Project Part 2 - GROUP

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• Title: ChatApp

Project Summary: A java-based messaging application which implements
 Object-oriented concepts and includes basic functionalities. The system is based on a
 client-server model in which multiple clients (contacts wishing to initiate a chat with other
 contacts) can request access through the server.

• Requirements

Business Requirements				
ID	Requirement	Topic Area	Actor	Priority
BR - 01	A username must be a gmail.com or colorado.edu email address for registration	Authentication	All	Critical
BR - 02	A password must contain at least 8 characters	Authentication	All	Critical
BR - 03	A password must contain at least one lowercase letter, one uppercase letter, one digit, and one special character	Authentication	All	Critical

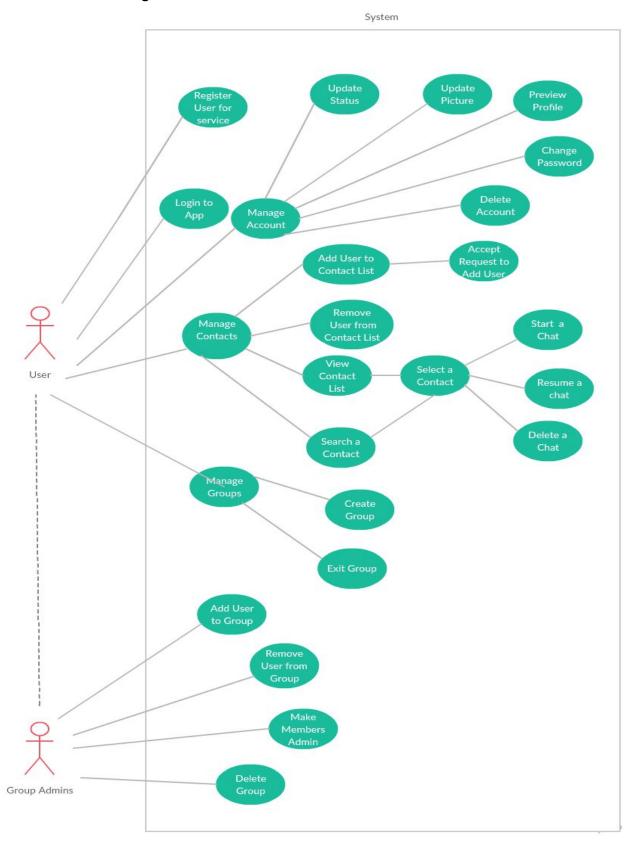
User Requirements				
ID	Requirement	Topic Area	Actor	Priority
US – 01	As a user, I should be able	Authentication	User	Critical

	to register for the service			
US - 02	As a user who has registered, I should be able to login to the system	Authentication	User	Critical
US – 03	As a user, I should be able to change my display picture	Profile Management	User	Critical
US - 04	As a user, I should be able to update my status	Profile Management	User	High
US – 05	As a user, I should be able to view my profile	Profile Management	User	High
US – 06	As a user, I should be able to delete my account	Profile Management	User	Critical
US – 07	As a user, I should be able to add a new contact to my contact list	Contact Management	User	High
US – 08	As a user, I should be able to remove an existing contact from my contact list	Contact Management	User	High
US - 09	As a user, I should be able to accept a request to add a contact	Contact Management	User	High
US - 10	As a user, I should be able to view my contact list	Contact Management	User	High
US - 11	As a user, I should be able to select a contact from my contact list	Contact Management	User	High
US - 12	As a user, I should be able to search a contact from my contact list	Contact Management	User	Medium
US – 13	As a user, I should be able to start a chat with a	Messaging	User	High

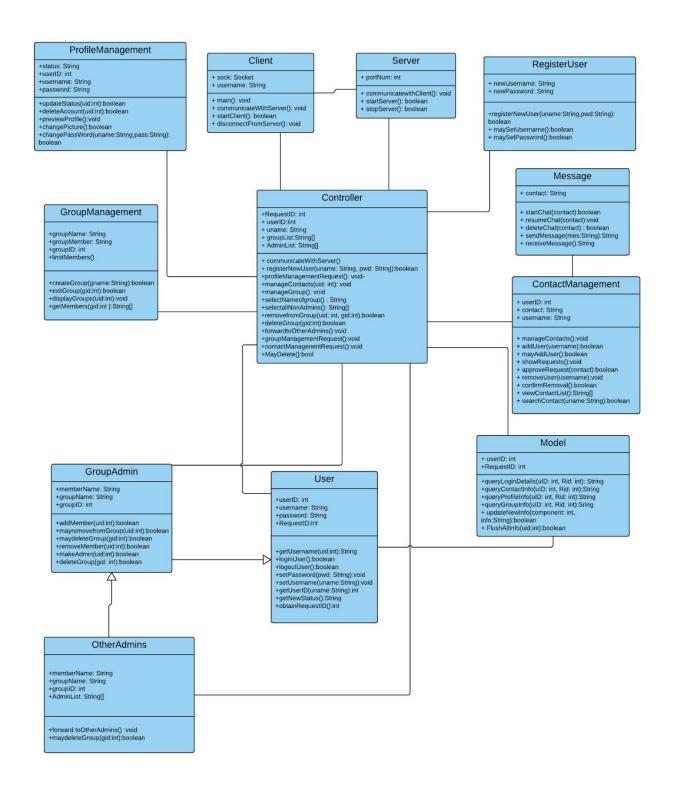
	selected contact			
US - 14	As a user, I should be able to resume a chat with a selected contact when I have already started a chat	Messaging	User	High
US – 15	As a user, I should be able to delete a chat with a selected contact	Messaging	User	High
US – 16	As a user, I should be able to create a new group	Group Management	User	High
US – 17	As a user who is a member of a group, I should be able to exit a group	Group Management	User	High
US – 18	As a group administrator, I should be able to add users to a group	Group Management	Group admin	High
US – 19	As a group administrator, I should be remove an user from a group	Group Management	Group admin	High
US – 20	As a group administrator, I should be able to make a group member an administrator	Group Management	Group admin	High
US - 21	As a group administrator, I should be able to delete an existing group	Group Management	Group Admin	Critical
US - 22	As a user, I should be able to change my password	Profile Management	User	Critical
US - 23	As a user, I should be able to log out	Authentication	User	Critical

Non-Functional Requirements				
NFR - 01	A login username cannot be identical to another login username	Reliability	User	Critical
NFR – 02	A group should have at least 3 members to be created	Reliability	Group Admin	Critical
NFR - 03	All messages in a group should be backed up at 12:00 midnight	Reliability		Critical

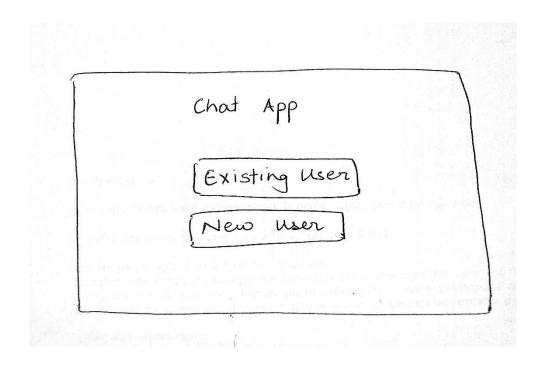
Use Case Diagram



Class Diagram



UI Mockups



Userna	me?	
passoo	rd:	
ı	[Submit]	
	120011	

New User

d	email ID:
	username:
	password:
	confirm pass word:

Manage Profile

Manage Groups

Manage Contacts

Logout

Manage Profile

Update Statue)

Update Picture

View Profile

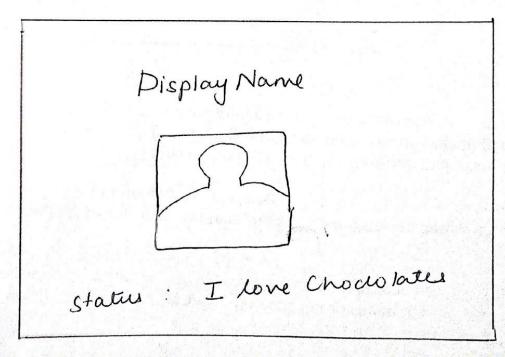
Delete Account

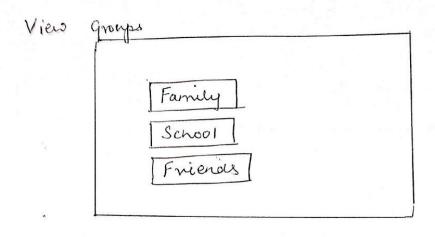
Updale Stalus

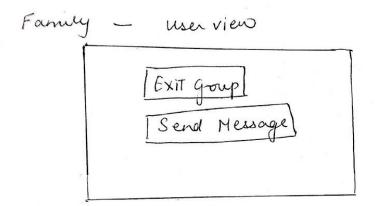
Sente	r new Status:	
	A STATE OF THE STA	
	Source	

(Borowse) // link

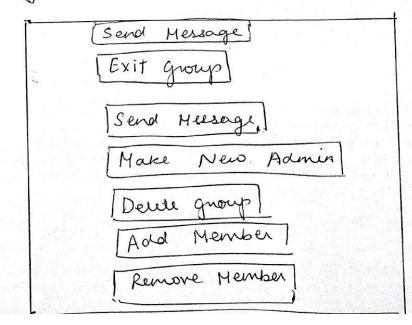
View Profile







Family - Admin View



Manage Contacts

(Add User)

Remove User

Accept Requests

View Contact List

Search a Contact

(G10 Back)

Add User

Username of: [abcdefgh @gmail.com]

(Add) (GO Back)

Add User

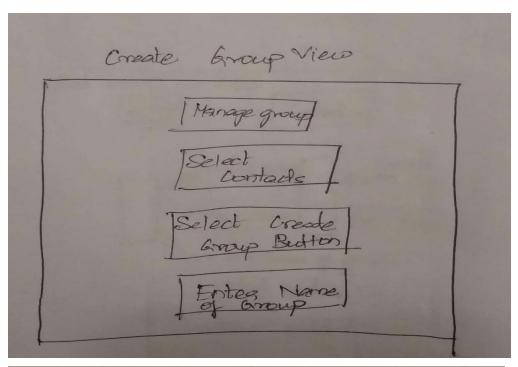
User abcdefgh@gmail.com has been added to your contact list.

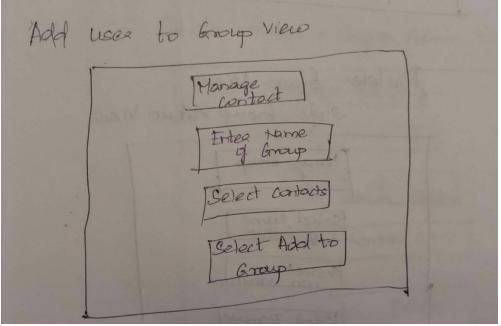
. T	Add User
Username of: New User	71 yz 124567 @ yahoo.com
2	(Add) (G10 Back)
	Add User
Usename	not recognized.
<u> </u>	Permove User
John	
Michae	
Matthe	
Rem	ove G10 Back
Re	move User
Asie you sus	se you want to remove "Micheal" contact list?
	és No
	116.
Ren	nove User

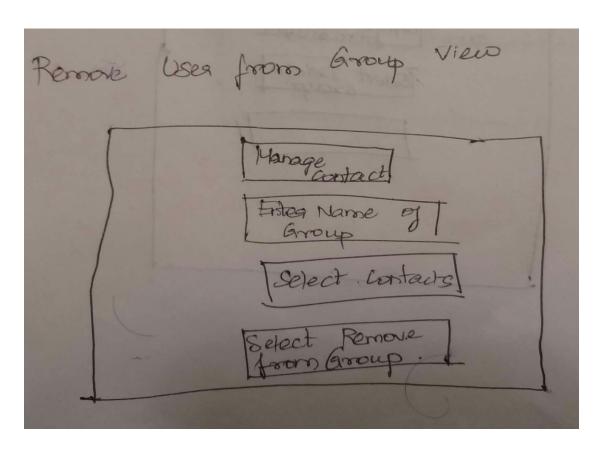
Approve Requests Cohen Edmund Richard Miller Approve Reject Approve Requests Request approved and Edmund Cohen added. View Contact List Aditya Swapnil Mayank Kushal Go Back Select Aditya Go Back Stort a Chat Swapnil Delete Chat Resume Chat

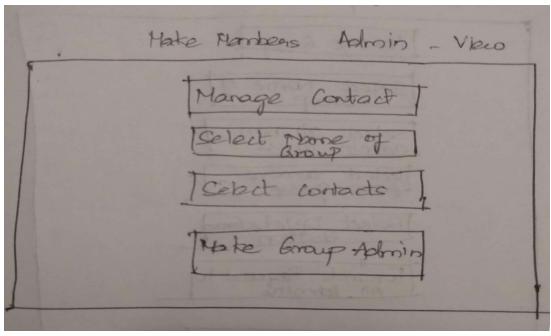
Aditya Type message: (Hello!) Aditya Hello! < > Hi there! How're you been? Type message: (Swapnil Hi!← > Good to hear from you! Delete this Chat Swapnil (Go Back)

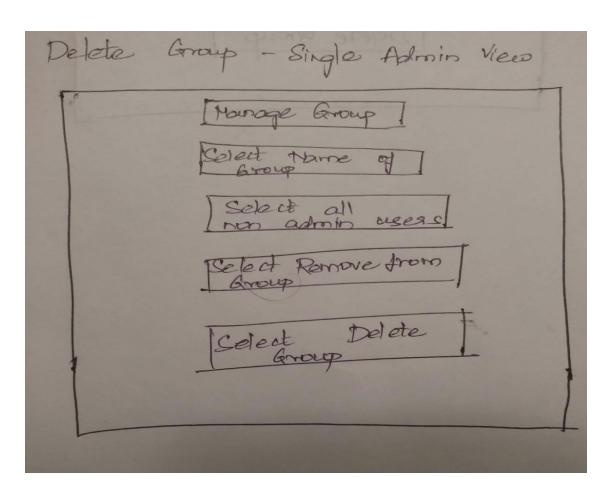
Search a Contact
Name: Raghu
Search Goo Back
Contact List
Raghu
Rahul
Raktim
Select Contact G10 Back
Search a Contact
Name: Aviraj
(Search) (Go Back)
Search a Contact
Contact does not enist!
CONNECT ONCE THE STATE .



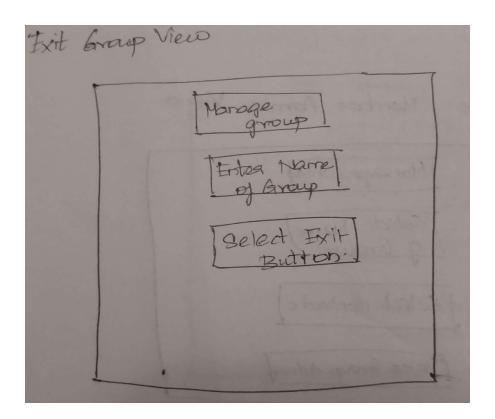








Delete	Group. Multiple Admin View
	[Monage Group]
	Select Name of Select all non I select remove I brown group [Select Delete Grand Button Forwards Request to All Admin.
	Delete Group



• Data Storage

We will be using MySQL Database Management System to store and retreive messages. The Database will also contain entries corresponding to each user such as username, password, emailID, contactlist and grouplist.