



Course Name:Software Engineering 1

Prog: CS251

TA Name: Marwa Nabil

Project Name:FCI Research

Software Requirements Specifications 2014

Team Leader: Heba Ahmed Khazbak

Contact of Team Leader:heba.khazbak@gmail.com



CS251: Phase 2 –Project: <FCI> Software Design Specification

Contents

Team	4
Document Purpose and Audience	4
System Models	5
System Decomposition	5
Class diagrams	6
Sequence diagrams.....	8
1. Signup	8
2. Login	9
3. logout.....	9
4. Edit profile	10
5. Post Question	11
6. Add tag.....	12
7. Share research	13
8. send request to get research.....	14
9. Accept/Reject request	15
10. will send mail	16
11. Create research group	17
12. Add member, Remove member	18
13. Delete group	19
16. Send request to join group	20
18. Show groups	20
Physical Entity-Relationship Diagram	22
User Interface Design	23
Screen 1 – Login Screen	23
Screen 2 – Sign-Up Screen	24
Screen 3 – Post a Question Screen	24
Screen 4 – Add Research Screen	25



CS251: Phase 2 –Project: <FCI> Software Design Specification

Screen 5 – Create Group Screen	25
Screen 6 – Profile Screen	26
Screen 7 – Edit Profile Interface	26
Screen 8 – HomePage Screen	27
Ownership Report	28



CS251: Phase 2 –Project: <FCI> Software Design Specification

Team

ID	Name	Email	Mobile
20120516	Heba Ahmed Khazbak	heba.khazbak@gmail.com	01009595942
20120191	Sarah Hany Tammam	sarahhtammam@hotmail.com	01008332618
20120455	Yasmin Ehab Ahmed	yasmin.e.el3arene@gmail.com	01116900608
20120185	Ziad Mohamed	ziad_mohamed9473@hotmail.com	01271777806

Document Purpose and Audience

This document aims to explain the SDS (Software Design Specifications) of FCI Research project, its functions and its behaviors by showing the user interfaces and the database of the project. It explains how the program will be from a user's point of view; what will happen if he does what and how the functions are connected.

So we can say this document presents the guide, and provides a detailed overview of our software product, its parameters and goals, it's entities and the important algorithm in it.

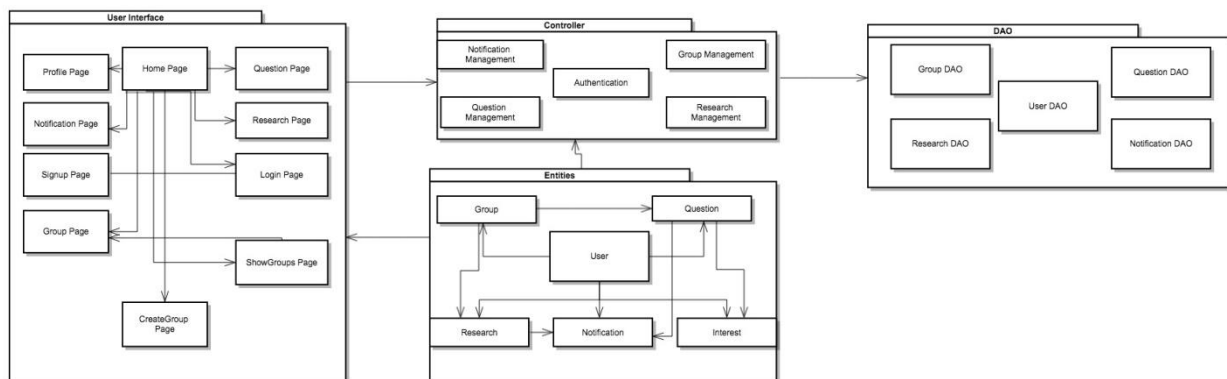
The audience for this document is the project owner who wants to create this program and the developers of the system.



CS251: Phase 2 –Project: <FCI> Software Design Specification

System Models

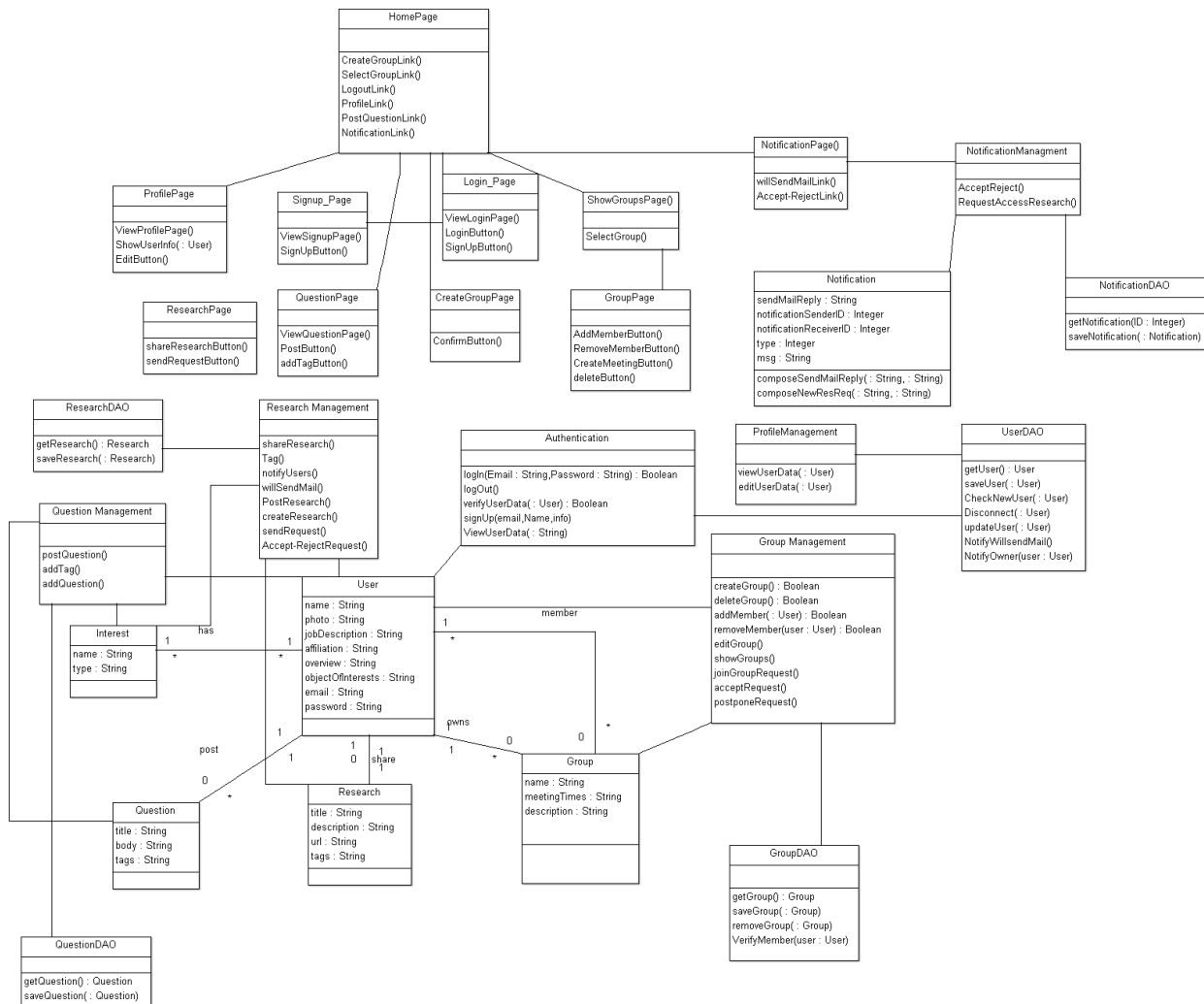
System Decomposition





CS251: Phase 2 –Project: <FCI> Software Design Specification

Class diagrams





CS251: Phase 2 –Project: <FCI> Software Design Specification

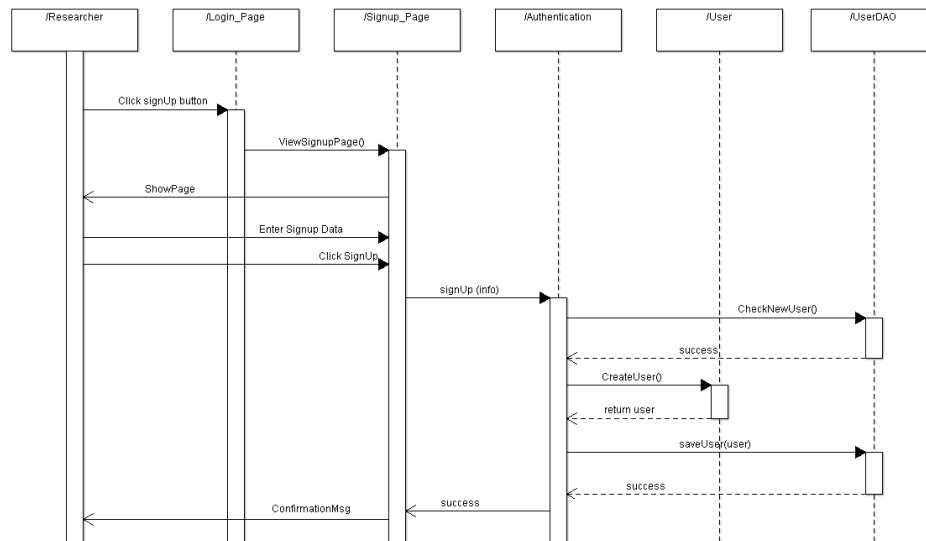
Class ID	Class Name	Subsystem ID	Description
1	Login_Page	Interface	
2	Signup_Page	Interface	
3	ResearchPage	Interface	
4	GroupsPage	Interface	
5	QuestionPage	Interface	
6	HomePage	Interface	
7	ProfilePage	Interface	
8	Create Group page	Interface	
9	User	Entity	
10	Research	Entity	
11	Question	Entity	
12	Group	Entity	
13	Interest	Entity	
14	Authentication	Control	
15	Group Management	Control	
16	Research Management	Control	
17	Question Management	Control	
18	UserDAO	Database Access	
19	ResearchDAO	Database Access	
20	QuestionDAO	Database Access	
21	GroupDAO	Database Access	



CS251: Phase 2 –Project: <FCI> Software Design Specification

Sequence diagrams

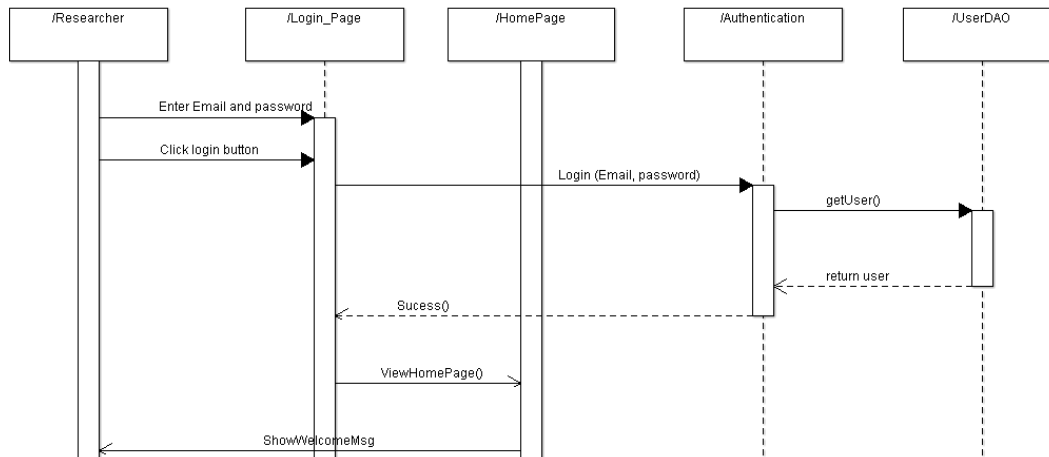
1. Signup



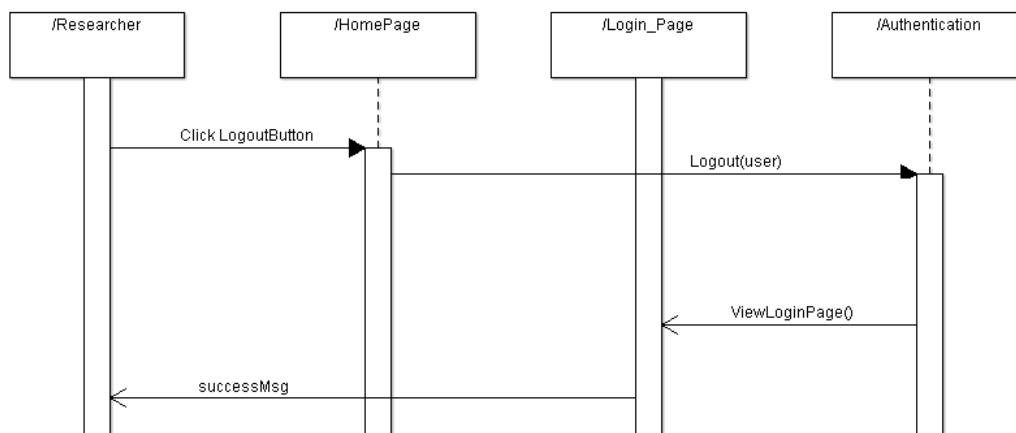


CS251: Phase 2 –Project: <FCI> Software Design Specification

2. Login



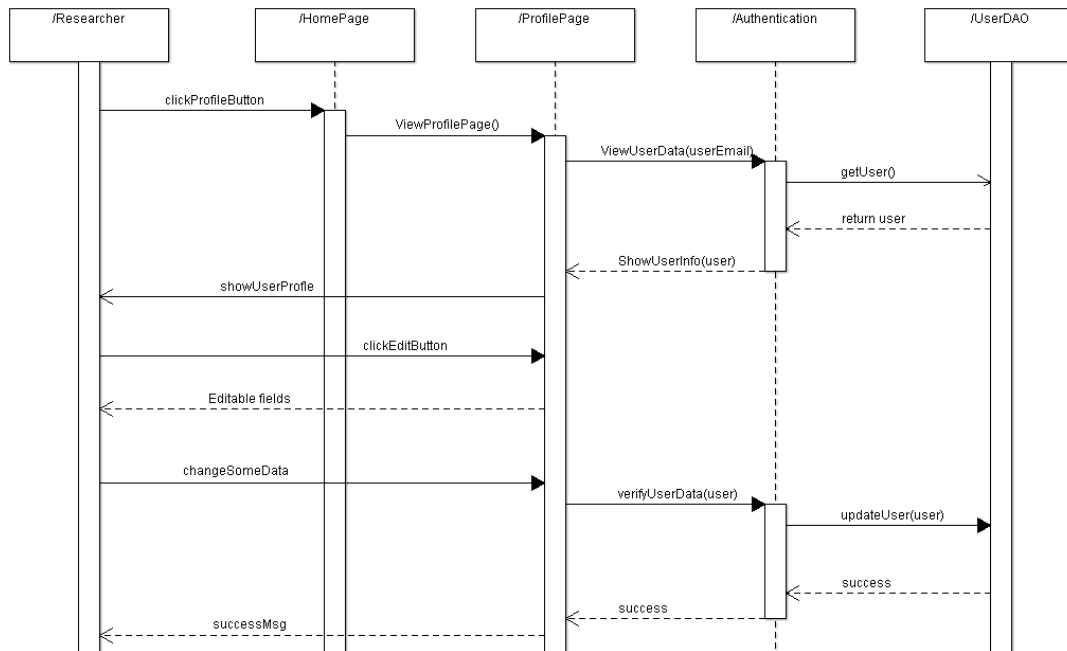
3. logout





CS251: Phase 2 – Project: <FCI> Software Design Specification

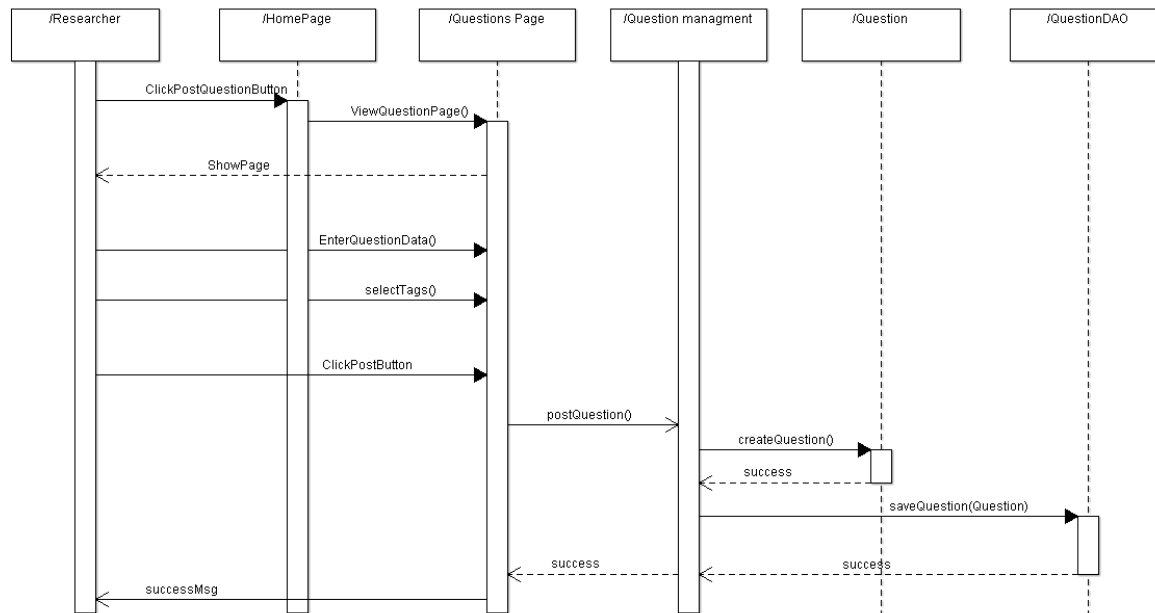
4. Edit profile





CS251: Phase 2 –Project: <FCI> Software Design Specification

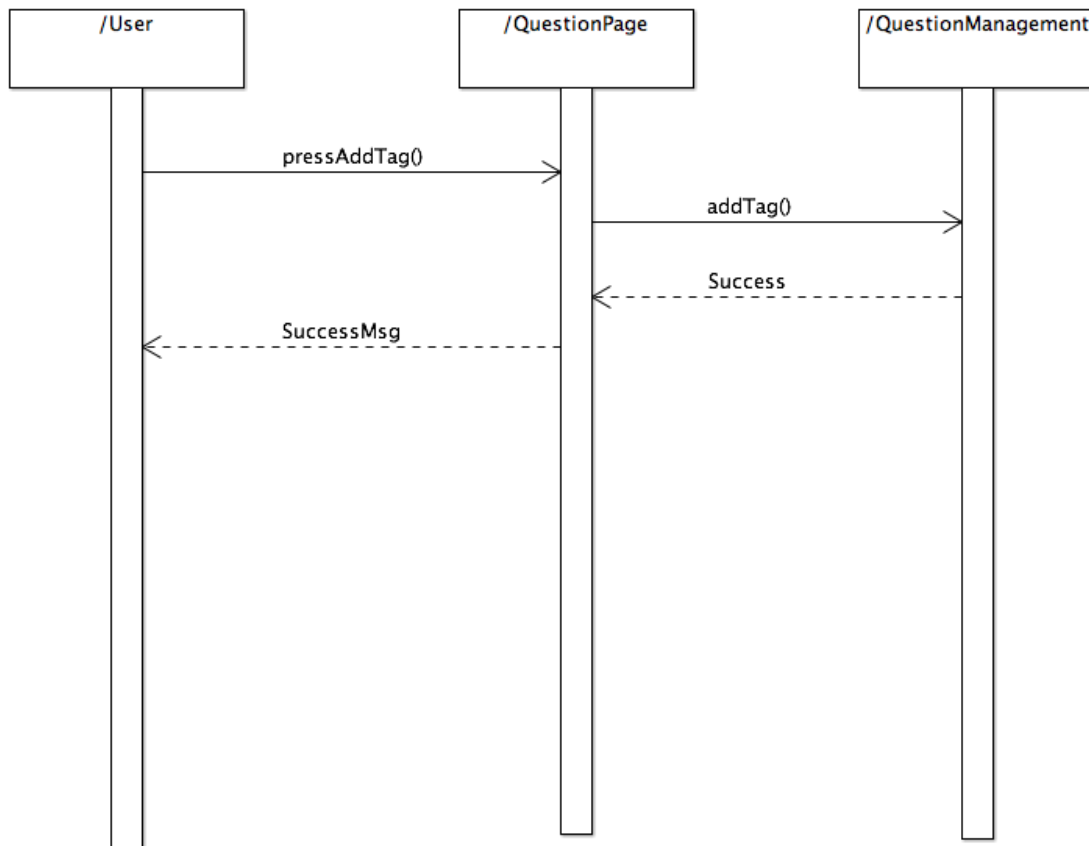
5. Post Question





CS251: Phase 2 –Project: <FCI> Software Design Specification

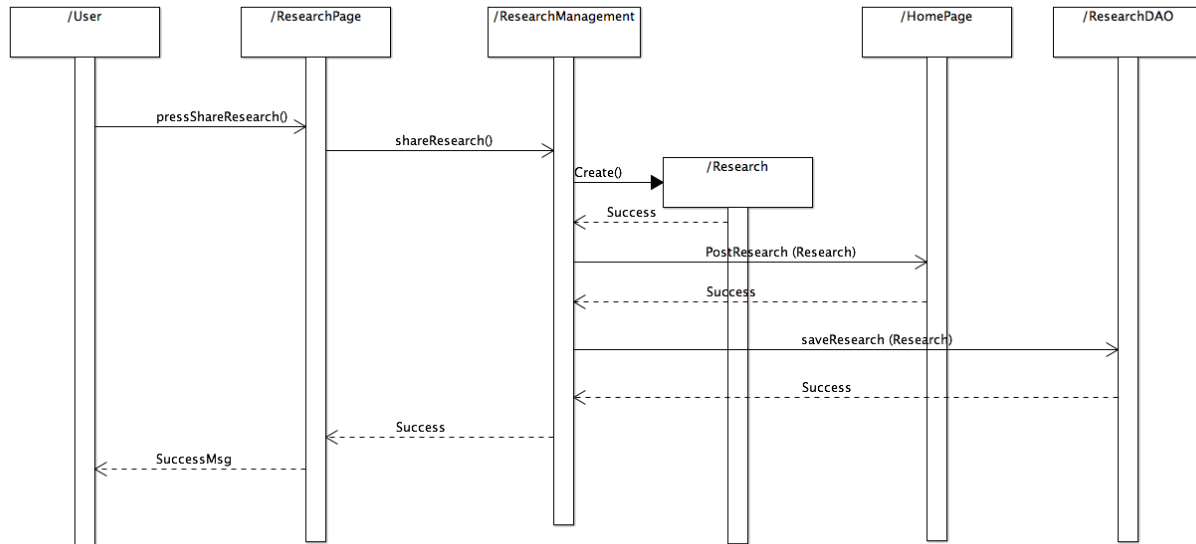
6. Add tag





CS251: Phase 2 –Project: <FCI> Software Design Specification

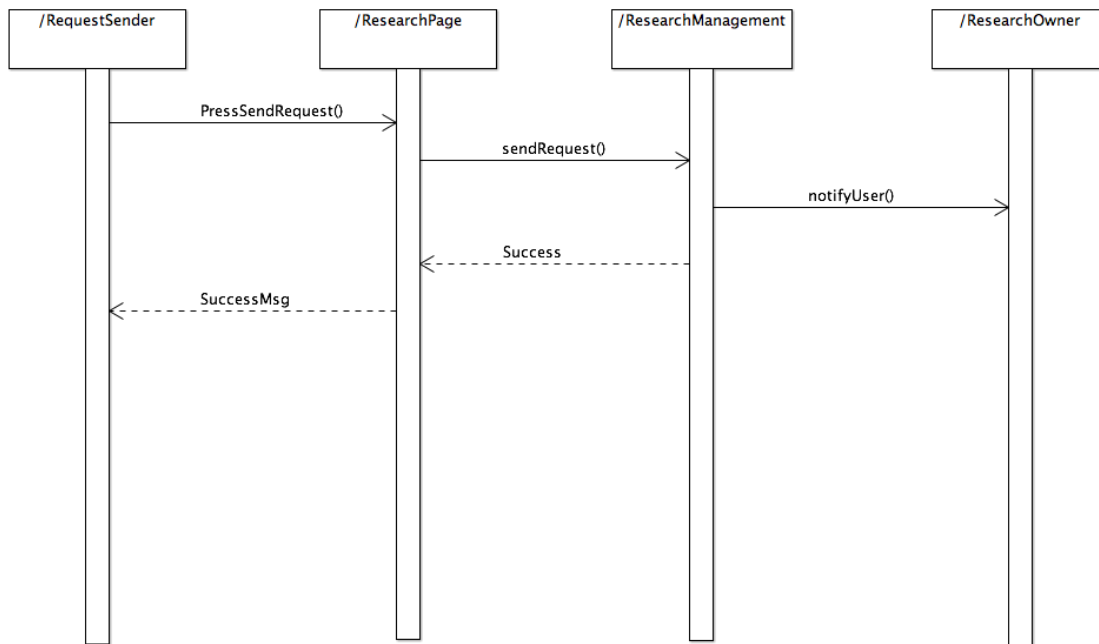
7. Share research





CS251: Phase 2 –Project: <FCI> Software Design Specification

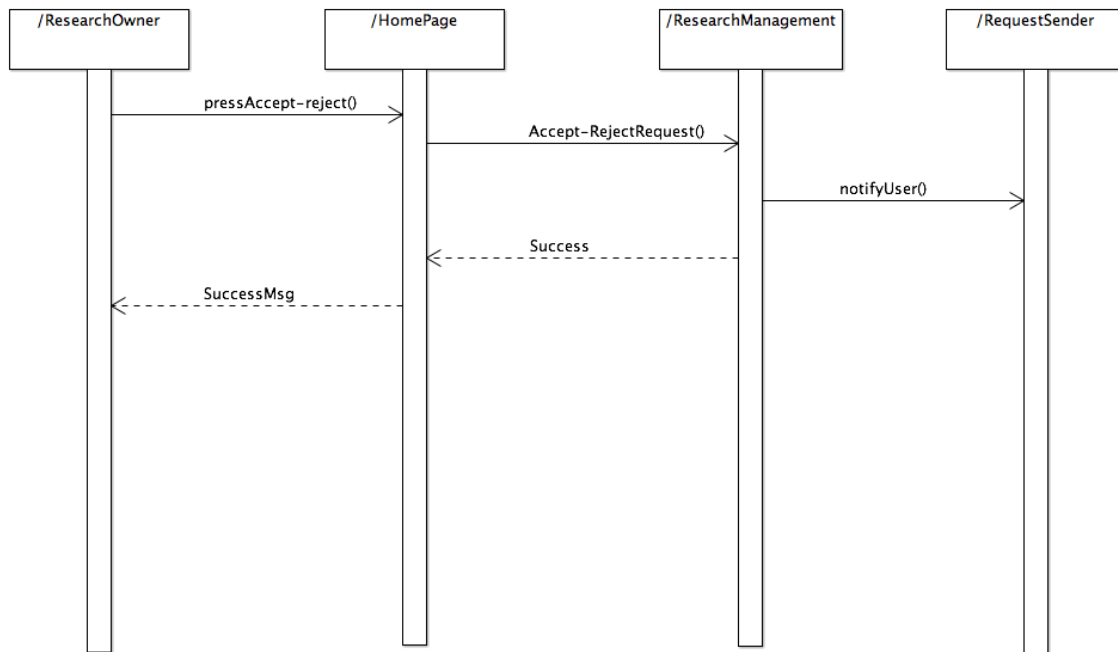
8. Send request to get research





CS251: Phase 2 –Project: <FCI> Software Design Specification

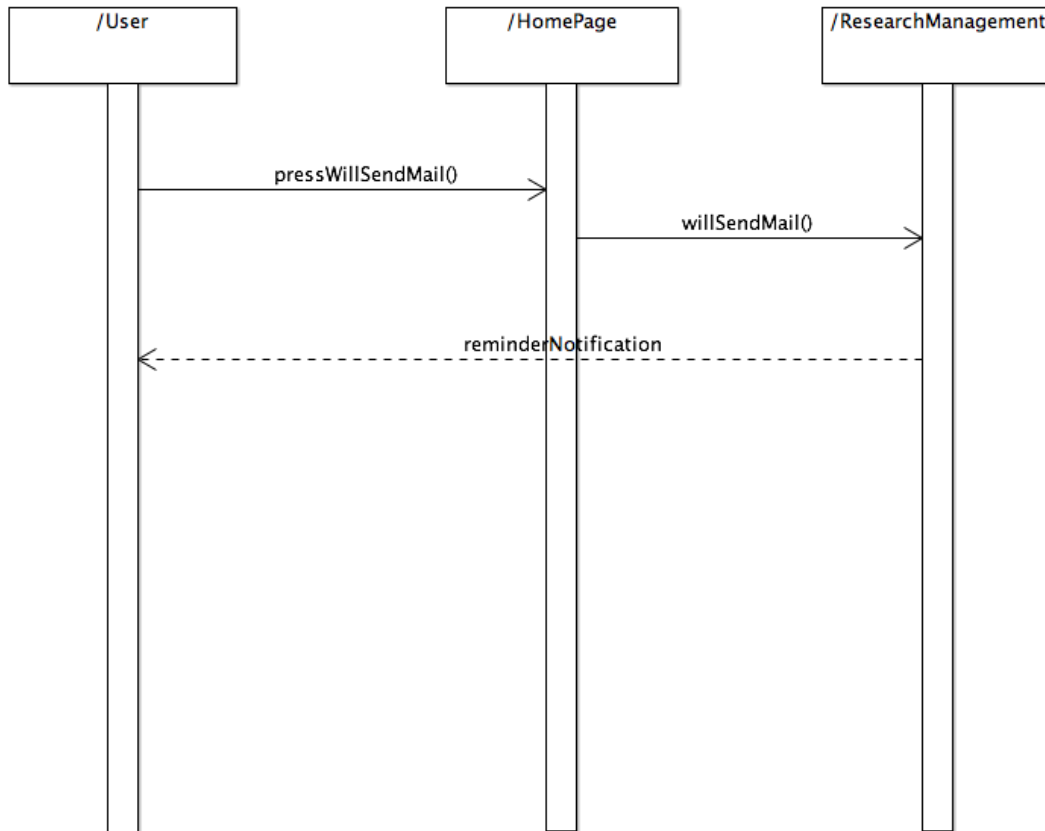
9. Accept/Reject request





CS251: Phase 2 – Project: <FCI> Software Design Specification

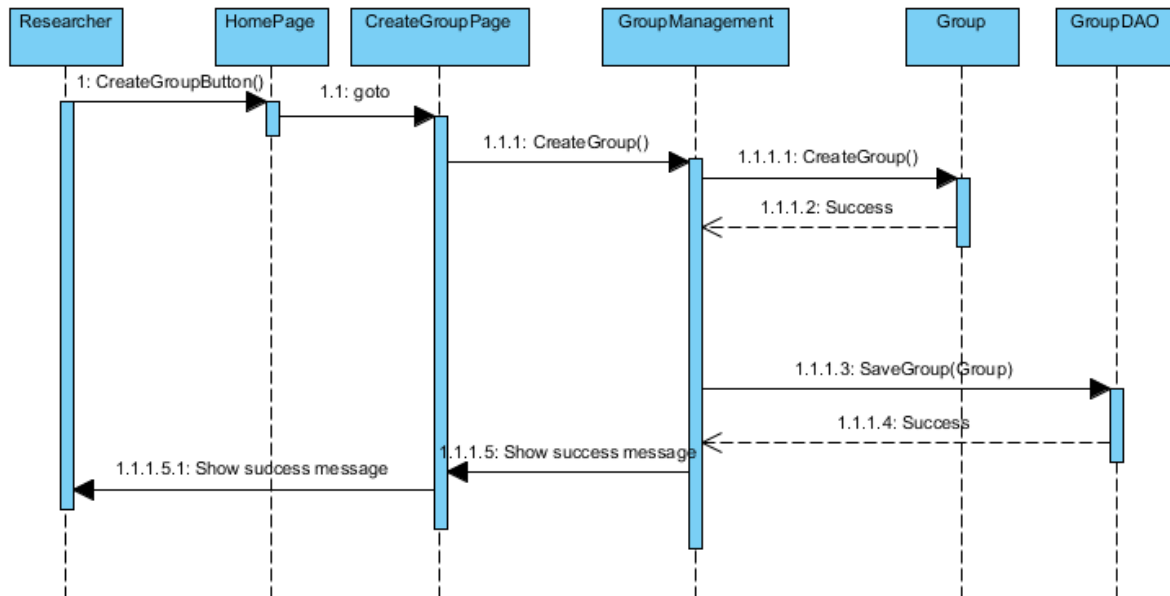
10. will send mail





CS251: Phase 2 –Project: <FCI> Software Design Specification

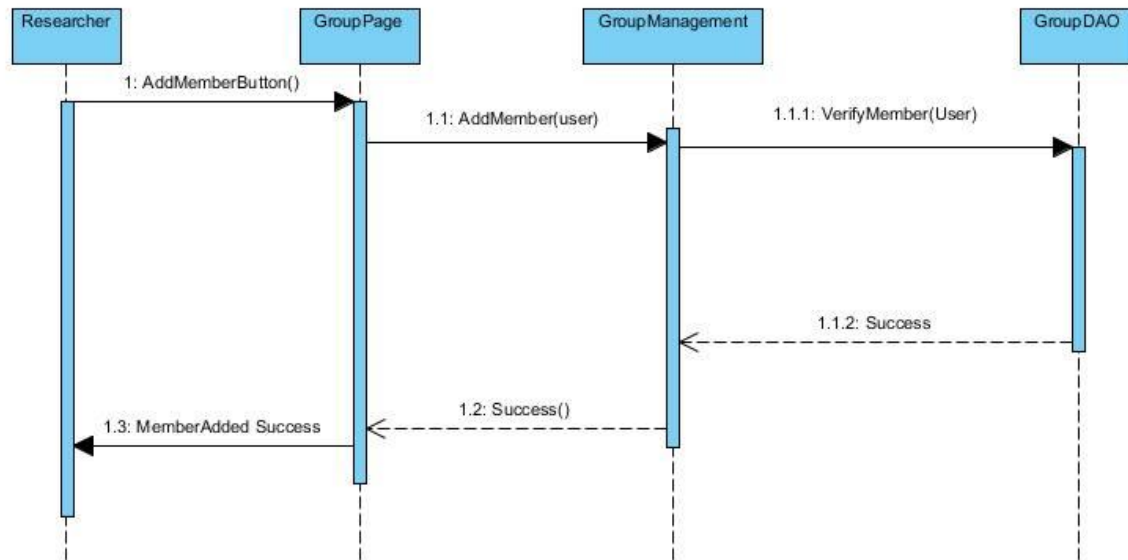
11. Create research group





CS251: Phase 2 – Project: <FCI> Software Design Specification

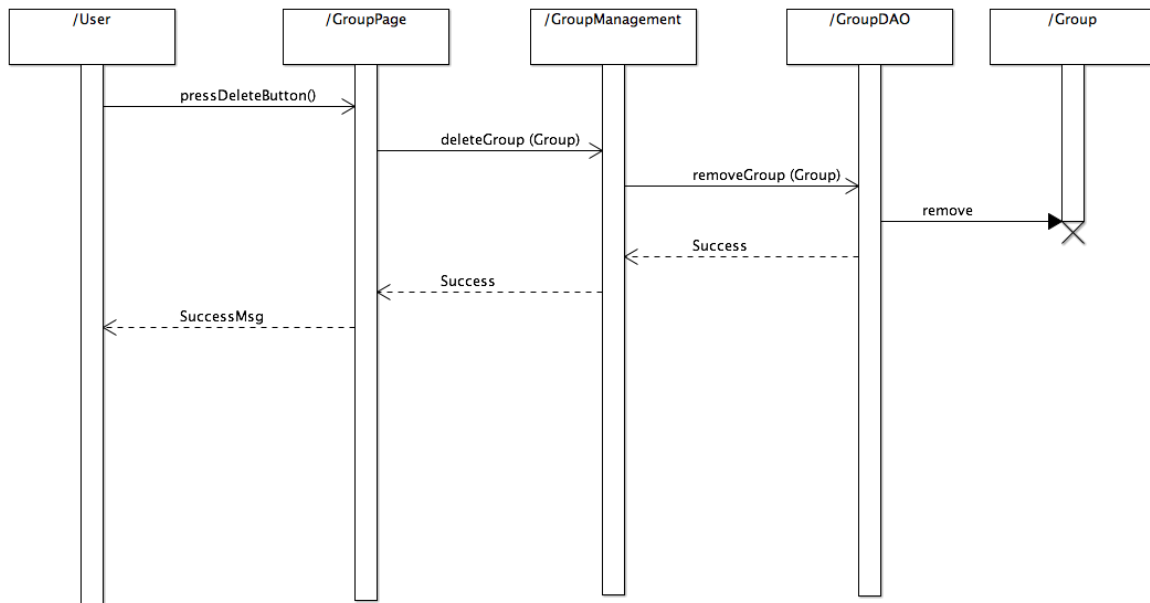
12. Add member





CS251: Phase 2 –Project: <FCI> Software Design Specification

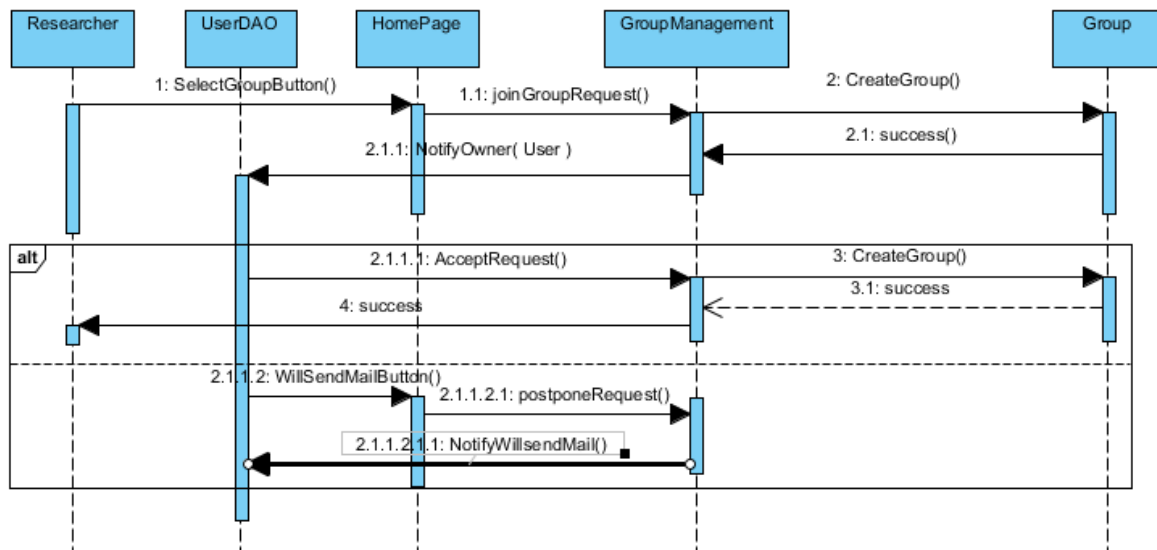
13. Delete group



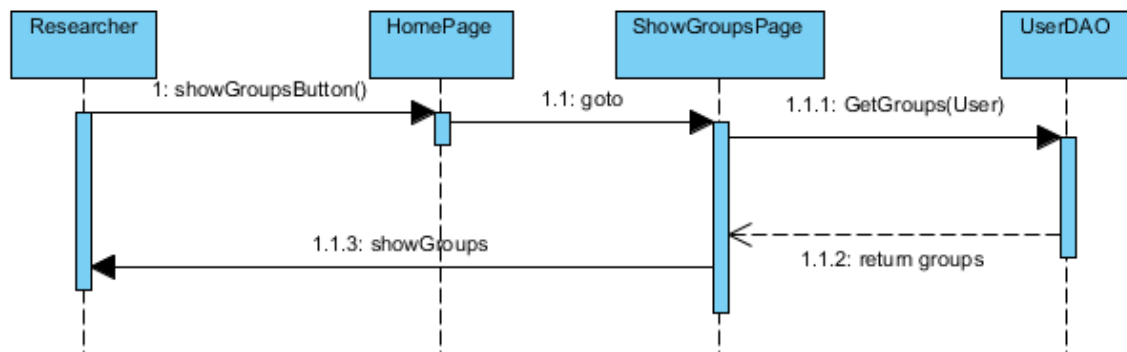


CS251: Phase 2 –Project: <FCI> Software Design Specification

16. Send request to join group



18. Show groups





CS251: Phase 2 –Project: <FCI> Software Design Specification

Class Name	Sequence Diagrams	Overall used methods
Login_Page	1,2,3	ViewLoginPage() , LoginButton()
Signup_Page	1	ViewSignupPage()
ResearchPage	7,8	shareResearchButton(), sendRequestButton()
GroupsPage	12,13	deleteButton(), AddMemberButton()
QuestionPage	5,6	ViewQuestionPage(), addTagButton()
HomePage	2,3,4,5,7,9,10,11,16,18	ProfileButton(), LogoutButton(), willSendMailButton(), accept- rejectRequestButton(), createGroupButton(), selectGroupButton(), showGroupsButton()
ProfilePage	4	ViewProfilePage()
Create Group page	11	goTo()
User	1,6,7,8,9,10,12,13	CreateUser()
Research	7	
Question	5	createQuestion()
Group	11, 13, 16	createGroup()
Authentication	1,2,3,4	verifyUserData(),login()
Group Management	11,12,13, 16	createGroup(), deleteGroup(), AddMember(), joinGroupRequest(), acceptRequest(), postponeRequest()
Research Management	7,8,9,10	willSendMail(), shareResearch(), postResearch(), createResearch(), sendRequest(),accept-rejectRequest(), notifyUser()
Question Management	5,6	postQuestion(), addTag()
UserDAO	1,2,3,4	getUser(),saveUser()
ResearchDAO	7	saveResearch()
QuestionDAO	5	saveQuestion()
GroupDAO	11,12,13	saveGroup(Group), verifyMember(User), AddMember(User), removeGroup()



CS251: Phase 2 – Project: <FCI> Software Design Specification

User Interface Design

Screen 1 – Login Screen

FCIResearch Not a member yet? [Sign up](#)

FCI Email

Password

[Log in](#)



CS251: Phase 2 –Project: <FCI> Software Design Specification

Screen 2 – Sign-Up Screen

The sign-up screen for FCIResearch. It features a header with the 'FCIResearch' logo. On the left, there is a placeholder for a profile picture with the text 'upload picture' below it. To the right of the profile picture, there are four input fields labeled 'Write FCI Email', 'Enter Username', 'Enter Password', and 'Add topic'. A green 'Sign up' button is located at the bottom right of the form.

Screen 3 – Post a Question Screen

The 'Post a Question' screen for FCIResearch. It features a header with the 'FCIResearch' logo and a 'Log out' button. Below the header is a navigation bar with links: 'Home', 'Profile', 'Post question' (highlighted), 'Add research', and 'Show Groups'. The main content area contains a 'Title of the question:' label followed by an input field, and a 'Question is:' label followed by a larger input field. At the bottom, there are three green buttons: 'Public', 'Add Topic', and 'Post the question'.



CS251: Phase 2 –Project: <FCI> Software Design Specification

Screen 4 – AddResearch Screen

FCIResearch [Log out](#)

[Home](#) [Profile](#) [Post question](#) [Add research](#) [Show Groups](#)

Title of the research:

Description of it:

[Publish](#)

Screen 5 – CreateGroup Screen

FCIResearch [Create group](#)

[Create group](#)

Group name

Group Description

[Create group](#)



CS251: Phase 2 –Project: <FCI> Software Design Specification

Screen 6 – Profile Screen

FCIResearch [Log out](#)

[Home](#) [Profile](#) [Post question](#) [Add research](#) [Show Groups](#)



Username:
#####

Number of posted researchs: ##

Number of questions asked: ##

Number of current groups: ##

Current topics of intrest:


#####

[Want to edit your profile?](#) [Edit profile](#)

Screen 7 – EditProfileInterface

FCIResearch [Log out](#)

[Edit profile](#)


upload picture

change username

change password

Add topic

Confirm password

[Save changes](#)



CS251: Phase 2 –Project: <FCI> Software Design Specification

Screen 8 – HomePage Screen





CS251: Phase 2 –Project: <FCI> Software Design Specification

Ownership Report

Item	Owners
Document Purpose and Audience	<i>Yasmin Ehab</i>
System Decomposition	<i>Ziad Mohamed</i>
Class diagram	<i>Heba , Sarah</i>
Sequence diagrams	<i>Heba , Sarah, Ziad</i>
Physical Entity-Relationship	<i>Heba Khazbak</i>
User Interface Design	<i>Yasmin Ehab</i>