

- 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.







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 -

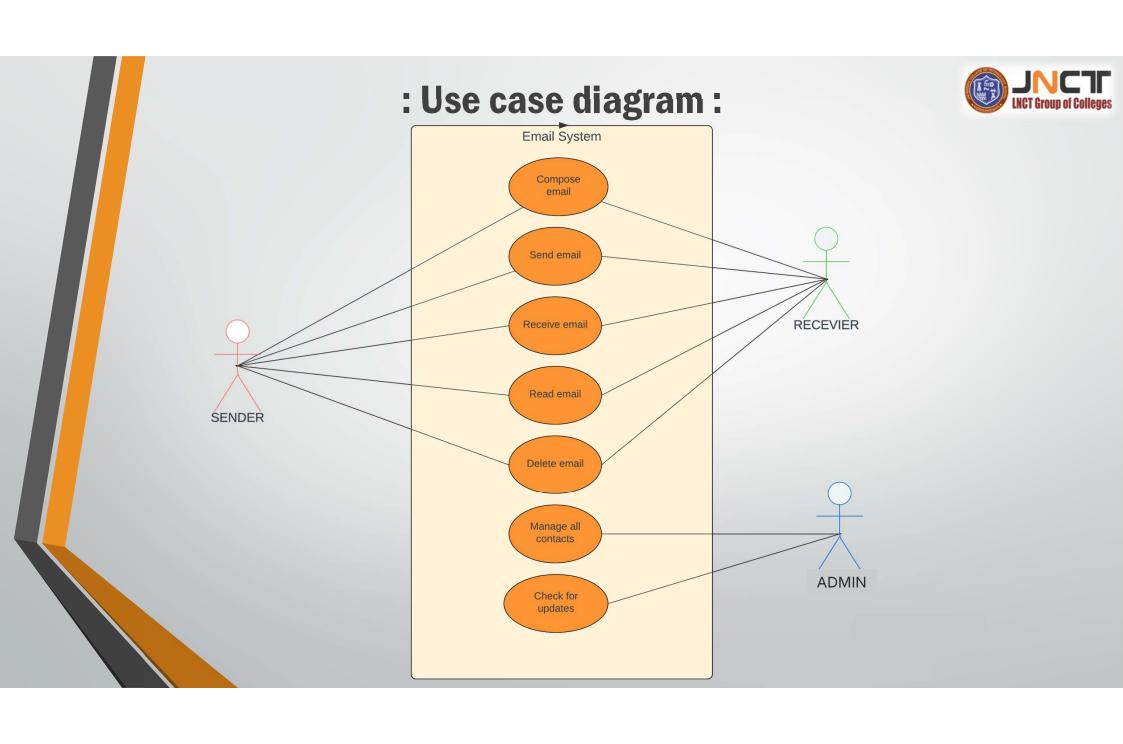
While the email system offers numerous advantages, it also has some disadvantages including:-Spam and Overload, Lack of Personal interaction, Security Concerns, Technical Issues.

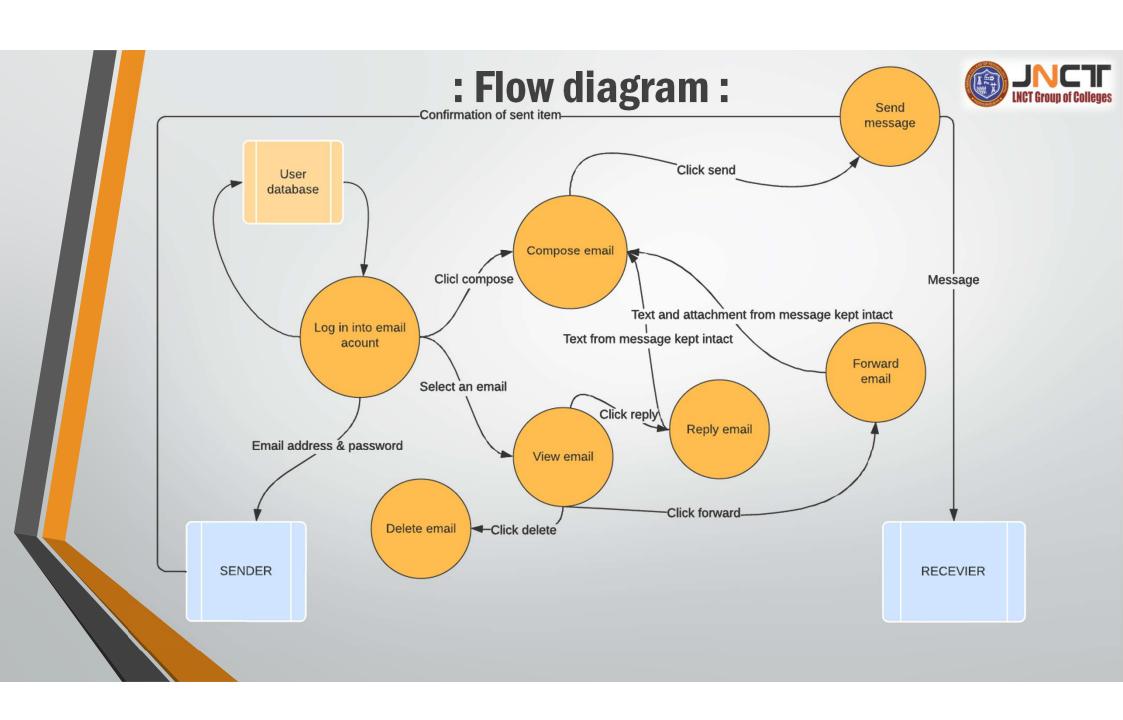
- Studied exist system -

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 -

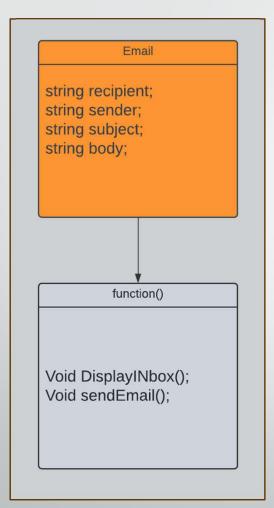
1.Studying an email application involves exploring the features, functionality, and usage of a specific email platform. Key aspects of such a study may include: **User Interface (UI)**, **Features and Functionality**, **Security Measures**, **Compatibility**, **Storage and Archiving**.

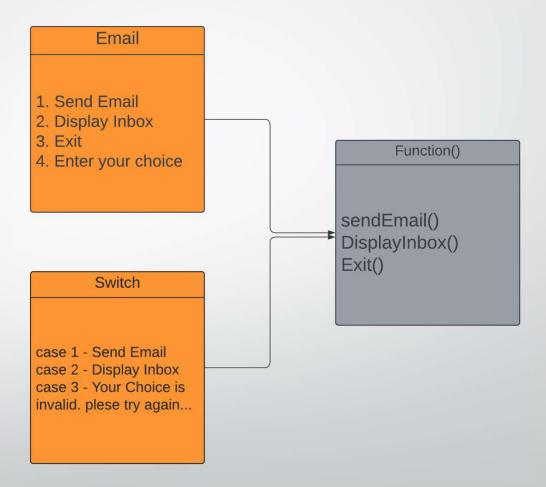














: Email system sample C++:

> 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: ■
```



```
#include <iostream>
       using namespace std;
        class Create
        string username;
        string password;
        string recipient;
        string sender;
        string subject;
        string body;
        Create()
         username = 'name';
         password = 'password';
        void login_page()
         cout << "Enter your username: ";
         cin >> username;
         cout << "Enter password : ";</pre>
         cin >> password;
         cout << "your account successfully logged in \n";</pre>
```





: Email code sample C++:

```
string recipient;
string sender;
string subject;
string body;
Email()
 recipient = "recipt";
 sender = 'sendMasaage';
 subject = "subject";
 body = "body";
void display()
 int choice;
 cout << "1. Send Email\n";
 cout << "2. Display Inbox\n";
 cout << "3. Exit\n";
 cout << "Enter your choice: ";
void sendEmail()
 cout << "Enter sender's email address: ";
 cin >> sender;
 cout << "Enter recipient's email address: ";
 cin >> recipient;
 cout << "Enter email subject: ";
 cin >> subject;
 cout << "Enter email body: ";
 cin >> body;
```



: Email code sample C++:

```
cout << "Your E-mail has been sent successfully ....!.\n";</pre>
 void DisplayInbox()
  cout << "you have some massage in inbox..... Check it out ..\n.";
 void Exit()
  cout << "Exit...\n";
int main()
 char login;
 Create create;
 Email email:
 char choice;
 cout << "1. Login\n";
 cout << "press 1: ";
 cin >> login;
 switch (login)
  cout << " login : \n";
  create.login_page();
  email.display();
```

: Email code sample C++:

```
JNCT Group of Colleges
```

```
while (login != 1)
         cout << "plese enter valid num\n";</pre>
         break;
         break;
                cout << "2. Display Inbox\n";
             cin>>choice;
        switch (choice)
        case '1':
         cout << "Send Email\n";
         email.sendEmail();
         break;
         case '2':
          cout << "Display Inbox\n";</pre>
          email.DisplayInbox();
          break;
          break;
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        default:
         cout << "Your Choice is invalid ... Plese try again..";
         break;
        while (choice != 3)
```



THANK YOU

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