



CYBER SECURITY SYSTEM USING (Modified RSA) ALGO.

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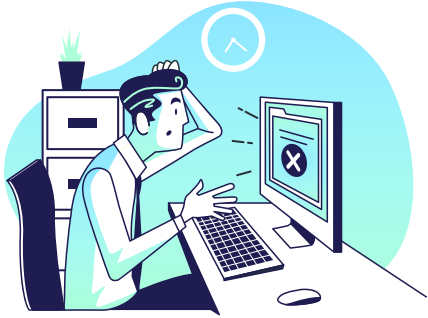
MISSION STATEMENT

Mission of this project is used to build a secure and sophisticated security system using the latest cryptographic algorithms

The idea! of RSA is based on the fact that it is difficult to factorize a large integer. The public key consists of two numbers where one number is a multiplication of two large prime numbers.

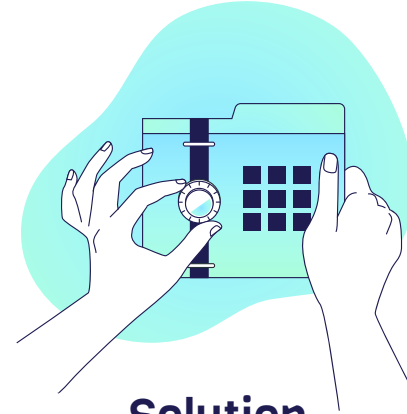


PROBLEM VS. SOLUTION



Problem

All The Current Security Systems
Are Using The Cypher Code
Mechanism And RSA Approach!



Solution

In this Project I Used The Double
Encryption, Substitution Cypher
Mechanism With RSA Which Is
Totally Based On Public/Private
Key Mechanism!

COMPETITIVE ADVANTAGE



Them

System Works On RSA Encryption Mechanism And Database Maintains In Servers.

Us

System Works On Public/Private Key Mechanism With Double Encryption And Database Stored At Cloud By Multiple Encryption

DATABASE SYSTEM

Public Key

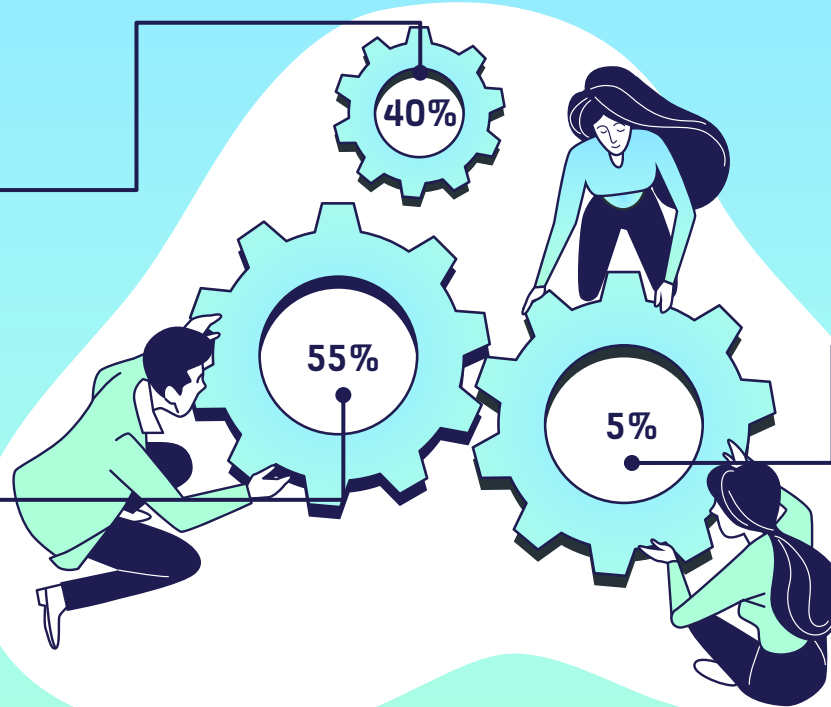
The **Public Key** is used to encrypt the data

Multiple-Encryption

The **Process** of Encrypting Already Encrypted Message

Private Key

The **Private key** is used to decrypt the data



OUR SERVICES

Unique Id

At Every New
Registration A Unique ID
Generates

Email

Every Email Is Saved In
Encrypted Manner Using
The Public Key

Public Key

A Key Which Is Decided
To Take Part In
Encryption Process

Password

Every Password Is Saved
In Encrypted Manner
Using Number Based
Algo

A PICTURE ALWAYS REINFORCES THE CONCEPT

Email Is Encrypted
Based On Key.

Mobile Number Is Encrypted Based On Key.

Passkey Is Encrypted Based On Key.



```
90 string Decryption(string a)
91 {
92     int pfact= primes.first * primes.second;
93     int fi= (primes.first-1) * (primes.second-1);
94     int e = 2;
95
96     while (1) {
97         if (gcd(e, fi) == 1)
98             break;
99         e++;
100     }
101     public_key = e;
102
103     int d = 2;
104     while (1) {
105         if ((d * e) % fi == 1)
106             break;
107         d++;
108     }
109     private_key = d;
110
111     for(int i=0; i<a.size(); i++)
112     {
113         a[i]--(privatekey.size()-1);
114         a[i]--private_key+public_key;
115     }
116     return a;
117 }
```

```
Users > yashrajain > Downloads > M.C.A-Semester-4 > Class-Work > Cryptography-Project > crtography.cpp > ...
162

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE [X] Code + ~ [ ] [X] ... ^ X

-----
|----- Enter Your Private Key For Database -----|
|-----|

c2cstrong+

Your Email:- 0|000|000L|00|001-00
Your Mobile No.:- SKSPKRNKON
Your Password:- LONM

Your Email:- 0|000|00L000|00|001-00
Your Mobile No.:- SKSPKRNKON
Your Password:- LL
```

ADMIN BLOCK



The screenshot shows a terminal window with a dark background. At the top, there's a header "Welcome To The Admin Block" flanked by dashed lines. Below it, a list of four options is displayed: "1) Remove Key From Database", "2) Detect Key In Database", "3) Make Copy Of Selected Id", and "4) Section-Wise Files". Another dashed line separates this from a prompt "Choose Any Option". At the bottom, there's a prompt "Enter Your Choice:-" followed by a yellow cursor. The terminal window has a standard interface with tabs at the top (PROBLEMS, OUTPUT, TERMINAL, DEBUG CONSOLE) and a status bar at the bottom showing "Ln 975, Col 2", "Spaces: 2", "UTF-8", "LF", "C++", "Go Live", "Prettier", and a bell icon.

A PICTURE ALWAYS REINFORCES THE CONCEPT

Admin Can
Detect/Remove ID's.

Admin Can Make Copies
Of Selected Database.

Admin Can Make
Sections Of All
Database.

THANKS!

Do you have any questions?

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