CS251 –Software Engineering I

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CS251: Phase 1 – Team Name
Project: <FCIResearch>

Software Requirements Specifications

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Instructions[To be removed]

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Document Purpose and Audience

- **Purpose** :
- This document describes completely the system in terms of functional and nonfunctional requirements and it can be considered as a contract between client and developer.

- **Audience**:
- The audience for this includes the client, the users, the project management, the developers who participate in the requirements, and the system designers.

Introduction

Software Purpose

- This software system aims to connect FCI researchers together
- Provide an easy access for research outcomes, share knowledge, and get answers for their questions

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- The system introduce different researchers to each other.
- Researchers with similar interests can post and answer questions to each other, and can also send public questions for all members.
- Each researcher should be able to create research groups and add members to it

Software Scope

- This software system will be FCIResearch which aims to connect FCI researchers (doctors, teaching assistants, and students of research interests) together. This system will be designed toprovide an easy access for research outcomes, share knowledge, and get answers for their questions .by providingprofile foreach researcher with an overview about himself, and description for his research interests. Researcher can select research topics of his interest, and"FCIResearch" should tag each user according to his selected topics. Using these tags, the system should be able to introduce different researchers to each other. Researchers with similar interests can post and answer questions to each other, and can also send public questions for all members.
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- More specifically each researcher can share his research outcomes (publications, technical documents, presentations, code, etc.)
- The software will facilitate communication between doctors, teaching assistants, and students as Researchers can ask the author researcher for access to any of his resources/outcomes.
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- Each researcher should be able to create research groups and add members to it. Only group creator can delete it. "FCIResarch" should have a separate page/link for current existing research groups with its descriptions, and contacts for its members. Non-members can send a notification for group creator to join his group hence can either confirm or reject.

Requirements

Functional Requirements
- Sign up()
  - Ask the user to enter his FCI E-mail and a password to make an account for him on the site.
- login ()

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- o Ask user for his login information like the E-mail and password to access his account on the site. (He must be signed up first).

- selectTopic()
  - o The Researcher can select research topics of his interest

- tagUser()
  - o The FCIResearch will tag every researcher (user) according to his selected topic.

- introduceResearchers ()
  - o the system will introduce different researchers to each other using the tags in tagUser function

- postQuestion()
  - o by using this function researchers with similar interests will be able to post questions to each other

- answeQuestion()
  - o by using this function researchers with similar interests will be able to answer questions that were posted using postQuestion() function.

- publicQuestion()
  - o by using this function researchers can send public questions to all members.

- shareOutcome()
  - o by using this function researchers will be able to share his research outcome (publications, technical documents, presentations, code, etc)

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- sendingNotificationAccess()
  - In this function researcher ask the author for access to this resources and outcomes by sending him notifications describing the purpose of access to this resource.

- replyNotification()
  - In this function author can reply the notification that was sent by the user using the function sendingNotificationAccess().

- selectAction()
  - In this function the author select "will send mail" action, so he will later respond by a private mail for the resource requester that was sent by the user using the function sendingNotificationAccess().

- creatGroup()
  - this function allows the researcher to create groups

- addMember()
  - This function allows the researcher to add members to the group he created using the function creatGroup().

- edit()
  - this function allows the member in the group to edit its name, description, members, and meeting times.

- delete()
  - this function allow only group creator do delete the group.

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- currentGroups()
  - In this function there will be a link or page for existing research groups with its descriptions, and contacts for its members.

- sendGroupNotification ()
  - This function allows Non-members to send a notification for group creator to join his group.

- replyGroupNotification()
  - In this function group creator can reply the notification that was sent by the user using the function sendNotificationToGroup().

- selectCreatorAction()
  - In this function the creatorr select "will send mail" action, so he will later respond him by a private mail (may ask for meeting, request info, etc).

- confirmMember()
  - this function is used by group creator to confirm member to join the group .

- rejectMember()
  - this function is used by group creator to reject member from joining the group.

- Create Profile
  o The user edit his profile by adding photo, job description, affiliations, overview about himself and description about his interests

- logout ()
  - this function is used by researcher when we aims to logout from his account and close it for that moment.

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Policy Regarding Plagiarism:

Students have collective ownership and responsibility of their project. Any violation of academic honesty will have severe consequences and punishment for ALL team members.

Use case

- Sign up()

Name	Sign up
Actors	doctors, teaching assistants, and students of research interests
Goals	Try to create account in the site to benefit from knowledge on it and share questions
D. Preconditions	User don't have account in it so he can't access the side
Summary	user creates account in the site to benefit from knowledge on it and share questions
Related use cases	

Steps	User actor	System actor	
	User enter name and password and this info		
		System create profile for user	
Postconditions	System will create profile for this user		

- login ()

Name	login
Actors	doctors, teaching assistants, and students of research interests

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Goals	user Access his profile in the site		
D. Preconditions	User have account in the site but can't use it and can't access it		
Summary	User access his account and benefits from service in the site		
Related use cases	Sing up		
Steps	User actor	System actor	
	User enter name and password		
		System opens his profile	
Postconditions	User can ask questions and share knowledge and communicate with other users		

- selectTopic()

Name	Select topic		
Actors	doctors, teaching assistants, and students of research interests		
Goals	User choose topics which he interested in		
D. Preconditions	User can't ask questions or share knowledge in his interested topics		
Summary	User select topics which he interested in		
Related use cases	Login , tag user		
Steps	User actor	System actor	
	Login		
		System open his profile	
	User choose topic		
		System put them in his interested and give him the right to see what	

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		user post about this topic and send him notifications	
Postconditions	User can ask questions in this topic and see others questions and documents		

Tag user

Name	Tag user		
Actors	System		
Goals	User get notification about topic which his choose		
D. Preconditions	Other users post in this topic		
Summary	-Other users post in this topic and system tage user to show others posts - Users can see his questions , topic of other users who interested also in this topic		
Related use cases			
Steps	User actor	System actor	
	Login		
		System open his profile	
	Post in this topic		
		Send tag about this post to other users interested in this topic	
Postconditions	System send tag to user in see what others shared in this toppic		

- post Question()

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Name	Post Question()		
Actors	doctors, teaching assistants, and students of research interests		
Goals	Users get answer for their questions from other users in the same topic		
Preconditions	No thing		
Summary	User share questions with others in the same topic		
Related use cases	Tag user		
Steps	User actor	System actor	
	Login		
		System open his profile	
	User post question in some topic		
		Tag other users in this topic	
Postconditions	Other user will be tagged on this question		

- answeQuestion()

Name	Answer Question
Actors	doctors, teaching assistants, and students of research interests
Goals	Users who know the answer of others questions will answer it
Preconditions	System tags him on other user question in the same topic
Summary	System tag user in questions in his interested topic and is this user know answer he will answer the question

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Related use cases	login post Question() Tag user	
Steps	User actor	System actor	
	Login		
		System open his profile	
	User ask question		
		System tag users in the same topic	
	User will answer the questions if he know it's nswer		
Postconditions	User who post the question will get answer for it		

- publicQuestion()

Name	Public question		
Actors	doctors, teaching assistants, and students of research interests		
Goals	Make all users in the site see this question		
Preconditions	No thing		
Summary	User will let all people in the system show this question		
Related use cases	Post question , login		
Steps	User actor	System actor	
	login		
		System open his profile	
	User ask question and let all users see it		
		System will let	

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		anyone see it and tag people in the same topic	
Postconditions		Ay one in the system can see this question	

∗ Delete()

Name	Delete	
Actors	group creator	
Goals	User want to delete a group that he created it	
Preconditions	There is a group and Each researcher able to create research groups and add members to it Member in a group can edit its name, description, members, and meeting times.	
Summary	The group creator will enter his name and the group that he want to delete and if he is actually the group creator the goup will deleted	
Basic Path	1-the user enter the name group 2-th user enter his name 3-the system check that the group name is true and the user name is actually the name of group creator	
steps	User actor	System actor
	login	
		System open his profile
	User ask to enter the name group	
		the system check that the group name is true
Postcondition	The group will be deleted	

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∗ Edit

Name	Edit
Actors	Any member in the group
Goals	Each member in the group can edit its name, description, members, and meeting times.
Preconditions	There is a group and no one in this group can edit name, description, members, and meeting times.
Summary	The user will enter his name and the group name and then he can edit
Basic Path	1-the user name enter the group name 2-the user name enter his name 3-check if the user name is actually member in the group

steps	User actor	System actor	
	login		
		System open his profile	
	-the user name enter the group name		
		check if the user name is actually member in the group	

Postcondition	The member can edit the group's name, description, members, and meeting times.

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* Add Member()

Name	Add Member
Actors	Researcher and Non-member that he want to be added to the group
Goals	allows the researcher to add members to the group he created using the function creatGroup() by sending him .
Preconditions	The researcher created an group and can't add members to this group.
Summary	Non-members can send a notification for group creator to join his group and group creator can reply the notification or select "will send mail" action, so he will later respond him by a private mail
Basic Path	1- Non-members will send his name 2- Non-members will send the group name that he want to join 3-the system will search for the group creator and send him notification
Steps	<table><tr><td>User actor</td><td>System actor</td><td></td></tr><tr><td>login</td><td></td><td></td></tr><tr><td></td><td>System open his profile</td><td></td></tr><tr><td>-- Non-members will send the group name that he want to join</td><td></td><td></td></tr><tr><td></td><td>the system will search for the group creator and send him notification</td><td></td></tr></table>
Postcondition	If the group creator replay the Non-member will be added to the group and the member will increase one .

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* Create Group

Name	Create Group	
Actors	researcher	
Goals	Enable the researcher to create a group	
Preconditions	There is no page that the researcher want to create	
Summary	The creator will enter the group name and then the group will be created	
Basic Path	1-the researcher will enter his name 2- the researcher will enter the page name 3- check if this name of the page is found before or not In case (3)if the name of the group not found then the group will be created and the researcher name will be the group creator	
steps	User actor	System actor
	login	
		System open his profile
	-- the researcher will enter the page name	
		- check if this name of the page is found before or not if the name of the group not found then the group will be created and the researcher name will be the group creator

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Postcondition	A new group will be created and his creator is the researcher		

∗- Send notification access

Name	Send notification access
Actors	Researcher and author
Goals	researcher ask the author for access to this resources and outcomes by sending him notifications describing the purpose of access to this resource
Preconditions	The researcher can't access to the author's resources
Summary	The researcher will send the name of author that he want to access to his resources
Basic Path	1- The researcher enter the name of the author 2-search if this name is found or not
Alternative Paths	In case(2) if the author's name that the researcher enter is found the system will send request to this author <table><tr><td>User actor</td><td>System actor</td></tr><tr><td>login</td><td></td></tr><tr><td></td><td>System open his profile</td></tr><tr><td>- The researcher enter the name of the author</td><td></td></tr><tr><td></td><td>- search if this name is found or not) if the author's name that the researcher enter is</td></tr></table>

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		found the system will send request to this author	
Postcondition	If the author Reply Notification the researcher can access to this resources other he can't		

＊ Reply Notification()

Name	Reply Notification
Actors	The author and the researcher
Goals	author can reply the notification that was sent by the user using the function send notification access
Preconditions	The researcher can't access the author's resourses
Summary	From the function Send notification access the author will have two choice this function is one of those and the researcher by this function can access the author's resources
Basic Path	1-from function send notification access the research name will send To this function 2- from function send notification access the research mail will send 3-the author will send word yes to the system
steps	In case(3) when the system receive word yes then it send notification to the researcher

User actor	System actor
login	
	System open his profile
	from function send notification access the

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		research name will send To this function and mail	
	the author will send word yes to the system	when the system receive word yes then it send notification to the researcher	
Postcondition	The researcher can access the author's resources		

* Share outcome()

Name	Share outcome	
Actors	doctors, teaching assistants, and students of research interests	
Goals	researchers will be able to share his research outcome	
D. Preconditions	User can't share knowledge in his research outcome	
Summary	User share his research outcome	
Related use cases	Login , tag user	
Steps	User actor	System actor
	Login	
		System open his profile
	User his research	

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		outcome		
			System share this to ather researcher	
Postconditions		User can see researcher's research outcom		

Current Groups :

Name	Current Groups	
Actors	Server	
Goals	Users use the can use the researches and contact with the authors	
Preconditions	There is members logged in to put their work on the page	
Summary	The system will tag each user according to his selected topics.	
Related use cases	Log in	
Steps	User actor	System actor
	Login	

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		System open his profile	
	User choose the topic		
		Tag user in this interest	
Postconditions		Users of the same interest can access the the topic and share them	

Send Group Notification :

Name	Send Group Notification
Actors	Non-group members
Goals	Non group members ask to be members an be able to share documents with the members and see their jobs can edit the group name, description, members, and meeting times
Preconditions	The user is logged in

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Summary	The non group member send a notification to the creator to join the group		
Related use cases	Log in		
Steps	User actor	System actor	
	Login		
		System open his profile	
	User select droup to ask to join		
	Send notification to the creator		
		System view the notification to the creator	
Postconditions	The creator either confirm or reject the notification		

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Name	Reply Group Notification
Actors	Group creator
Goals	In this function group creator can reply the notification that was sent by the user using the function sendNotificationToGroup. .
Preconditions	Non-group member sent a notification to the group to creator to join the group
Summary	Group creator either accept notification or reject it

steps	User actor	System actor	
	Login		
		System open his profile	
	Creator see the notification on the group page		
	Send notification to the non group member to accept or reject		
		System send the reply from the	

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		creator to the non group member	
	Or creator select "will send mail" action, so he will later respond him by a private mail		
Related use cases	Logged in , Send Group Notification		
Postcondition	The non group member will recieve the reply of his notification by accepted or rejected		

Select Action Creator:

Name	Select Action Creator
Actors	Group creator
Goals	In this function the creator select "will send mail" action, so he will later respond him by a private mail (may ask for meeting, request info,

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	etc).
Preconditions	The creator is logged in , Non-group member sent a notification to the group to creator to join the group
Summary	The creator choose "will send mail" to reply the notification of joinig the group
Related use cases	Log in, , Send Group Notification, Reply Group Notification

Steps	User actor	System actor	
	Login		
		System open his profile	
	creator select "will send mail" action, so he will later respond him by a private mail when he see the notification		
	Write mail with what he will do with the member		
		System send the mail to the non group member	

Postconditions	The non group member will receive the mail

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Confirm Member:

Name	Confirm Member	
Actors	Group creator	
Goals	In this function group creator can reply the notification that was sent by the user using the function sendNotificationToGroup with confirming	
Preconditions	The creator is logged in , Non-group member sent a notification to the group to creator to join the group	
Summary	The group creator confirm the notification to join the group	
Related use cases	Log in, , Send Group Notification, Reply Group Notification	
Steps	User actor	System actor
	Login	
		System open his profile
	Creator open the link	

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	of the group and see the notification	
	Creator accept the notification by press on accept button	
		System send the reply to the non group member and enable him to share the group and access it and make him a member on the member list
Postconditions	The non member will be a member and be listed in the group list	

Reject Member

Name	Reject Member
Actors	Group creator
Goals	In this function group creator can reply the notification that was sent by the user using the function sendNotificationToGroup with rejection
Preconditions	The creator is logged in , Non-group member sent a notification to the group to creator to join

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	the group
Summary	The group creator confirm the notification to join the group
Related use cases	Log in, , Send Group Notification, Reply Group Notification

Steps	User actor	System actor	
	Login		
		System open his profile	
	Creator open the link of the group and see the notification		
	Creator reject the notification by press on reject button		
		System send the reply to the non group member	
Postconditions	The non member will not be a member		

Log Out :

Name	Log out
Actors	Any user of the group

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Goals	this function is used by researcher when we aims to logout from his account and close it for that moment.
Preconditions	The user is logged in
Summary	The user can log out and make the site off for a while until he log in again
Related use cases	Log in

Steps	User actor	System actor
	Login	
		System open his profile
	The user press log out	
		System out from his page and return to the page to enter name and password if he want to log in again

Edit Profile :

Name	Edit Profile
Actors	Non FCIResearch members

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Goals	user edit his profile by adding photo, job description, affiliations, overview about himself and description about his interests
Preconditions	Check to be FCI member (Student,Techear,...)
Summary	Editing the user profile
Related use cases	Log in

Steps		
	User actor	System actor
	Login	
		System open his profile
	Select update profile	
		System show details of profile(photo,description,affiliations,scription about his interest) and enable the user to update them
	User selects the part for update and update it and	System save the updates

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	press update	

Non functionality

*security →

-the user should enter the right e-mail and password to access his profile .

-when user is sign up make sure that the user name and the e-mail Not repeated before.

-make sure that Non-member in the group can

not edit its name, description, members, and meeting times.

-the password should be greater than 8 character

*performance →

-the user can't see the topics that he is not interested to it or it's topics

-the system should can all members in fci include (doctors, teaching assistants, and students of research interests).

-make sure that Each researcher can put his

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name, photo, job description, affiliations, an overview about himself, and description for his research interests.

-make sure the system is making tag for each user according to his selected topics only.