VCOLAB MAIL SYSTEM

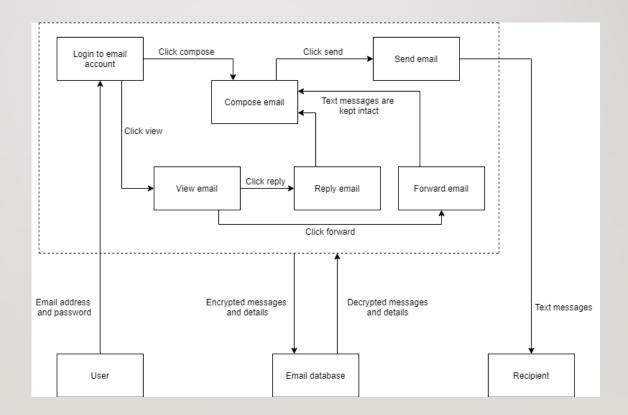
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PROBLEM STATEMENT

- The objective of the project is to securely transmit the messages between sender and receiver by encrypting the data and storing it safely.
- An algorithm to secure messages sent by the user based on efficiency and confirms the identity of the user by entity authentication using verification and validation.

METHODOLOGY

Data Flow Diagram



IMPLEMENTATION

Encryption and Decryption

```
Text → Range → Hexadecimal → Binary

Binary → Hexadecimal → Range → Text

(\text{space})=32*4=128 /=47*4=188 range: (128,188)

:=58*4=232 @=64*4=256 range: (232,256)

[=91*4=364 '=96*4=384 range: (364,384)

\{=123*4=492 ~=126*4=504 range: (492,504)

0=48*6=288 9=57*6=342 range: (288,342)

A=65*8=520 Z=90*8=720 range: (520,720)

a=97*8=776 z=122*8=976 range: (776,976)
```

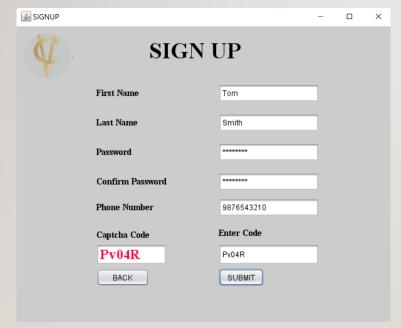
RESULTS – FRONTEND

Homepage

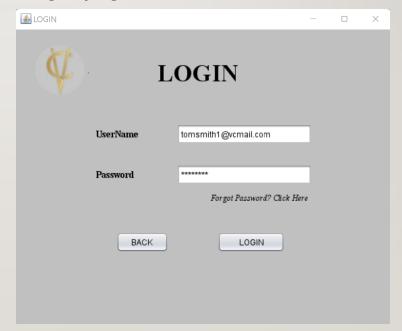


FRONTEND - CONTD.

Signup page

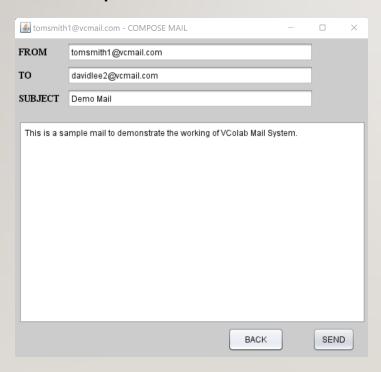


Login page

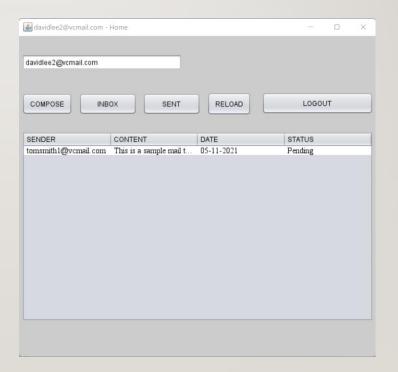


FRONTEND - CONTD.

Compose mail

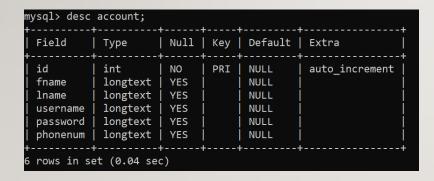


Inbox



BACKEND

Account table





BACKEND - CONTD.

• Email table

Field	Type	Null	Key	Default	Extra
sender	longtext	YES		NULL	
receiver	longtext	YES	ĺ	NULL	
content	longtext	YES		NULL	
date	longtext	YES		NULL	
id	int	NO	PRI	NULL	auto_increment
subject	longtext	YES		NULL	
status	longtext	YES		NULL	



CONCLUSION

- It identifies the sender and their intentions it provides the recipient with the sender's contact information.
- A well constructed email sign-off is essential to leave the reader with a positive impression.
 Writing clear, professional emails can help position one positively in their career, build a good network of people and potential employers.
- This software helps mainly in communicating confidential mails from the sender to the receiver.