



- Department of computer science engineering -

Object-Oriented **Programming**

Case Study

CS: 305

: Basic Email System in C++ :

Subtitles:

Simulating an Email System with Inbox, Outbox, and Message Sending Functionality.



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CONTENT :-

- Summarize 1st ppt :
 - Explain need, Advantage & Disadvantage.
 - Studied exist system.
 - Studied Application.
- 2nd ppt:
 - Explain case study using Use-case diagram.
 - Explain case study using Class-object diagram.
 - Input-output flow of case study.



- Brief of 1st ppt -

Email systems play a crucial role in modern communication, providing a quick and efficient means of exchanging messages electronically.

- Advantage of email system -

The email system offers advantages such as:-Speed and Efficiency, Cost-Effective, Global reach, Documentation and Record Keeping.

- Disadvantage of email system -

While the email system offers numerous advantages, it also has some disadvantages including:-Spam and Overload, Lack of Personal interaction, Security Concerns, Technical Issues.

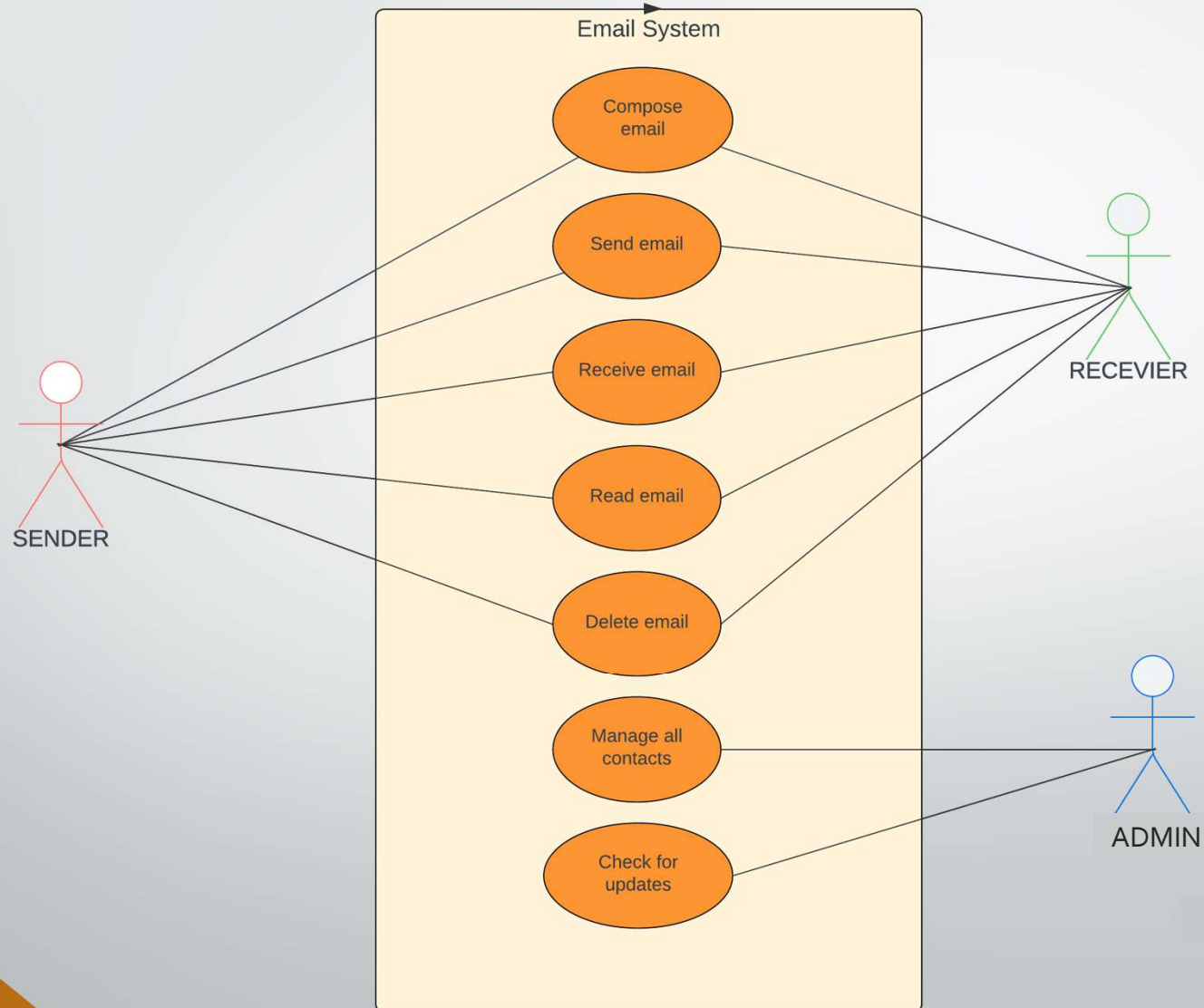
- Studied exist system -

As of my last knowledge update in January 2022, several email systems exist, each with its unique features and characteristics. for example:-Gmail, Outlook, yahoo mail.

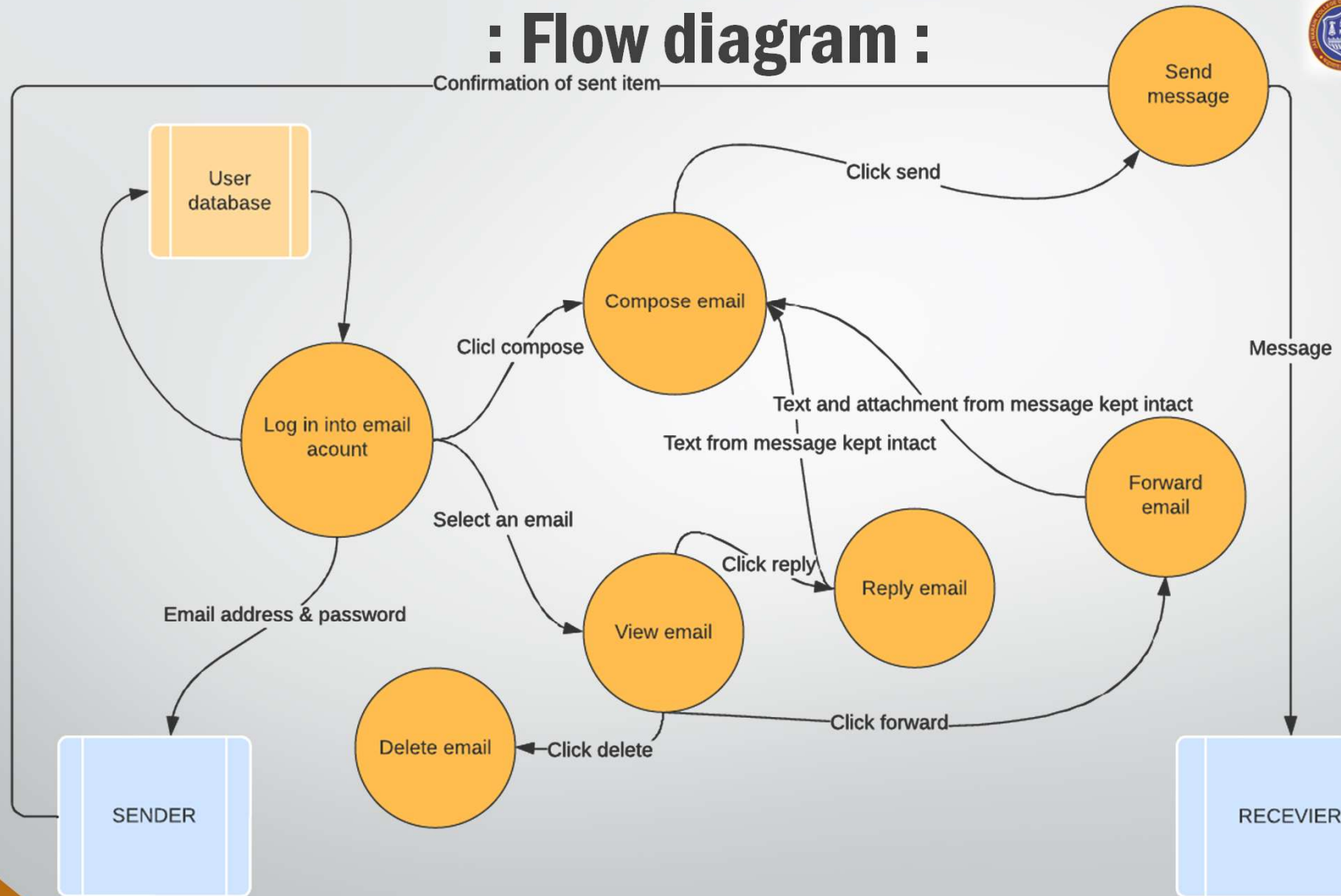
- Studied application -

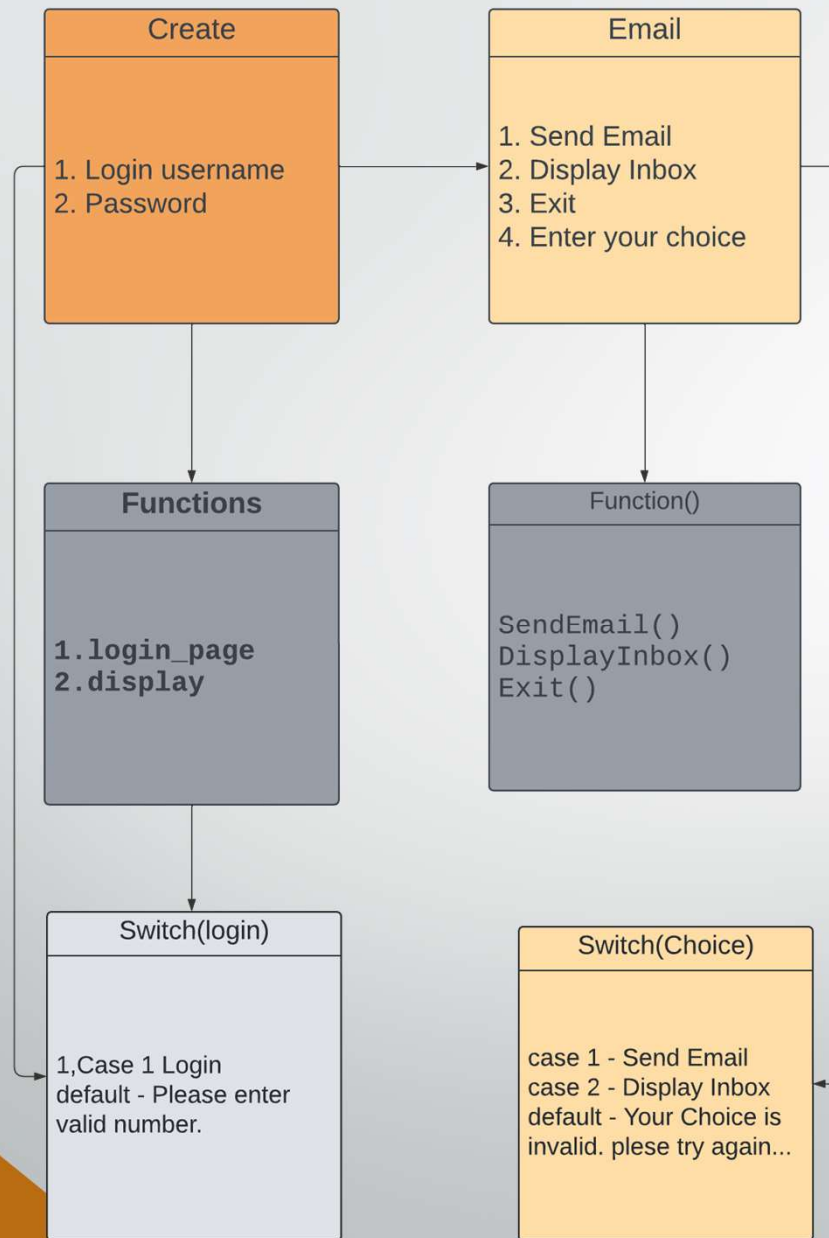
1.Studying an email application involves exploring the features, functionality, and usage of a specific email platform. Key aspects of such a study may include: **User Interface (UI), Features and Functionality, Security Measures, Compatibility, Storage and Archiving.**

: Use case diagram :



: Flow diagram :





: Class and object diagram :

: Email system sample C++ :

➤ **Our login interface :-**

Input - First press 1 for login :

Then enter your details like :

>>Username & password

Output - Your account successfully logged in

```
1. Login
press 1 : 1
login :
Enter your username: cybercraft
Enter password : craft!@123
your account successfully logged in
```

: Email system sample C++ :

➤ **Our screen will display like this :-**

There will be three options to choose:

1. First one was for sending email.
2. Second one for notify emails.

ex: “you have some message in inbox

>>Check it out”

3. Third one is for exit.

```
PS F:\> cd 'f:\case-study\output'
PS F:\case-study\output> & .\'emial-using-oopm.exe'
1. Send Email
2. Display Inbox
3. Exit
Enter your choice: █
```


: Email system sample C++ :

➤ Our input and output for first option :-

Input :

- Like for example we choose option 1st :-

> Send email : “Now we have to fill some details”

Like: Sender’s email, Recipient’s email,
Subject and Body.

Output : Successfully send.

```
send Email
Enter sender's email address: cybercraft@gmail.com
Enter recipient's email address: shivamsahu@gmail.com
Enter email subject: for-texting
Enter email body: ppt2
Your E-mail has been sent successfully .....!.
1. Send Email
2. Display Inbox
3. Exit
Enter your choice: █
```

THANK YOU

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