- **Output**
- **This user can perform tasks of premium user.**
-
- **Functional requirement 14**
- **Description**
- **Ability for changing Group Name or cover photo at any time.**
- **Input**
- **New name or cover photo or both.**
- **Process**
- **Exchange name or cover.**
- **Output**
- **Display the new name and new cover for users.**
-
- **Functional requirement 15**
- **Description**
- **Anyone can join to this group (public group).**
- **Process**
- **Clicking on the word join.**
- **Output**
- **Message acceptable is displayed.**
-
- **Functional requirement 16**
- **Description**
- **Two options:**



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- **1-anyone can publish posts in the group without conditions.**
- **a- Anyone can publish only if the admin accept to publish this post.**
- **2-the only admin who can publish these posts.**
- **Input**
- **Sentences to be published.**
- **Process**
- **Publishing these sentences on the group.**
- **Output**
- **Put posts on the wall of group.**
-
- **3-pages**
-
- **Functional requirement 17**
- **Description**
- **Creating Page.**
- **Input**
- **Name and type of page (organization, product, fun...).**
- **Processing**
- **Send specifications, receive response.**
- **Output**
- **If the name already exists then cancel the creation of the page and error message is displayed.**
- **If the name does not exist do creation process.**
-
- **Functional requirement 18**
- **Description**
- **Communicates with messages.**
- **Input**
- **Message of user.**
- **Process**
- **Sending message to admin.**
- **Output**
- **Appearance of message box.**



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- **Functional requirement 19**
- **Description**
- **Like this page and see any posts in it or know the members.**
- **Process**
- **Clicking to like button.**
- **Output**
- **This member can see posts and put post in the page.**
-
- **Functional requirement 20**
- **Description**
- **Tags to others members who out of page in photos or videos.**
- **Input**
- **Name of members.**
- **Process**
- **Calling these members to see photo or video.**
- **Output**
- **Other user see photo and may be like this page.**
-
- **Functional requirement 21**
- **Description**
- **Allows the response to the comments in page.**
- **Process**
- **Making a response.**
- **Output**
- **Appearance of comments with their responses.**
-
- **Functional requirement 22**
- **Description**
- **Two options:**
- **1-anyone can publish posts in the Page without conditions.**
- **a- Anyone can publish only if the admin accept to publish this post.**
- **2-the only admin who can publish these posts.**
- **Input**
- **Sentences to be published.**
- **Process**



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- **Publishing these sentences on the Pages.**
- **Output**
- **Put posts on the wall of group.**
-
- **Functional requirement 23**
- **Description**
- **Delete the page permanently.**
- **Process**
- **Deleting page.**
- **Output**
- **There is no page of that name.**
-
- **4-Post**
- **Function Requirement 24**
- **Name: like**
- **Description**
- **User can expresses their admiration to the post by choosing like**
- **Output**
- **Friend's name who like the post**
-
- **Function Requirement 25**
- **Name: share**
- **Description**
- **User can expresses their admiration to the post by sharing the post into their account and their pages or groups**
- **Output**
- **Friend's name who share the post and where it goes to**
-
- **Function Requirement 26**
- **Name: comment**
- **Description**
- **User's friend can interact with the person who write the post and expresses their opinion by choosing comment**
- **Output**
- **Friend's name who comment and what did he said**
-



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- **Function Requirement 27**
- **Name:** post type
- **Description**
- There is many types of posts like user post, page post ,post written by primary user and post written by normal user
-
- **Function Requirement 28**
- **Name:** number of likes
- **Description**
- This function is for counting the number of persons who liked this post
-
- **Function Requirement 29**
- **Name:** number of shares
- **Description**
- This function is for counting the number of persons who shared this post
-
- **Create hashtag**
-
- **Function Requirement 30**
- **Description**
- Create hash tag by using this operator (#) plus hash tag name
- **Input**
- Hash tag name
- **Output**
- Hash tag will appear randomly after putting the hash tag name
-
- **Function Requirement 31**
- **Description**
- Hash tag name will store according to the importance
- **Input**
- Hash tag name
- **Process**
- The hash tag posts will ordered by number of likes on the post, and the user type
- User can use hash tags to categorize the content of specific post
- **Output**



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- Hash tags ordered according to importance
-
- **Message**
- **Function Requirement 32**
- **Description**
- -chatting, sending, receiving information between two friends
- Message may be writing words or using video call
- **Input**
- User1Name, user 2name.
- **Process**
- User chat (connects) with his/her friends by writing words
- **Output**
- Message box, time of receiving message
- Message between more than 2 users
-
- **Function Requirement 33**
- **Description**
- Sending/receiving information among more than two users
- **Input**
- User1 name, user2 name, And so on.
- **Content of message**
- **Process**
- The premium user may add more than two friends at one message.
- **Output**
- Message box, time of receiving message
-
- **Function Requirement 34**
- **Description**
- Sending/receiving (files-photos-videos) from premium user to normal users
- **Input**
- Sending wanted (file-photos-videos), then sending it
- **Process**
- Loading wanted file to be sent to others
- **Output**
- Receiving the sending file by other wanted user
-



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- **Function Requirement 35**
- **Description**
- **Contact with friends by using video calls.**
- **Input**
- **Sending a request to friends for calling them face to face**
- **Process**
- **Normal user may accept /refuse the request**
- **Output**
- **Exchange information and talking face to face /also with writing words (accepting the request)**
- **Sending a message for refused request**