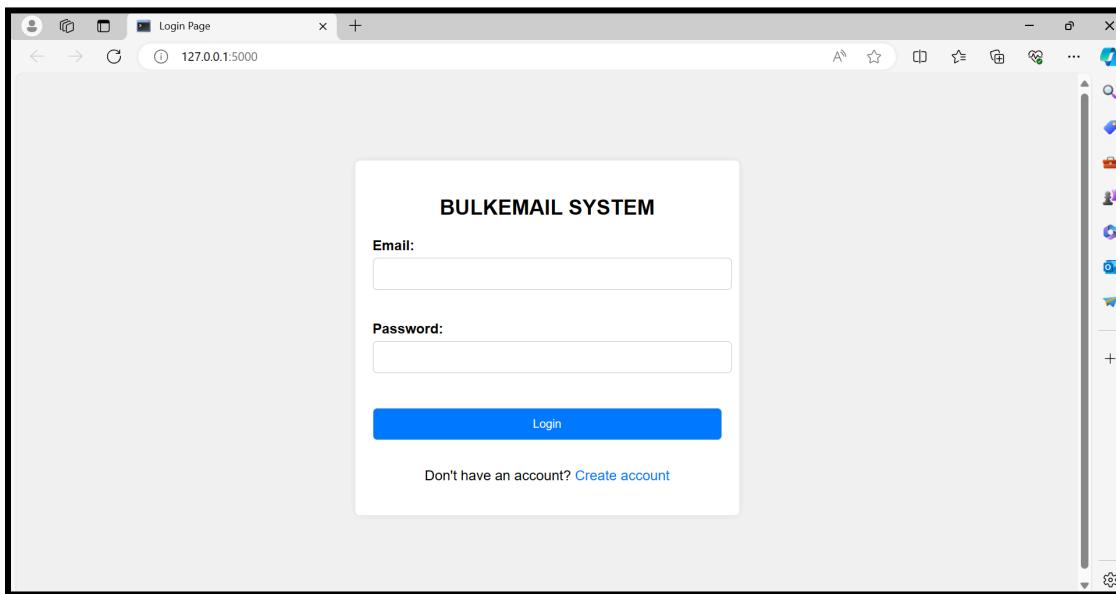


Assignment 3

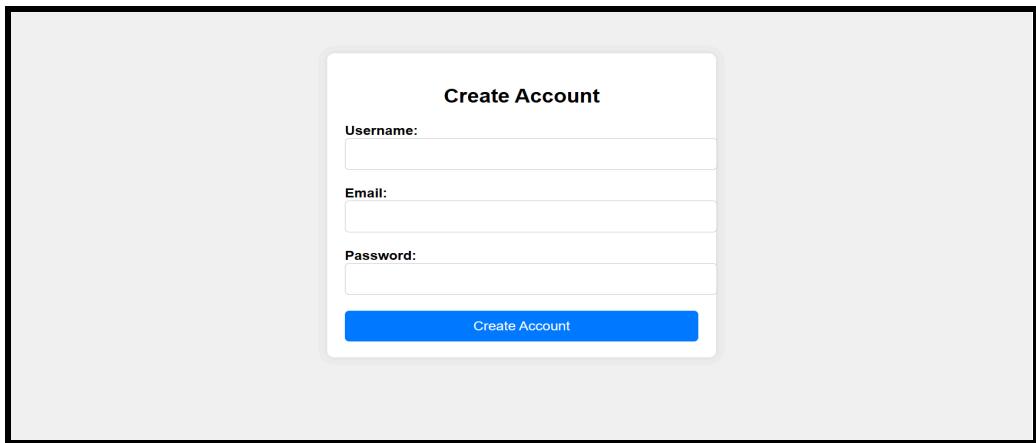
Responsibility of G1 and G2:

Part(a):

- 1) When we first visit the web page, a login page is opened. If a user is visiting the web page for the first time, he or she has to create an account. It can be done by clicking on the ‘Create account’ option. If the user already has an account, he or she can proceed to login. For logging in, an email ID as well as a password should be provided.

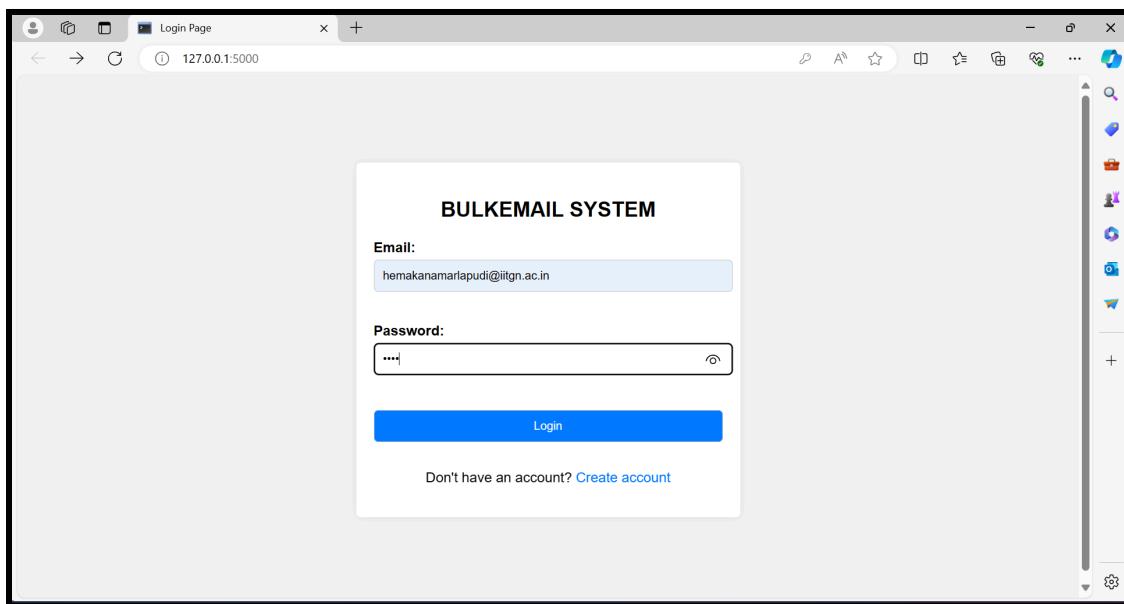


- 2) When a user selects the ‘Create account’ option, the following page will open. For creating an account, Username, email address and password should be provided. After creating the account, the user will be redirected to the login page.

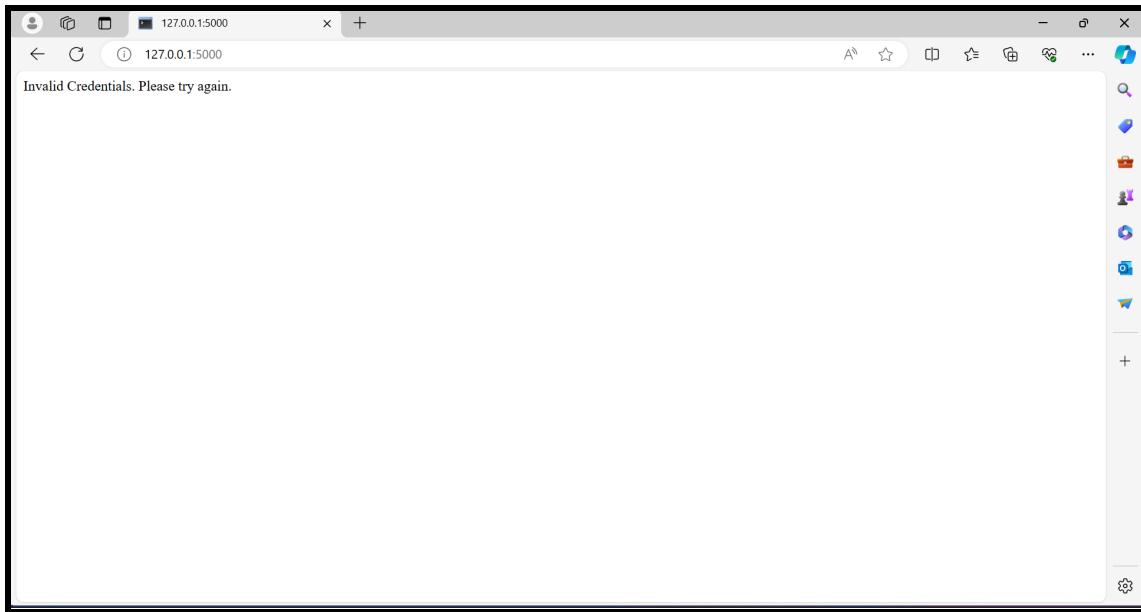


A screenshot of a web-based account creation interface. The title "Create Account" is centered at the top. Below it are three input fields: "Username:", "Email:", and "Password:". Each field has a corresponding placeholder text above it. A blue "Create Account" button is located at the bottom right of the form area.

- 3) The user should login to the account by providing the details as follows.



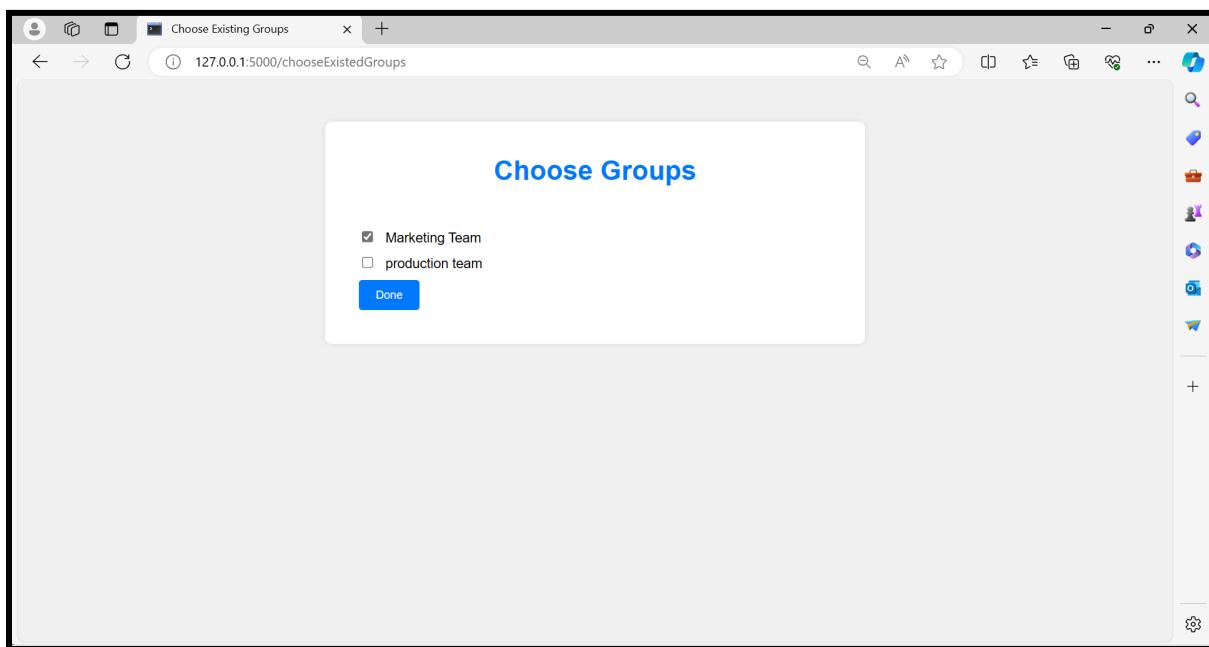
- 4) If the user provides an incorrect email address or password, an interface will open showing the message that the password or email address is incorrect.



- 5) After logging in, the user will be directed to the home page of the web app.
- From address: It shows the email address of the user by which he or she has logged in to the web page.
 - To address: The email addresses of the recipient or the group which are selected by the user to receive the mail are displayed here. Email can be sent to a single recipient, more than one recipient or a group of people. A group will have its own email address.
 - Subject: User can write the subject of the email to be sent.
 - Select Template: User has to choose the existing templates for writing the email.
 - Content: User can add his or her own content after choosing the template.
 - Send: After writing the email content, the user has to click on the send button to send the email to all chosen recipients and groups.

The screenshot shows a web-based bulk email application titled "Bulk Email". At the top, there are several navigation buttons: "Choose Group", "Choose Recipient list", "Sent Mails", "See Groups", and "See Recipient List". Below these, the "From address:" field contains "hemakanamarapudi@iitgn.ac.in". The "To address:" field is empty. The "Subject:" field is also empty. The "Select Template:" dropdown menu shows "Select your template". The "Content:" area has the placeholder "Write your content here.". A blue "Send" button is located at the bottom left of the form.

- 6) To add the recipients in 'To address', the user has to choose the recipients from his or her recipient list or the group.
- Choose group: For sending an email to a group, we click on the 'Choose Group' button. By clicking on the button, the user will see the following page. User has to select the groups and click on the 'Done' button. After choosing the groups, the group email addresses will be displayed in the 'To address' box.



Bulk Email

Logout

Choose Group Choose Recipient list Sent Mails See Groups See Recipient List

From address:
hemakanamarlapudi@iitgn.ac.in

To address:
marketing@gmail.com

Subject:

Select Template:
Select your template

Content:

Send

- Choose Recipient List: If a user has to choose an individual, he or she has to select the receiver from the recipient list. The following page will be displayed when a user clicks on the ‘Choose Recipient list’ button. The user has to select the recipients from the list and click on ‘Done’. After doing this, the chosen recipients will be shown in the ‘To address’ box.

Choose Recipients

- John Doe
- Jane Smith
- Alex Johnson
- hey what
- divya
- Michael Lee
- pani
- janu
- pani
- gi
- hey
- welcome

Done

Bulk Email

Logout

Choose Group Choose Recipient list Sent Mails See Groups See Recipient List

From address:
hemakanamarlapudi@iitgn.ac.in

To address:
marketing@gmail.com recipient3@example.com recipient5@example.com recipient1@example.com recipient2@example.com

Subject:

Select Template:

Content:

Send

7) While choosing the template, the user has two options.

- Same email: The content added to the content box will be the same for all the recipients and groups. All recipients can see who has received the email.
- Individual recipients: The email will be sent to the recipients individually. Recipients can not see other receivers.

Bulk Email

Logout

Choose Group Choose Recipient list Sent Mails See Groups See Recipient List

From address:
hemakanamarlapudi@iitgn.ac.in

To address:
marketing@gmail.com recipient3@example.com recipient5@example.com recipient1@example.com recipient2@example.com

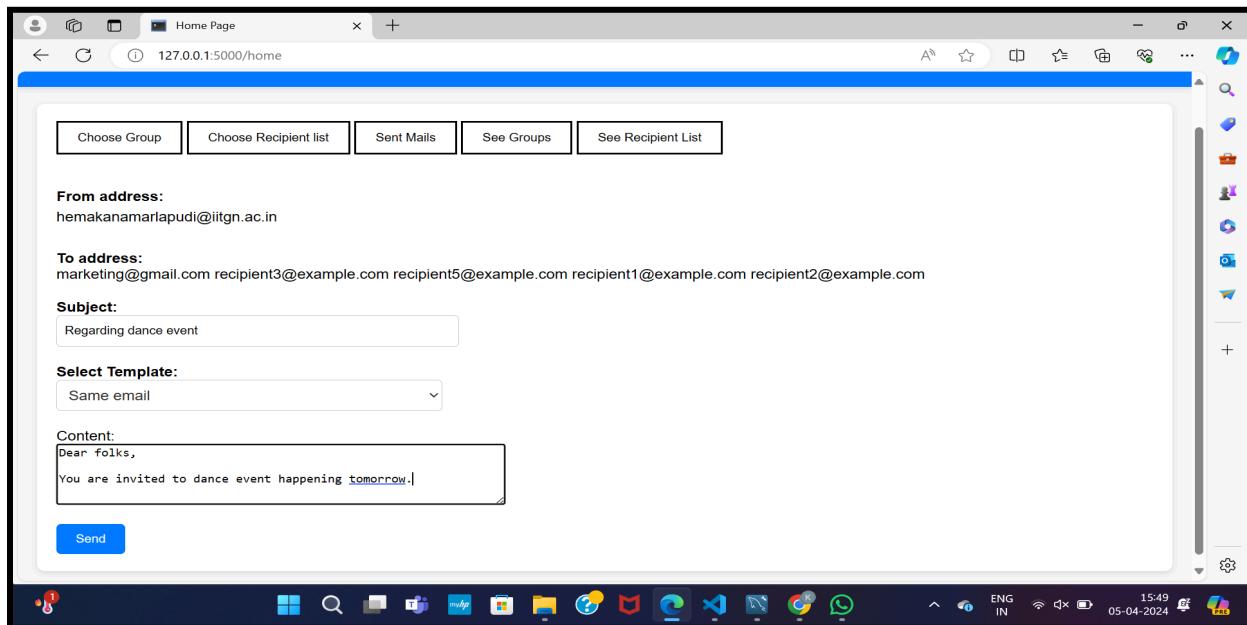
Subject:

Select Template:

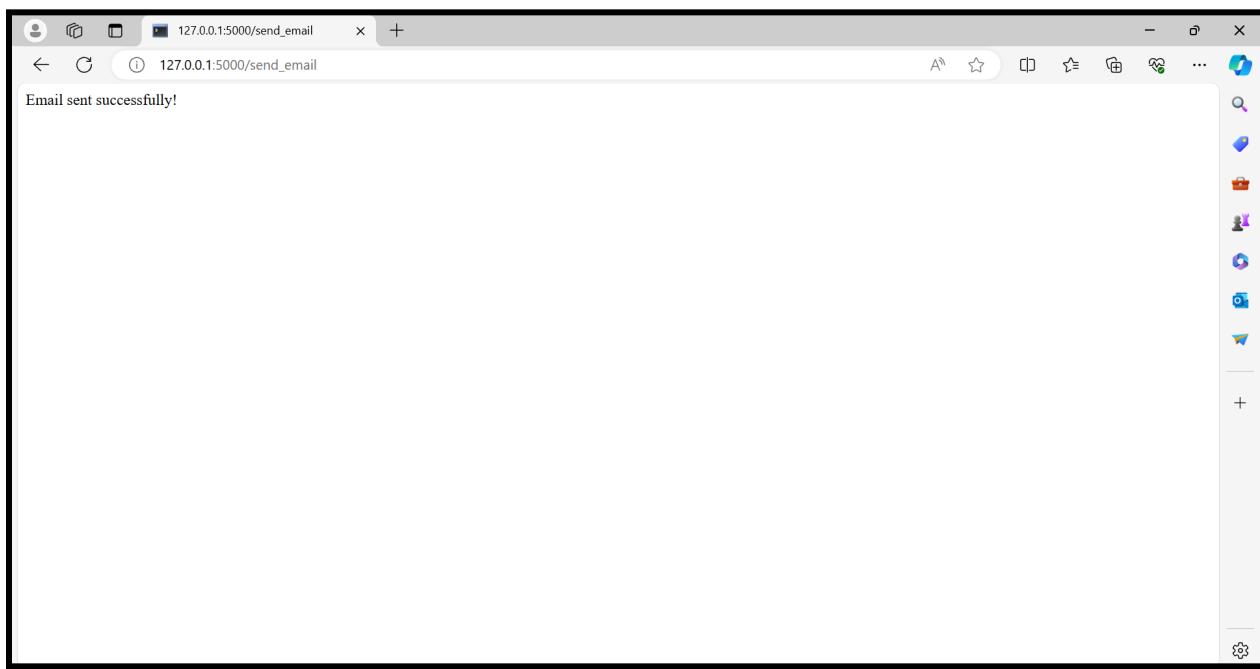
Same email
Individual email

Send

8) As seen in the following page, the user has chosen ‘Same Mails’ template so all the recipients will receive the email with the same content.



- 9) After clicking on the 'Send' button, the email will be sent to respective recipients and a message will be shown on the web page as follows.



- 10) When a user clicks on the 'Sent Mails' button, the following page shows up. Here the user can see the emails he or she has sent with the email address of the receiver, the subject of the sent email, date and time at which the email was sent.

From Address	To Addresses	Subject	Date	Status
hemakanamarlapudi@iitgn.ac.in	None, None	helo	2024-04-04 10:28:10	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient1@example.com (Individual)	helo	2024-04-04 19:14:34	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), None	helo	2024-04-04 19:38:17	delivered
hemakanamarlapudi@iitgn.ac.in	sales@gmail.com (Group), recipient3@example.com (Individual)	hrlo	2024-04-04 20:03:48	delivered
hemakanamarlapudi@iitgn.ac.in	sales@gmail.com (Group), janu@gmail.com (Individual);pani@gmail.com (Individual);recipient5@example.com (Individual)	hi	2024-04-04 20:05:50	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), None	helo	2024-04-04 21:52:31	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), None	helo	2024-04-04 21:53:09	delivered
hemakanamarlapudi@iitgn.ac.in	None, None	helo	2024-04-04 21:53:58	delivered
hemakanamarlapudi@iitgn.ac.in	None, None	helo	2024-04-04 21:54:56	delivered

- 11) The email that the user has written can be seen in the ‘Sent Mails’ page and when you click on that row it will display its content.

hemakanamarlapudi@iitgn.ac.in	None, None	hi	22:08:02	delivered
hemakanamarlapudi@iitgn.ac.in	None, divyamadineni@iitgn.ac.in (Individual);recipient5@example.com (Individual)	helo	2024-04-04 22:08:58	delivered
hemakanamarlapudi@iitgn.ac.in	None, divyamadineni@iitgn.ac.in (Individual);recipient5@example.com (Individual)	helo	2024-04-04 22:18:11	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient3@example.com (Individual);recipient4@example.com (Individual);recipient5@example.com (Individual)	hello	2024-04-04 23:19:52	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient3@example.com (Individual);recipient4@example.com (Individual);recipient5@example.com (Individual)	hey	2024-04-04 23:20:46	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient3@example.com (Individual);recipient4@example.com (Individual);recipient5@example.com (Individual)	hey	2024-04-04 23:21:45	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient5@example.com (Individual)	hi	2024-04-05 03:27:36	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient4@example.com (Individual)	helo	2024-04-05 03:35:07	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient1@example.com (Individual);recipient2@example.com (Individual)	hrlo	2024-04-05 11:02:47	delivered
hemakanamarlapudi@iitgn.ac.in	sales@gmail.com (Group), None	hi	2024-04-05 11:04:16	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), recipient1@example.com (Individual);recipient2@example.com (Individual);recipient3@example.com (Individual)	Regarding dance event	2024-04-05 14:33:00	delivered

		hi	22:08:02	delivered
Dera {{name}}	divyamadineni@iitgn.ac.in (Individual);recipient5@example.com (Individual)	hel0	2024-04-04 22:08:58	delivered
	divyamadineni@iitgn.ac.in (Individual);recipient5@example.com (Individual)	hel0	2024-04-04 22:18:11	delivered
	example.com (Individual);recipient4@example.com 5@example.com (Individual)	hello	2024-04-04 23:19:52	delivered
	example.com (Individual);recipient4@example.com 5@example.com (Individual)	hey	2024-04-04 23:20:46	delivered
	example.com (Individual);recipient4@example.com 5@example.com (Individual)	hey	2024-04-04 23:21:45	delivered
	example.com (Individual)	hi	2024-04-05 03:27:36	delivered
	example.com (Individual)	hel0	2024-04-05 03:35:07	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient1@example.com (Individual);recipient2@example.com (Individual)	hrlo	2024-04-05 11:02:47	delivered
hemakanamarlapudi@iitgn.ac.in	sales@gmail.com (Group), None	hi	2024-04-05 11:04:16	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), recipient1@example.com (Individual);recipient2@example.com (Individual);recipient3@example.com (Individual)	Regarding dance event	2024-04-05 14:33:00	delivered

- 12) Following image shows that the users sent box. The receiver can also see other recipients as user chose the ‘Same Template’.

Compose

Inbox 11,177

Starred

Snoozed

Sent 10

Drafts

More

Labels

Certificates

Regarding dance event Inbox

hemakanamarlapudi@iitgn.ac.in to recipient1, divyamadineni, recipient3, bye, recipient4, hi, recipient2 2:33PM (5 minutes ago)

from: hemakanamarlapudi@iitgn.ac.in
to: recipient1@example.com, divyamadineni@iitgn.ac.in, recipient3@example.com, bye@gmail.com, recipient4@example.com, hi@gmail.com, recipient2@example.com
date: Apr 5, 2024, 2:33 PM
subject: Regarding dance event
mailed-by: iitgn.ac.in

Address not found

- 13) As we can see in the following image, the user has chosen ‘Individual template’. So, the email will be sent individually to the recipient. The {{name}} will be replaced by the individual's name.

Home Page

127.0.0.1:5000/home

Choose File(s)

Choose Group Choose Recipient list Sent Mails See Groups See Recipient List

From address:
hemakanamarlapudi@iitgn.ac.in

To address:
marketing@gmail.com recipient1@example.com recipient3@example.com recipient2@example.com

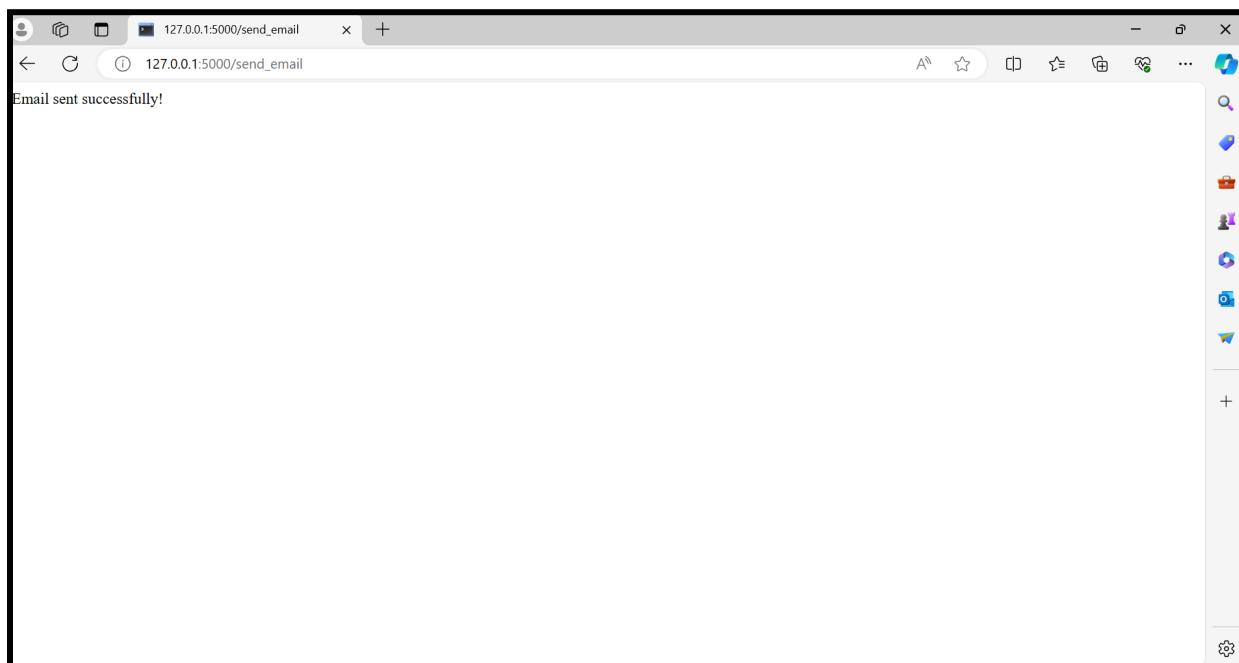
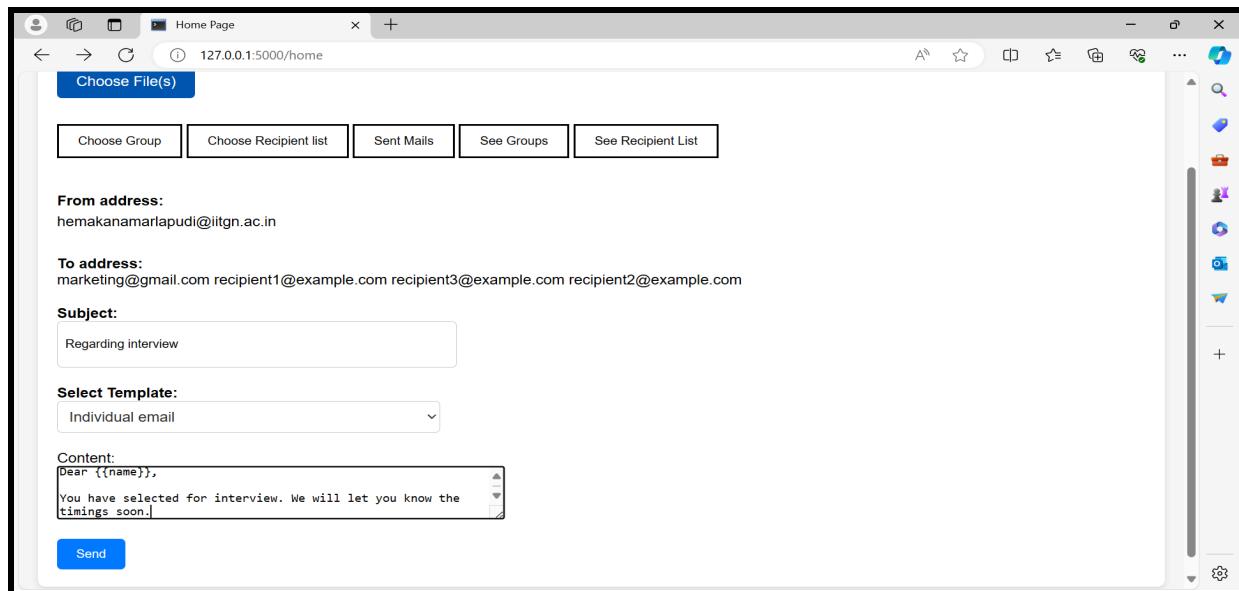
Subject:
Regarding interview

Select Template:
Individual email

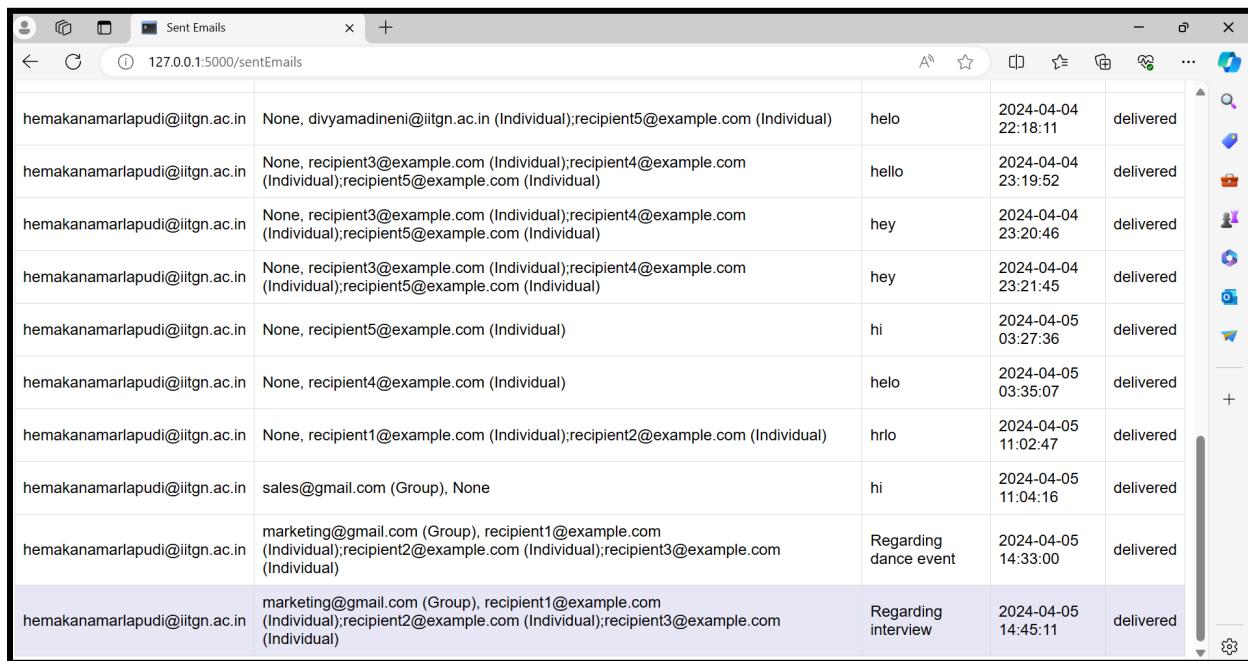
Content:

```
Dear {{name}},  
You have selected for interview. We will let you know the  
timings soon.
```

Send



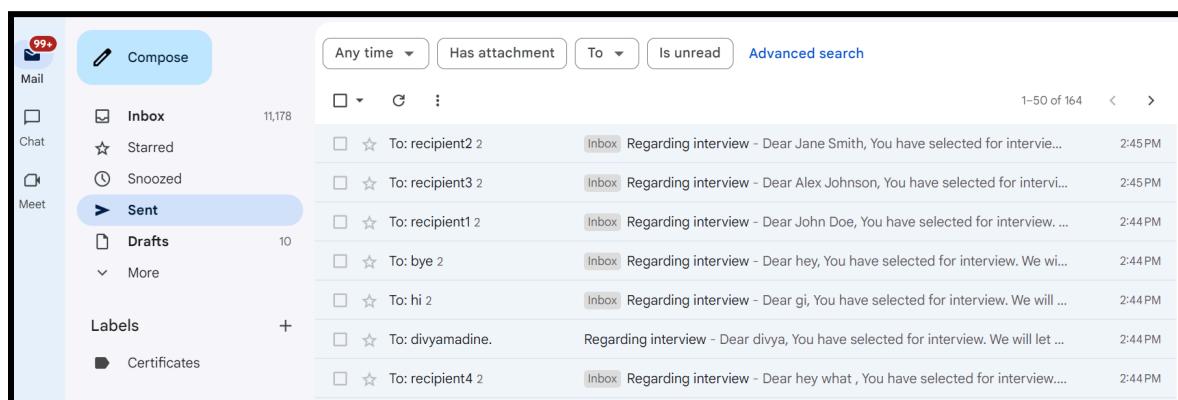
14) The user can see the sent emails in ‘Sent Mails’.



A screenshot of a web-based email application interface titled "Sent Emails". The URL in the address bar is "127.0.0.1:5000/sentEmails". The main content is a table listing ten sent emails. The columns are: Sender Email, Recipients, Subject, Date, and Status. The status column shows all entries as "delivered".

hemakanamarlapudi@iitgn.ac.in	None, divyamadineni@iitgn.ac.in (Individual);recipient5@example.com (Individual)	hello	2024-04-04 22:18:11	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient3@example.com (Individual);recipient4@example.com (Individual);recipient5@example.com (Individual)	hello	2024-04-04 23:19:52	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient3@example.com (Individual);recipient4@example.com (Individual);recipient5@example.com (Individual)	hey	2024-04-04 23:20:46	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient3@example.com (Individual);recipient4@example.com (Individual);recipient5@example.com (Individual)	hey	2024-04-04 23:21:45	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient5@example.com (Individual)	hi	2024-04-05 03:27:36	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient4@example.com (Individual)	hello	2024-04-05 03:35:07	delivered
hemakanamarlapudi@iitgn.ac.in	None, recipient1@example.com (Individual);recipient2@example.com (Individual)	hrlo	2024-04-05 11:02:47	delivered
hemakanamarlapudi@iitgn.ac.in	sales@gmail.com (Group), None	hi	2024-04-05 11:04:16	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), recipient1@example.com (Individual);recipient2@example.com (Individual);recipient3@example.com (Individual)	Regarding dance event	2024-04-05 14:33:00	delivered
hemakanamarlapudi@iitgn.ac.in	marketing@gmail.com (Group), recipient1@example.com (Individual);recipient2@example.com (Individual);recipient3@example.com (Individual)	Regarding interview	2024-04-05 14:45:11	delivered

15) We can see that the email has been sent individually to the receivers recipient1, recipient2, and recipient3, and the respective names of the recipients replace the {{name}}.



A screenshot of a Gmail-like interface. The left sidebar shows navigation options: Mail (with 99+ new messages), Chat, Meet, and Labels (with Certificates). The "Sent" option is selected and highlighted in blue. The main area displays a list of sent emails. The search bar at the top includes filters for "Any time", "Has attachment", "To", "Is unread", and "Advanced search". The results show 1-50 of 164 emails. Each email entry includes the recipient, subject, date, and a snippet of the message content.

Recipient	Date	Subject
To: recipient2 2	2:45PM	Regarding interview - Dear Jane Smith, You have selected for interview...
To: recipient3 2	2:45PM	Regarding interview - Dear Alex Johnson, You have selected for interview...
To: recipient1 2	2:44PM	Regarding interview - Dear John Doe, You have selected for interview. ...
To: bye 2	2:44PM	Regarding interview - Dear hey, You have selected for interview. We wi...
To: hi 2	2:44PM	Regarding interview - Dear gi, You have selected for interview. We will ...
To: divyamadine.	2:44PM	Regarding interview - Dear divya, You have selected for interview. We will let ...
To: recipient4 2	2:44PM	Regarding interview - Dear hey what , You have selected for interview....

Populating tables:

Populating recipient table:

<input type="checkbox"/>	17	recipient7@example.com	Jane Smith	F	XYZ Corporation	28
<input type="checkbox"/>	18	recipient8@example.com	Alex Johnson	M	123 Industries	42
<input type="checkbox"/>	19	recipient9@example.com	Emily Brown	F	Tech Solutions	30
<input type="checkbox"/>	20	recipient10@example.com	Michael Lee	M	None	45
<input type="checkbox"/>	21	recipient11@example.com	John Doe	M	ABC Company	35
<input type="checkbox"/>	22	recipient12@example.com	Jane Smith	F	XYZ Corporation	28
<input type="checkbox"/>	23	recipient13@example.com	Alex Johnson	M	123 Industries	42
<input type="checkbox"/>	24	recipient14@example.com	Emily Brown	F	Tech Solutions	30
<input type="checkbox"/>	25	recipient15@example.com	Michael Lee	M	None	45

[Delete](#) [Insert](#)

Populating Group table:

Select	Group ID	Group Name
<input type="checkbox"/>	1	marketing team
<input type="checkbox"/>	2	Marketing
<input type="checkbox"/>	3	Female
<input type="checkbox"/>	4	Senior Citizens
<input type="checkbox"/>	5	Sales
<input type="checkbox"/>	6	Male
<input type="checkbox"/>	7	Young Adults
<input type="checkbox"/>	8	Human Resources
<input type="checkbox"/>	9	Other
<input type="checkbox"/>	10	Teenagers
<input type="checkbox"/>	11	Support
<input type="checkbox"/>	12	Marketing
<input type="checkbox"/>	13	Female
<input type="checkbox"/>	14	Senior Citizens
<input type="checkbox"/>	15	Sales

Suppose you need to add, rename or delete the recipient in the existing group or individually for the recipient in the recipient list. In that case, you can do it when you redirect to SeeGroups, SeeRecipients pages and how they will be reflected are shown in the below dynamic operation part.

Part(b)

A) INSERT

1) Inserting recipient in the RecipientList

Before inserting the new recipient.

Recipient_id	Recipient_email	Recipient_name	Gender	Company	Age
8	recipient3@example.com	Alex Johnson	M	123 Industries	42
9	recipient4@example.com	hey what	F	Tech Solutions	30
10	divyamadineni@iitgn.ac.in	divya	F	Tech Solutions	3
11	recipient5@example.com	Michael Lee	M	None	45
12	pani@gmail.com	pani	F	janu	14
13	janu@gmail.com	janu	F	pani	12
20	abc@gmail.com	abc	M	v	10
22	hi@gmail.com	gi	M	h	10
24	welcome@gmail.com	welcome	M	welc	20

[Delete](#) [Insert](#)

```
File Edit View Query Database Server Tools Scripting Help
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
bulkgmail
hema
sakila
studentdb
sys
world
bulkmail_updated*
147
148
149 • select * from user;
150 • select * from recipientlist;
151 • SELECT rl.RecipientEmail_id
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |
Recipient_id RecipientEmail_id User_id Recipient_name Gender Company Age Subscription EmailLog_id
6 recipient1@example.com 1 John Doe M ABC Company 35 NULL NULL
7 recipient12@example.com 1 Jane Smith F XYZ Corporation 28 NULL NULL
8 recipient3@example.com 1 Alex Johnson M 123 Industries 42 NULL NULL
9 recipient4@example.com 1 hey what F Tech Solutions 30 NULL NULL
10 divyamadineni@iitgn.ac.in 1 divya F Tech Solutions 3 NULL NULL
11 recipient5@example.com 1 Michael Lee M NULL 45 NULL NULL
12 pani@gmail.com 1 pani F janu 14 NULL NULL
13 janu@gmail.com 1 janu F pani 12 NULL NULL
20 abc@gmail.com 1 abc M v 10 NULL NULL
22 hi@gmail.com 1 gi M h 10 NULL NULL
24 welcome@gmail.com 1 welcome M welc 20 NULL NULL
NULL NULL NULL NULL NULL NULL NULL NULL
recipientlist 57 x
Output
```

After inserting the new recipient 'arey'.

□	9	recipient4@example.com	hey what	F	Tech Solutions	30		
□	10	divyamadineni@iitgn.ac.in	divya	F	Tech Solutions	3		
□	11	recipient5@example.com	Michael Lee	M	None	45		
□	12	pani@gmail.com	pani	F	janu	14		
□	13	janu@gmail.com	janu	F	pani	12		
□	20	abc@gmail.com	abc	M	v	10		
□	22	hi@gmail.com	gi	M	h	10		
□	24	welcome@gmail.com	welcome	M	welc	20		
□	25	arey@gmail.com	arey	M	hey	10		

[Delete](#) [Insert](#)

Recipient_Id	RecipientEmail_Id	User_Id	Recipient_name	Gender	Company	Age	Subscription	EmailLog_Id
6	recipient1@example.com	1	John Doe	M	ABC Company	35	NULL	NULL
7	recipient2@example.com	1	Jane Smith	F	XYZ Corporation	28	NULL	NULL
8	recipient3@example.com	1	Alex Johnson	M	123 Industries	42	NULL	NULL
9	recipient4@example.com	1	hey what	F	Tech Solutions	30	NULL	NULL
10	divyamadineni@iitgn.ac.in	1	divya	F	Tech Solutions	3	NULL	NULL
11	recipient5@example.com	1	Michael Lee	M	NULL	45	NULL	NULL
12	pani@gmail.com	1	pani	F	janu	14	NULL	NULL
13	janu@gmail.com	1	janu	F	pani	12	NULL	NULL
20	abc@gmail.com	1	abc	M	v	10	NULL	NULL
22	hi@gmail.com	1	gi	M	h	10	NULL	NULL
24	welcome@gmail.com	1	welcome	M	welc	20	NULL	NULL
25	arey@gmail.com	1	arey	M	hey	10	NULL	NULL

2) Inserting group

Before inserting the group name: ‘Group’

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trail2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP

[Delete](#) [Rename](#) [Insert](#)

Result Grid Filter Rows: <input type="text"/> Edit: Export/Import:				
	Group_id	Group_name	Description	group_address
▶	1	Marketing Team	Group for marketing-related recipients	marketing@example.com
	3	Tech Team	Group for technical-related recipients	
	9	MY team	NULL	heLo@gmail.com
	11	ruchahr	trail2	grop@gmail.com
	12	ruchahr	trail2	grop@gmail.com
	15	trial1	let see	abcd@gmail.com
	17	trail2	tara sitara	tara@gmail.com
	39	RN	NULL	RN@gmail.com
*	40	NEWGROUP	NULL	new@gmial.com
	NULL	NULL	NULL	NULL

On clicking on the Insert button, the interface will appear where there is a need to fill the group name and group address.

Insert Group

Group Name:

Group Address:

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trial2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP
<input type="checkbox"/>	42	Group

Result Grid | Filter Rows: Edit: Export/Import:

	Group_id	Group_name	Description	group_address
▶	1	Marketing Team	Group for marketing-related recipients	marketing@example.com
	3	Tech Team	Group for technical-related recipients	
	9	MY team	NULL	helo@gmail.com
	11	ruchahr	trail2	grop@gmail.com
	12	ruchahr	trail2	grop@gmail.com
	15	trial1	let see	abcd@gmail.com
	17	trail2	tara sitara	tara@gmail.com
	39	RN	NULL	RN@gmail.com
	40	NEWGROUP	NULL	new@gmial.com
*	42	Group	NULL	group@gmial.com
	NULL	NULL	NULL	NULL

3) Inserting recipient in a group

Group with ID 42 has no members before inserting a new member.

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trail2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP
<input type="checkbox"/>	42	Group

Select	Recipient ID	Recipient Email	Name	Gender	Age
<input type="button" value="Delete_RL"/>	<input type="button" value="Rename_RL"/>	<input type="button" value="Insert_RL"/>	<input type="button" value="Delete"/>	<input type="button" value="Rename"/>	<input type="button" value="Insert"/>

	Group_id	Recipient_id
▶	39	52
	39	53
*	1	54
*	NULL	NULL

After inserting the new recipient neha in Group.

Insert Recipient

Recipient Email:

Recipient Name:

Gender:

Company:

Age:

Insert Recipient

<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trial2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP
<input type="checkbox"/>	42	Group

Select	Recipient ID	Recipient Email	Name	Gender	Age
<input type="checkbox"/>	56	neha@gmail.com	neha	M	56

Result Grid | Filter Rows:

	Group_id	Recipient_id
▶	39	52
	39	53
	1	54
	42	56
*	NULL	NULL

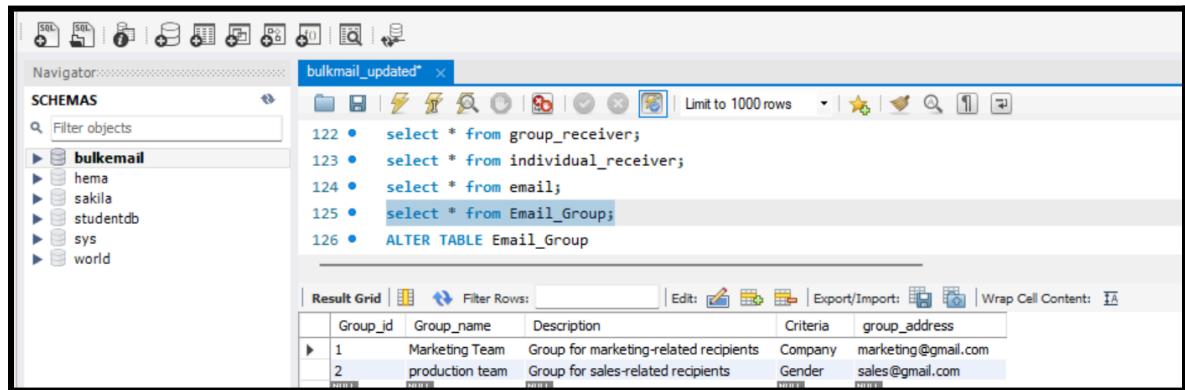
UPDATE:

- 1) Updating the name of the group in see Groups Page.

Following is the list of group names for the respective user. We can see 2 groups on the web page as well as in the database.

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	2	production team

[Delete](#) [Update](#) [Insert](#)



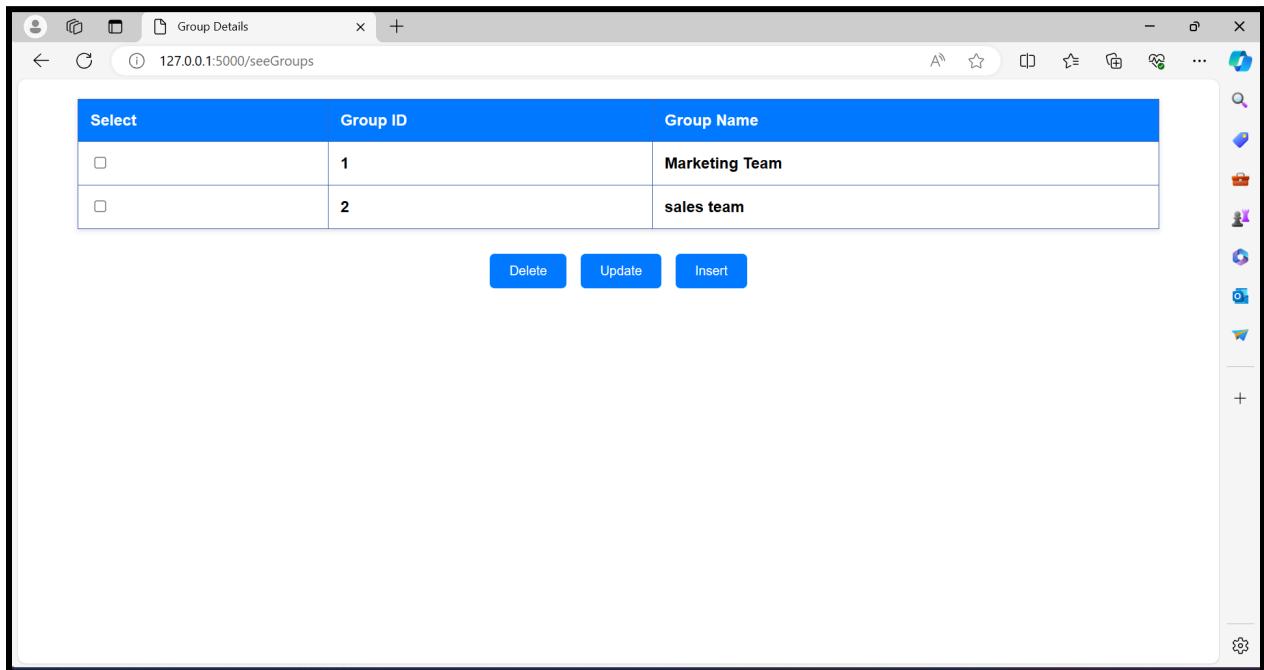
The screenshot shows the MySQL Workbench interface. In the top left, the Navigator pane displays the SCHEMAS section with 'bulkemail' selected. The main area is titled 'bulkmail_updated' and contains the following SQL code:

```
122 •    select * from group_receiver;
123 •    select * from individual_receiver;
124 •    select * from email;
125 •    select * from Email_Group;
126 •    ALTER TABLE Email_Group
```

Below the code, there is a 'Result Grid' tab showing the data from the 'Email_Group' table:

Group_id	Group_name	Description	Criteria	group_address
1	Marketing Team	Group for marketing-related recipients	Company	marketing@gmail.com
2	production team	Group for sales-related recipients	Gender	sales@gmail.com

After updating the name on the web interface, we can see that the name for the group has also changed in the database.



The screenshot shows a web browser window titled 'Group Details' with the URL '127.0.0.1:5000/seeGroups'. The page displays a table with the following data:

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	2	sales team

At the bottom of the table are three buttons: 'Delete', 'Update', and 'Insert'.

The screenshot shows the MySQL Workbench interface. In the top-left corner, the title bar says "MySQL Workbench" and "Local instance MySQL80". Below the title bar is a menu bar with File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The "Query" tab is selected. To the right of the menu is a toolbar with various icons. The main area has a "Navigator" pane on the left showing "Schemas" with "bulkemail" selected. A "Result Grid" pane on the right displays the results of a query. The query itself is as follows:

```

122 • select * from group_receiver;
123 • select * from individual_receiver;
124 • select * from email;
125 • select * from Email_Group;
126 • ALTER TABLE Email_Group

```

The result grid shows two rows of data:

Group_Id	Group_name	Description	Criteria	group_address
1	Marketing Team	Group for marketing-related recipients	Company	marketing@gmail.com
2	sales team	Group for sales-related recipients	Gender	sales@gmail.com
*	HULL	HULL	HULL	HULL

2) Updating the recipient detail belonging to a group.

The name for recipient 58 (Recipient ID) in Tech Team group is ‘neha’ before updating.

The screenshot shows a web browser window titled "Group Details" at the URL "127.0.0.1:5000/seeGroups". The page has a header with various links and a sidebar with icons. The main content area has two tables. The first table is titled "Select" and lists two groups: "1 Marketing Team" and "3 Tech Team". The second table is titled "Recipient ID" and shows a list of recipients with columns for "Recipient ID", "Recipient Email", "Name", "Gender", and "Age". One recipient, with ID 58 and email neha@gmail.com, has the name "neha" listed. At the bottom of this table are buttons for "Delete_RL", "Rename_RL", and "Insert_RL". Below these tables is another table with rows for recipients 9, 11, 12, 15, 17, 39, and 40, and a final row for "NEWGROUP". At the bottom of this section are buttons for "Delete", "Rename", and "Insert". The status bar at the bottom of the browser shows the date and time as "6:30 PM 05-Apr-24".

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	Recipient_id	RecipientEmail_id	User_id	Recipient_name	Gender	Company	Age	Subscrip
32	harsh@gmail.com	2	harsh	M	ocomp	21	NULL	
33	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL	
34	harsh@gmail.com	2	harsh	M	ocomp	21	NULL	
35	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL	
36	harsh@gmail.com	2	harsh	M	ocomp	21	NULL	
37	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL	
40	harsh@gmail.com	2	harsh	M	ocomp	21	NULL	
42	harsh@gmail.com	2	harsh	M	ocomp	21	NULL	
43	ruchika@gmail.com	2	tara	F	dear	20	NULL	
52	rutujakadam@iitgn.ac.in	2	rutu	F	rt	20	NULL	
53	nidhi.iitgandhi@gmail.com	2	nidhi	F	nkk	20	NULL	
54	tara@gmail.com	2	Sitara	F	abfv	24	NULL	
58	neha@gmail.com	2	neha	M	NEHM	56	NULL	
*	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

After updating the recipient name changed to 'hema_neha'.

The screenshot shows a web-based application interface. At the top, there's a navigation bar with links like Gmail, YouTube, Maps, and IIT Home - Select T... Below the navigation, a modal dialog box is open, displaying the message "127.0.0.1:5000 says" and a text input field asking "Enter new name for the recipient:". The input field contains the value "hema_neha". Below the modal, there are two tables. The first table has columns "Select" and "Group ID", with rows for values 1 and 3. The second table has columns "Select", "Recipient ID", "Recipient Email", "Name", "Gender", and "Age", with a single row showing values 58, neha@gmail.com, neha, M, and 56. At the bottom of the page are three buttons: Delete_RL, Rename_RL, and Insert_RL. The main table below the second table has several rows with recipient IDs 9, 11, 12, 15, 17, 39, and 40, and names MY team, ruchahr, ruchahr, trial1, trial2, RN, and NEWGROUP respectively.

Select	Group ID
<input type="checkbox"/>	1
<input type="checkbox"/>	3

Select	Recipient ID	Recipient Email	Name	Gender	Age
<input checked="" type="checkbox"/>	58	neha@gmail.com	neha	M	56

<input type="button" value="Delete_RL"/>	<input type="button" value="Rename_RL"/>	<input type="button" value="Insert_RL"/>
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trial2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP

<input type="button" value="Delete"/>	<input type="button" value="Rename"/>	<input type="button" value="Insert"/>
---------------------------------------	---------------------------------------	---------------------------------------

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team

Select	Recipient ID	Recipient Email	Name	Gender	Age
<input type="checkbox"/>	58	neha@gmail.com	hema_neha	M	56

Delete_RL
Rename_RL
Insert_RL

<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trail2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP

Delete
Rename
Insert

Result Grid		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
Recipient_id	RecipientEmail_id	User_id	Recipient_name	Gender	Company	Age	Subscri		
32	harsh@gmail.com	2	harsh	M	ocomp	21	NULL		
33	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL		
34	harsh@gmail.com	2	harsh	M	ocomp	21	NULL		
35	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL		
36	harsh@gmail.com	2	harsh	M	ocomp	21	NULL		
37	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL		
40	harsh@gmail.com	2	harsh	M	ocomp	21	NULL		
42	harsh@gmail.com	2	harsh	M	ocomp	21	NULL		
43	ruchika@gmail.com	2	tara	F	dear	20	NULL		
52	rutujakadam@iitgn.ac.in	2	rutu	F	rt	20	NULL		
53	nidhi.iitgandhi@gmail.com	2	nidhi	F	nkk	20	NULL		
54	tara@gmail.com	2	Sitara	F	abfv	24	NULL		
58	neha@gmail.com	2	hema_neha	M	NEHM	56	NULL		
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

3) DELETE:

1) Delete recipient in group

Before deleting the recipient, there are 4 recipients in the Marketing Team.

The screenshot shows a web-based application interface. At the top, there are three tabs: "Group Details", "Home Page", and another "Group Details". Below the tabs, the URL bar displays "127.0.0.1:5000/seeGroups". The main content area contains several tables and buttons.

Group Details Table:

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team

Recipient List Table:

Select	Recipient ID	Recipient Email	Name	Gender	Age
<input type="checkbox"/>	9	recipient4@example.com	hey what	F	30
<input type="checkbox"/>	10	divyamadineni@iitgn.ac.in	divya	F	3
<input type="checkbox"/>	22	hi@gmail.com	gi	M	10
<input checked="" type="checkbox"/>	27	hey@gmail.com	hey	F	3

Action Buttons:

- Delete_RL
- Update_RL
- Insert_RL

Group Details Table (Bottom):

Select	Group ID	Group Name
<input type="checkbox"/>	2	sales team

Action Buttons (Bottom):

- Delete
- Update
- Insert

The screenshot shows the MySQL Workbench interface. The left sidebar shows the "Navigator" with "SCHEMAS" expanded to show "bulkemail", "hema", "sakila", "studentdb", "sys", and "world". The main area shows a query editor window titled "bulkmail_updated" with the following content:

```
170
171
172
173
174 • select * from memberof;
```

The results are displayed in a "Result Grid" table:

Group_id	Recipient_id
1	9
1	10
2	11
2	20
1	22
1	27
NULL	NULL

After deleting the recipient with ID 27, we can see that it has disappeared from the interface as well as the database.

Group Details | Home Page | Group Details | Group Details | + | X

127.0.0.1:5000/seeGroups

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team

Select	Recipient ID	Recipient Email	Name	Gender	Age
<input type="checkbox"/>	9	recipient4@example.com	hey what	F	30
<input type="checkbox"/>	10	divyamadineni@iitgn.ac.in	divya	F	3
<input type="checkbox"/>	22	hi@gmail.com	gi	M	10

[Delete_RL](#) [Update_RL](#) [Insert_RL](#)

<input type="checkbox"/>	2	sales team
--------------------------	---	------------

[Delete](#) [Update](#) [Insert](#)

MySQL Workbench Local instance MySQL80

Schemas: bulkemail, hema, sakila, studentdb, sys, world

Query Editor: bulkmail_updated*

```
170
171
172
173
174 • select * from memberof;
```

Result Grid:

Group_id	Recipient_id
1	9
1	10
2	11
2	20
1	22
HULL	HULL

Information: Schema: bulkemail

memberof 65

2) Deleting the group from group list

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trial2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP
<input checked="" type="checkbox"/>	42	Group

[Delete](#) [Rename](#) [Insert](#)

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	3	Tech Team
<input type="checkbox"/>	9	MY team
<input type="checkbox"/>	11	ruchahr
<input type="checkbox"/>	12	ruchahr
<input type="checkbox"/>	15	trial1
<input type="checkbox"/>	17	trial2
<input type="checkbox"/>	39	RN
<input type="checkbox"/>	40	NEWGROUP

[Delete](#) [Rename](#) [Insert](#)

Result Grid | Filter Rows: | Edit: | Export/Import: |

	Group_id	Group_name	Description	group_address
▶	1	Marketing Team	Group for marketing-related recipients	marketing@example.com
	3	Tech Team	Group for technical-related recipients	
	9	MY team	NULL	helo@gmail.com
	11	ruchahr	trail2	grop@gmail.com
	12	ruchahr	trail2	grop@gmail.com
	15	trial1	let see	abcd@gmail.com
	17	trail2	tara sitara	tara@gmail.com
	39	RN	NULL	RN@gmail.com
	40	NEWGROUP	NULL	new@gmial.com
*	NULl	NULl	NULl	NULl

Example 3: delete recipients in see recipients

Before deleting the recipient with Recipient ID

<input type="checkbox"/>	33	ruchika@gmail.com	Ruchika	F	dear	20
<input type="checkbox"/>	34	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/>	35	ruchika@gmail.com	Ruchika	F	dear	20
<input type="checkbox"/>	36	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/>	37	ruchika@gmail.com	Ruchika	F	dear	20
<input type="checkbox"/>	40	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/>	42	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/>	43	ruchika@gmail.com	tara	F	dear	20
<input type="checkbox"/>	47	sdvcs@sed	sdf	M	sdc	25
<input type="checkbox"/>	52	rutujakadam@iitgn.ac.in	rutu	F	rt	20
<input type="checkbox"/>	53	nidhi.iitgandhi@gmail.com	nidhi	F	nkk	20
<input type="checkbox"/>	54	tara@gmail.com	Sitara	F	abfv	24

[Delete](#) [Insert](#)

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

Recipient_id	RecipientEmail_id	User_id	Recipient_name	Gender	Company	Age	Subscription
32	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
33	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
34	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
35	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
36	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
37	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
40	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
42	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
43	ruchika@gmail.com	2	tara	F	dear	20	NULL
47	sdvcs@sed	2	sdf	M	sdc	25	NULL
52	rutujakadam@iitgn.ac.in	2	rutu	F	rt	20	NULL
53	nidhi.iitgandhi@gmail.com	2	nidhi	F	nkk	20	NULL
54	tara@gmail.com	2	Sitara	F	abfv	24	NULL
HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

After deleting the recipient with Recipient ID 47.

127.0.0.1:5000 says

Are you sure you want to delete selected recipients?

OK Cancel

<input type="checkbox"/> 33	dear	20			
<input type="checkbox"/> 34	ocomp	21			
<input type="checkbox"/> 35	ruchika@gmail.com	Ruchika	F	dear	20
<input type="checkbox"/> 36	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/> 37	ruchika@gmail.com	Ruchika	F	dear	20
<input type="checkbox"/> 40	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/> 42	harsh@gmail.com	harsh	M	ocomp	21
<input type="checkbox"/> 43	ruchika@gmail.com	tara	F	dear	20
<input checked="" type="checkbox"/> 47	sdvcs@sed	sdf	M	sdc	25
<input type="checkbox"/> 52	rutujakadam@iitgn.ac.in	rutu	F	rt	20
<input type="checkbox"/> 53	nidhi.iitgandhi@gmail.com	nidhi	F	nkk	20
<input type="checkbox"/> 54	tara@gmail.com	Sitara	F	abfv	24

Delete Insert

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	Recipient_id	RecipientEmail_id	User_id	Recipient_name	Gender	Company	Age	Subscription
	31	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
	32	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
	33	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
	34	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
	35	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
	36	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
	37	ruchika@gmail.com	2	Ruchika	F	dear	20	NULL
	40	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
	42	harsh@gmail.com	2	harsh	M	ocomp	21	NULL
	43	ruchika@gmail.com	2	tara	F	dear	20	NULL
	52	rutujakadam@iitgn.ac.in	2	rutu	F	rt	20	NULL
	53	nidhi.iitgandhi@gmail.com	2	nidhi	F	nkk	20	NULL
	54	tara@gmail.com	2	Sitara	F	abfv	24	NULL
	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

4) RENAME

[“NOTICE: This website is not giving access to the rename tables of the database provided. You can perform all insert, update, delete, add, and select operations with the tables provided on the website.”]

5) WHERE Clause

We are using the where clause to update the group name. We are taking group_id, which we selected on the See Existing Groups.html page. We are setting the new group_name by where group_id= (chosen by the user).

Before writing where clause:

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	2	production team

[Delete](#)
 [Update](#)
 [Insert](#)

The screenshot shows the MySQL Workbench interface. In the top-left, the Navigator pane displays the 'bulkmail' schema and other available databases like 'hema', 'sakila', 'studentdb', 'sys', and 'world'. The main area is titled 'bulkmail_updated*' and contains the following SQL code:

```

122 • select * from group_receiver;
123 • select * from individual_receiver;
124 • select * from email;
125 • select * from Email_Group;
126 • ALTER TABLE Email_Group

```

Below the code is a 'Result Grid' table with the following data:

Group_id	Group_name	Description	Criteria	group_address
1	Marketing Team	Group for marketing-related recipients	Company	marketing@gmail.com
2	production team	Group for sales-related recipients	Gender	sales@gmail.com

After writing where clause:

This screenshot shows a web-based application window titled 'Group Details' with the URL '127.0.0.1:5000/seeGroups'. The page displays a table with columns 'Select', 'Group ID', and 'Group Name'. The data is as follows:

Select	Group ID	Group Name
<input type="checkbox"/>	1	Marketing Team
<input type="checkbox"/>	2	sales team

At the bottom of the table are three buttons: 'Delete', 'Update', and 'Insert'.

This screenshot shows the MySQL Workbench interface again. The Navigator pane shows the 'bulkmail' schema. The 'bulkmail_updated*' query editor contains the same SQL code as the first screenshot. The 'Result Grid' table now includes an additional row with all fields set to NULL:

Group_id	Group_name	Description	Criteria	group_address
1	Marketing Team	Group for marketing-related recipients	Company	marketing@gmail.com
2	sales team	Group for sales-related recipients	Gender	sales@gmail.com
NULL	NULL	NULL	NULL	NULL

Similarly, we are using the where clause for deleting groups, deleting Recipients, updating recipients, fetching ids if given email, etc...

Contribution:

Members of G1:

- Yalamanchili Pavithra
- Sunil Jatav
- Madineni Divya
- Rutuja Kadam

Member of G2:

- Harshal Sonawane
- Nidhi Kumari
- Ruchika Sonagote
- Kanamarlapudi Hema

The responsibilities for Group 1 and Group 2 were done as given in the assignment. There is discussion among respective groups, and work is divided equally. Later, the responsibilities of group 1 and group 2 were fulfilled equally by all the group members through discussion and documentation.