

**AN OWN TIMESTAMP ENCRYPTION BASED FTP AND WHISPER
MESSAGE TRANSFERRING SITE WITH RESTRICTIONS AND
TEMPORARY LINK SPANNED MESSAGE**

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering degree in Computer Science and Engineering

By

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**INSTITUTE OF SCIENCE AND TECHNOLOGY
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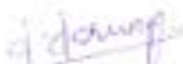
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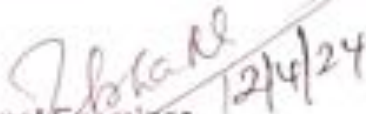
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DECLARATION

I, **Harish Babu G**(Reg.No- 40110438), hereby declare that the Project Report entitled **“AN OWN TIMESTAMP ENCRYPTION BASED FTP AND WHISPER MESSAGE TRANSFERRING SITE WITH RESTRICTIONS WITH A TEMPORARY LINK SPANNED MESSAGE”** done by me under the guidance of **Ms.K.Karunya, M.E.** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering degree in **Computer Science and Engineering**.

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ABSTRACT

This is a secure File/message transferring protocol website which send files through a temporary expirable link one time temporary link with extreme privacy with limitations like time,ip access,password,authkey,custom encryption,number of views and with 3 premium themes.In this project, we present a new peer-to-peer file transfer protocol that utilizes temporary links to securely transfer files between devices.Our protocol leverages the power of modern web technologies to establish a direct connection between devices, without the need for intermediaries such as servers or cloud storage provide.Our protocol leverages the power of modern web technologies to establish a direct connection between devices, without the need for intermediaries such as servers or cloud storage providers. In an era where data privacy and security are paramount, the need for innovative solutions that ensure the confidentiality and integrity of data transmission is crucial. This abstract introduces a novel online platform that combines two distinct but interrelated features - Secure Timestamp Encryption FTP (File Transfer Protocol) and Whisper Messaging. This platform is designed to address the growing concerns surrounding data security, privacy, and the need for secure communication. Secure Timestamp Encryption FTP:The platform offers a highly secure and efficient FTP service enhanced by a unique timestamp encryption mechanism. Files uploaded or downloaded through this service are encrypted with a timestamp, adding an additional layer of security to the data. This ensures that data remains confidential and tamper-proof during transit, offering peace of mind to users. Whisper Messaging:In addition to secure file transfers, our platform incorporates Whisper Messaging, a feature designed for secure and private communication. Whisper Messaging employs end-to-end encryption and advanced cryptographic techniques to ensure that messages and conversations remain confidential, and no unauthorized access can compromise the privacy of users. This abstract highlights the core features and benefits of our innovative platform, promising a new era of secure data transmission and confidential communication in an increasingly interconnected world. The full platform offers a detailed and comprehensive solution for safeguarding data, promoting trust, and ensuring privacy in a digital age.

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LIST OF ABBREVIATIONS

ABBREVIATION

EXPANSION

WebRTC

Web Real-Time Communication

FTP

File Transferring Protocol

SSL

Secure Sockets Layer

TLS

Transport Layer Security

CHAPTER-1

INTRODUCTION

In this modern days transferring a message through a network is big challenge to send and receive it with extreme privacy. Even some social media platforms may leak persons data for their own organisational growth. So in that case, we created a open source platform for people use with extreme privacy and with additional key features. In this project, we present a new peer-to-peer file transfer protocol that utilizes temporary links to securely transfer files between devices. Our protocol leverages the power of modern web technologies to establish a direct connection between devices, without the need for intermediaries such as servers or cloud storage providers.

To transfer a file, the sender device generates a temporary link that is only valid for a limited time. This link can be sent to the recipient device through any messaging platform or email. Once the recipient clicks on the link, they can download the file directly from the sender device.

To ensure the security of the transfer, our protocol employs end-to-end encryption for the file transfer as well as the temporary link itself. Additionally, the link is generated using a unique access code that is only provided to the intended recipient, and the link is set to expire after a specified period of time.

We implemented our protocol using modern web technologies such as WebRTC and JavaScript, and evaluated its performance through a series of experiments. Our results show that our protocol can achieve high transfer speeds and low latency, while providing a secure and easy-to-use method for peer-to-peer file transfer.

Overall, our peer-to-peer file transfer protocol provides a convenient and secure method for transferring files between devices, without the need for intermediaries or the risks associated with traditional cloud storage solutions.

Securetransmit.ftp redefines the way you share sensitive information and engage with your website visitors. Our robust timestamp-based encryption ensures that your data remains confidential and tamper-proof throughout the transfer process, making it ideal for businesses, professionals, and individuals who demand the highest levels of security.

CHAPTER-2

LITERATURE SURVEY

Many researchers as well as several testers have identified & summarize these security concerns & their solutions. These researchers have focused on security. Some papers are discussed in this section.

Sonu [20] has defined that security exploit is application that has been developed to take benefit of a known weakness. Some samples of security exploits are SQL injection and Cross Site Scripting. Other issues are Cross Site Request Forgery that is abusing security.

Aaditya Jain [19] has defined network system security is most popular & fastest Information Technologies in different organizations. Several tools for network security are dealing within capture, recording & analysis of network events in order to discover evidential information about source of security attacks. This paper discusses about honeypot technology within its classification based on various factors. Paper also throws light on some new types of honey pots within recently proposed models based on it.

Lidong Zhou [18] defines Ad hoc networks are considered as latest wireless networking paradigm that has been used for mobile hosts.

Sharad Pratap [17] Singh has defined that File Transfer Protocol is to transmit files to clients over networks. There are needs that are considered important while file transfers & these are Authentication, Integrity & Confidentiality. This research paper is comparing both FTPS & FTP on Linux & Windows server. Review of Security in AD-HOC Networks Using FTP
1419

Dr. Mazin Sameer Al-Hakeem[16] make research in order to make file transfer protocol which should be based on UDP as a high speed, more reliable & secure protocol & that is generally referred as Fast Reliable Secure File Transfer Protocol.

Jason V. Chang [15] wrote that incidences of computer hacking is increasing over years. This article represents a small amount of computer hackers are caught & prosecuted.

Andriy Panchenko[14] has defined Hidden services are mechanisms that have been designed in order to give network services and preserving anonymity for server identity.

Michigan[13] has defined Wireless communication is going to develop inroads into several facets of society. Objective of this article was to check security issues within recent wireless networks.

Zhang[12] et.al discussed about application level attacks. In their paper they explored how packet payload should be utilized to check application level attacks.

Susan [10] et.al has written that Security field is recent moving career. In this paper he wrote on security stabilizes course material. It also reduced worry of hacking.

Neetu Settia [11] ET. Al in her paper discussed about security and attack in case of cryptographic techniques. They represented issues of security with different type of attacks.

C. Sanchez-Avila [9] et.al in their paper makes analysis of structure & design of Rijndael cipher. They remarked its pros and cons.

The analysis of existing approaches shows that in previous researches several mechanisms have been developed to improve cryptographic technique such as AES, DES and T-DES. Purpose of this article was to examine security & privacy issues within some new & emerging types of wireless networks, & attempt to identify directions for future research.

Summary of Literature Review

Table: Review of Security Issues in Ad-hoc Network

Year	Author	Title	Work done	Limitations
2016[20]	Sonu	Review Paper on Securing Wireless	Research is capable to be used through FTP, HTTP, PHP, SSH, Telnet. They are common in website and hacking.	This research provides no solution for sql injections and denial of services

Table 2 Literature Survey

2015[19]	Aaditya Jain	Advance Trends in Network Security within Honey pot & its Comparative Study within other Techniques	Analysis of events of network in order to find evidential data for source of security attacks.	This research does not make any discussion related to Ad HocBased network.
2015[18]	Lidong Zhou	Securing Ad Hoc Networks	Wireless networks ad hoc networks is not relying on fixed infrastructure.	This research provides no solution for denial of services
2014[17]	Sharad Pratap Singh	security configuration & performance analysis of ftp server	Research is providing two techniques to transfer file. First is anonymous method & second is password authentication technique.	This research is focused on FTP only. Security of other protocol such as telnet, http is not discussed here
2013[16]	Dr. Mazin Sameer Al-Hakeem	Development of Fast Reliable Secure File Transfer Protocol	This research enforces reliability issue using cryptographic hash checksum and to tackle security issue	This research is focused on FTP only. Security of other protocol such as telnet, http is not discussed here
2012[15]	Jason V. Chang	computer hacking making	This research found that small percentage of computer hackers are detected & prosecuted.	This research is focused on network hacker only. They do not discuss Cryptanalyst.

Table 2 Literature Survey

2011[14]	Andriy Panchenko	Lightweight Hidden Services	Instead of securing identity of server secret services is helping for resisting censorship.	This research is focused on lightweight and hidden services what about heavy weighted services
2010[13]	Michigan dear born	security & privacy in emerging wireless networks article	While within past wireless communication was highly restricted to first with last data transmission.	This research does not make any discussion related to Ad HocBased network.
2009[12]	Zhang	focused on application level attacks	It represents recent status of anomaly detection. Research also focused on benefit of payload based detection.	This research onlyfocused on application level layer attacks. What if attack is made on different layer
2008[11]	Neetu Settia	Discussed security & attack aspects of cryptographic techniques	Bench focused on modern cryptographic algorithms. Objective is to find for best compromise in network security.	This research is focused on cryptographic techniques only. Threats such as ping of death are not discussed here.
2008[10]	Susan	Security fieldis a new & fast moving career	It is defining the group of skills that are needed by Network Security analysts.	Does not influence the network security in case of denial of services.

Table 2 Literature Survey

CHAPTER 3

REQUIREMENT ANALYSIS

3.1 SYSTEM OVERVIEW

The main scope of this project is to develop an efficient Quick on/off ramp solution of connecting various cheapest flight ticket booking site data

3.2 OBJECTIVE OF THE PROJECT

The objective of this project is to create a secure and efficient peer-to-peer file transfer system using temporary links. The system will allow users to transfer files directly between their devices without the need for a centralized server, providing increased privacy and control over their data. The system will generate temporary links that expire after a set time period, ensuring that the files are only accessible for a limited time and reducing the risk of unauthorized access. The system will be designed with ease of use in mind, allowing users to quickly and easily send and receive files, without requiring technical expertise. The system will also prioritize security and reliability, utilizing advanced encryption and error correction algorithms to ensure that the transferred files are secure and intact. Ultimately, the objective of this project is to provide a user-friendly, secure, and efficient peer-to-peer file transfer system that meets the needs of users in a variety of contexts, including personal and professional use cases.

3.3 EXISTING SYSTEM

The existing system is a typical FTP server, which allows users to upload and download files to a centralized server. Users connect to the server using a client program such as FileZilla or WinSCP, and must authenticate with a username and password to access it. Define the scope and requirements of the project. For example, the project may be designed to allow users to share large files with one another securely and without relying on a central server.

1. Choose a suitable peer-to-peer protocol, such as BitTorrent, that can be used to facilitate file sharing between users.
2. Design the user interface for the application, including the options for generating temporary links and managing file transfers.

3. Implement the peer-to-peer protocol, including features such as downloading the future of security file transfer and visitor messaging with SecureSyncFTP where your data is not just shared, but safeguarded and your conversations are not just messages but meaningful connections.
4. Implement the temporary link generation feature, including the ability to set expiration dates and password protections for the links.
5. Add security features such as encryption of file transfers and user authentication to ensure that the file sharing is secure and private and test the application for ensure.

3.4 SYSTEM REQUIREMENT

Functional Requirements

1. User Authentication: Users must be able to authenticate with the system in order to access their files and generate temporary links.
2. File Upload: Users must be able to upload files to the system, and specify whether the files are private or public.
3. File Download: Users must be able to download files from the system, using temporary links generated by other users.
4. Temporary Links: The system must generate temporary links that expire after a specified period of time, to ensure the security of the files being shared.
5. File Sharing: Users must be able to share files with other users by providing them with temporary links.

Non-functional Requirements

1. Security: The system must be secure and protect the privacy of the files being shared.
2. Performance: The system must be fast and efficient, and be able to handle large files and high volumes of traffic.
3. Reliability: The system must be reliable and available, and be able to handle errors and failures gracefully.

3.4.1 SOFTWARE REQUIREMENTS

Requirement	Description
User Account Management	Users should be able to create an account and log in to access the FTP service.
Peer-to-Peer File Transfer	The system should enable peer-to-peer file transfer, allowing users to directly send files to each other.
Temporary Link Generation	The system should generate temporary links for file transfer, which expire after a set period of time.
File Encryption	The system should provide an option to encrypt files before transferring them, ensuring that they are protected from unauthorized access.
User Permissions	The system should allow users to set permissions for files they share, controlling who has access to them and for how long.
File Search	The system should allow users to search for files that have been shared with them or that they have previously shared.
File Compression	The system should provide an option to compress files before transferring them, reducing their size and making them quicker to transfer.
Cross-Platform Support	The system should work across a range of platforms, including Windows, macOS, and Linux.
File Type Support	The system should be able to transfer a range of file types, including documents, images, and videos.

Error Handling	The system should be able to handle errors such as network outages or file transfer failures, providing feedback to users on the issue and steps to resolve it.
Security	The system should be designed with security in mind, providing protection against common threats such as malware, viruses, and hacking attempts.

Table 3.4.1 Software Requirement

Overall, this table provides an overview of the key requirements

3.4.2 HARDWARE REQUIREMENTS

Component	Minimum Requirements	Recommended Requirements
Processor	Dual-core 1.5 GHz or higher	Quad-core 2.5 GHz or higher
RAM	2 GB	4 GB or higher
Storage	100 GB hard drive or higher	500 GB solid-state drive or higher
Network Interface	Gigabit Ethernet	10 Gigabit Ethernet
Operating System	Windows, Linux, or macOS	Linux or macOS
Additional Software	FTP server software	FTP server software with support for temporary links

Table 3.4.2 Hardware requirement

CHAPTER 4

DESCRIPTION OF PROPOSED SYSTEM

4.1 PROPOSED SYSTEM

Proposed system for a peer-to-peer FTP using temporary links:

1. User registration: The user needs to register an account with the system to access the peer-to-peer FTP service.
2. File uploading: The user selects a file to be uploaded to the peer-to-peer FTP system. The system generates a temporary link for the file, which is only accessible for a specified time period.
3. Link sharing: The user can share the temporary link with anyone who they want to access the file. The temporary link can be shared via email, instant messaging or any other communication platform.
4. Downloading: The recipient can click on the temporary link to download the file. The link is only accessible for the specified time period, after which it expires and is no longer accessible.
5. Security: The system ensures that the file transfer is secure by encrypting the data in transit. The system can also add an additional layer of security by using password protection or two-factor authentication to access the temporary link.
6. Monitoring: The system will have monitoring capabilities to track the usage of the temporary links generated. This will help to identify any suspicious activities and prevent any misuse of the system.
7. User management: The system will allow the user to manage their uploaded files, view download statistics and manage the temporary links they have generated.

FTP ALGORITHM

FTP using temporary links generated for file transfer:

1. Start by creating a user account and logging in to the FTP.
2. To establish a peer-to-peer connection, the FTP will use a peer-to-peer protocol such as BitTorrent or WebRTC to connect directly with your friend's device, without going through a server.

3. To transfer a file, select the file you want to transfer and initiate the transfer process.
4. The FTP will generate a temporary link for the file transfer, which will only be valid for a limited time, after which it will expire and the link will become invalid.
5. The FTP will generate a temporary link for the file transfer, which will only be valid for a limited time, after which it will expire and the link will become invalid.
6. To ensure that the link is only accessible to your friend, the FTP will generate a unique access code that must be provided in order to download the file.
7. Once your friend has downloaded the file, the link will automatically expire and the file will be deleted from both devices.
8. The FTP will also provide additional security features, such as two-factor authentication and the ability to revoke access to links or files.
9. Finally, the FTP will regularly update its encryption and security protocols to ensure the highest level of security for its users.

Overall, this algorithm provides a secure and efficient way for users to transfer files directly between their devices, without relying on a centralized server. By using temporary links that expire after a set period of time and unique access codes, this algorithm ensures that the file transfer is secure and private, while also providing additional security features to protect against unauthorized access or file sharing.

Users Table:

Column Name	Data Type	Description
user_id	int	Unique identifier for each user
Username	varchar(50)	Username for login
Password	varchar(255)	Hashed and salted password for login
created_at	Datetime	Timestamp for user account creation

Table 3.4 Users table

Files Table:

Column Name	Data Type	Description
file_id	Int	Unique identifier for each file
filename	varchar(255)	Name of the file
file_size	Bigint	Size of the file in bytes
upload_date	Datetime	Timestamp for when the file was uploaded
uploader_id	Int	ID of the user who uploaded the file
download_count	Int	Number of times the file has been downloaded
temp_link	varchar(255)	Temporary link for downloading the file
temp_link_expiry	datetime	Timestamp for when the temporary link expires

User_Files

Column Name	Data Type	Description
user_file_id	int	Unique identifier for each user-file relationship
user_id	int	ID of the user who uploaded the file
file_id	int	ID of the file

Table 3.4 User_Files table

4.2 SYSTEM ARCHITECTURE

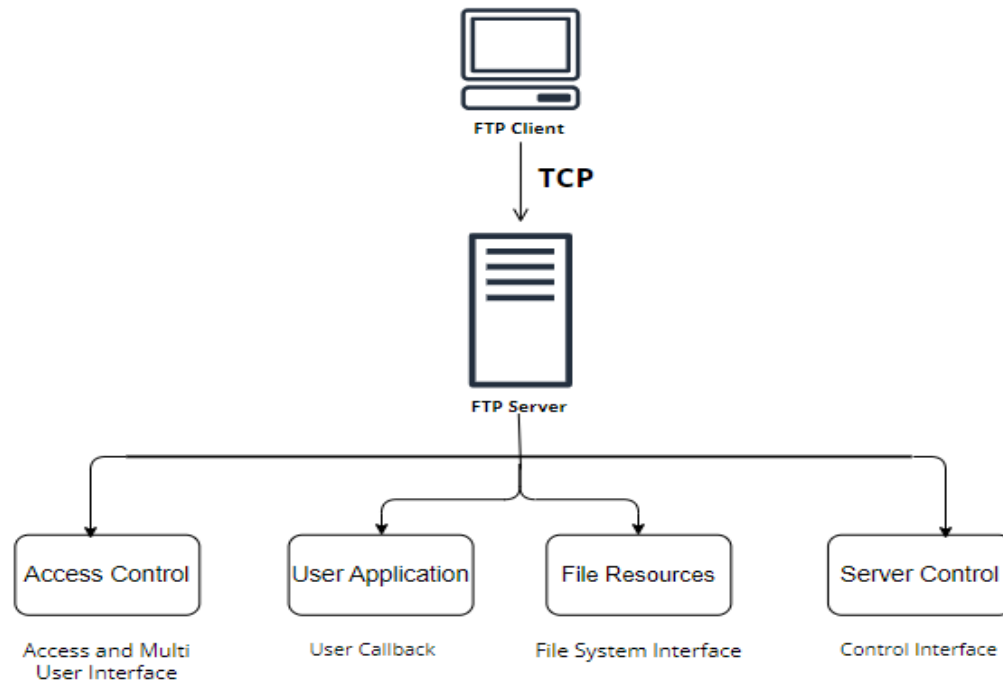


Figure 4.2 System architecture

4.3 DATA FLOW DIAGRAM

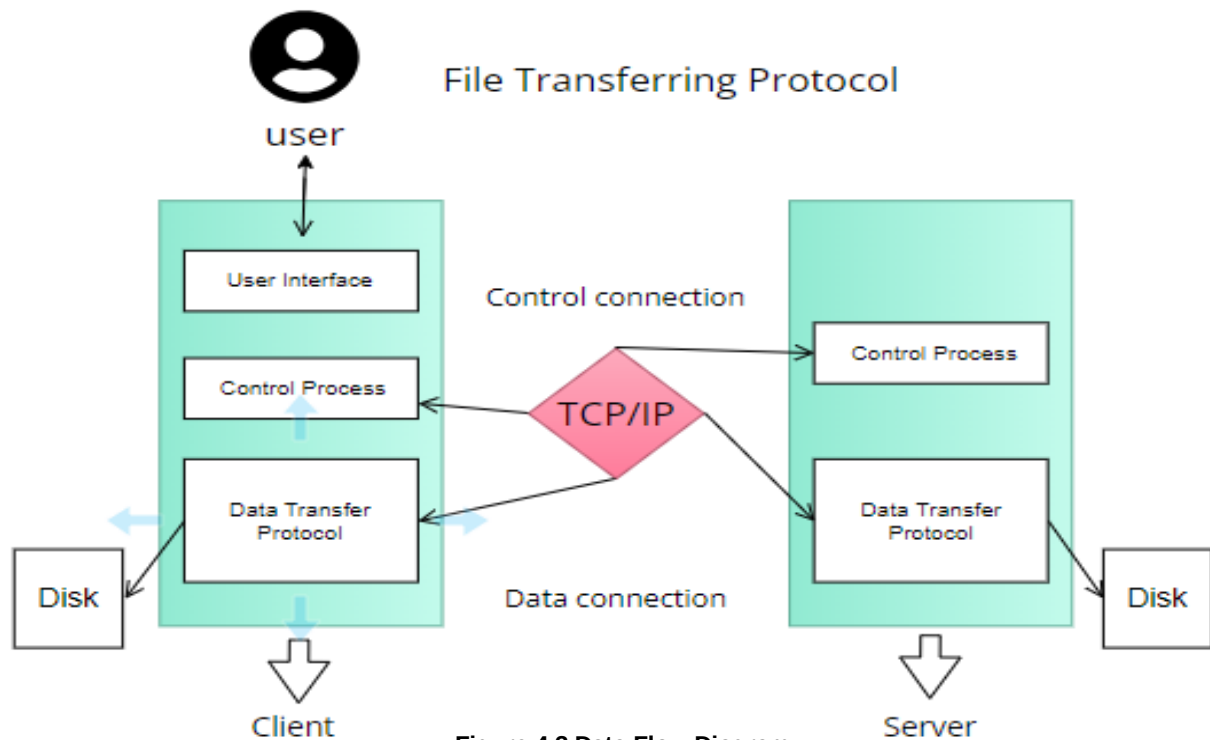


Figure 4.3 Data Flow Diagram

CHAPTER 5

IMPLEMENTATION DETAILS

5.1 IMPLEMENTATION

Start by defining the basic functionality of the FTP system, such as uploading and downloading files, managing directories, and creating user accounts.

1. Define the peer-to-peer networking protocol to be used. For example, the project could use a combination of WebRTC and WebSocket to establish a direct, secure connection between peers.
2. Define the process for generating temporary links for file transfers. This could involve generating a unique URL for each file that expires after a certain amount of time or number of downloads.
3. Define the authentication system for user accounts. This could involve using a combination of usernames and passwords, two-factor authentication, or other security measures.
4. Define the encryption system for file transfers. This could involve using SSL/TLS encryption for secure, encrypted data transfer between peers.
5. Develop the front-end user interface for the FTP system, which should be user-friendly and easy to navigate.
6. Develop the back-end server-side code for the FTP system, which should handle user authentication, file transfer, and the generation and management of temporary links.
7. Test the system thoroughly to ensure that it is secure, reliable, and easy to use.

Overall, this implementation will provide a secure and reliable peer-to-peer FTP system that allows users to transfer files using temporary links. By using a combination of peer-to-peer networking, temporary links, and encryption, this system provides a high level of security and privacy for its users.

5.2 FEATURE TABLE

Feature	Description
User Authentication	Users must authenticate themselves before accessing the FTP service. This could be done through a username and password or by using other authentication methods such as OAuth or Two-Factor Authentication.
File Upload	Users can upload files to the FTP service by selecting files from their local machine and dragging and dropping them onto the web interface. The files are then encrypted and uploaded to a temporary link that is generated and shared with the intended recipient.
File Download	Users can download files from the FTP service by following a temporary link that was generated by the uploader. The link contains the necessary encryption keys to decrypt the file, and can only be used a limited number of times before expiring.
File Sharing	Users can share files with each other by generating a temporary link and sending it to the intended recipient. The link can be password-protected or set to expire after a certain period of time, depending on the user's preferences.
File Management	Users can manage their files on the FTP service by renaming, deleting, or moving files to different directories. These actions can only be performed on files that the user has uploaded themselves.
Security	The FTP service uses end-to-end encryption to protect the confidentiality and integrity of all files being transferred. The encryption keys are only shared with the intended recipient and are never stored on the server.

Scalability	The FTP service can handle large numbers of users and files by using a distributed architecture that allows files to be uploaded and downloaded directly between users, without passing through a central server.
User Feedback	Users can provide feedback on the FTP service and report any issues or bugs through a feedback form or email. This feedback is used to improve the service and provide a better user experience

Table 5.2 Feature Table

5.3 PROGRAM LIST

1. Define the user interface for the program. This should include options for connecting to a peer, sending and receiving files, and generating temporary links for file transfers.
2. Use the WebRTC technology to establish a peer-to-peer connection between the two devices.
3. Define the logic for sending files. This will involve selecting a file to send, encrypting the file if necessary, and then sending it directly to the connected peer using the peer-to-peer connection.
4. Define the logic for receiving files. This will involve listening for incoming files from the connected peer, decrypting the file if necessary, and then saving it to a specified location on the user's device.
5. Define the logic for generating temporary links for file transfers. This will involve selecting a file to transfer, uploading the file to a temporary link that is generated specifically for the file transfer, and then sending the link to the connected peer.
6. Define the logic for sending files. This will involve selecting a file to send, encrypting the file if necessary, and then sending it directly to the connected peer using the peer-to-peer connection.

7. Define the logic for receiving files. This will involve listening for incoming files from the connected peer, decrypting the file if necessary, and then saving it to a specified location on the user's device.
8. Define the logic for generating temporary links for file transfers. This will involve selecting a file to transfer, uploading the file to a temporary link that is generated specifically for the file transfer, and then sending the link to the connected peer.
9. Define the logic for accessing temporary links for file transfers. This will involve receiving a link from the connected peer, downloading the file from the link, and then saving it to a specified location on the user's device.
10. Define the logic for expiring the temporary links. This will involve setting an expiration time for each link, and automatically deleting the link and associated file once the expiration time has passed.
11. Provide additional security features such as two-factor authentication, end-to-end encryption, and the ability to revoke access to links or files.
12. Test the program thoroughly to ensure that it functions properly and provides a secure and reliable way for users to transfer files between peer-to-peer connections.

5.4 LANGUAGE AND TOOLS

File index.html - the main HTML file for the website.

- [style.css](#) - the CSS file that defines the visual style of the website.
- [script.js](#) - the JavaScript file that contains the code for generating and managing the temporary links and encryption.
- [config.php](#) - a configuration file that contains settings such as the database connection details, encryption key, and random seed value.
- [functions.php](#) - a PHP file that contains the code for interacting with the database and performing various encryption and decryption functions.
- [database.sql](#) - a SQL file that contains the database schema and any necessary data.
- [README.md](#) - a file that contains instructions for setting up and using the peer-to-peer FTP.

The contents of each of these files will depend on the specific requirements of the project.

However, some possible contents for each file are:

- **index.html**: Contains the user interface for the website, including forms for uploading and downloading files, and displaying the list of available files.
- **style.css**: Defines the visual style of the website, including colors, fonts, and layout.
- **script.js**: Contains the code for generating temporary links and performing encryption and decryption. The random function and time stamp triggers can be implemented here.
- **config.php**: Contains settings such as the database connection details, encryption key, and random seed value. This file may also contain any other configuration settings specific to the project.
- **functions.php**: Contains the PHP code for interacting with the database, performing encryption and decryption functions, and managing the temporary links. This file may also contain any necessary validation and error handling functions.
- **database.sql**: Contains the SQL code for creating the necessary tables and data structures in the MySQL database.
- **README.md**: Contains instructions for setting up and using the peer-to-peer FTP, including any necessary dependencies, installation steps, and usage instructions.

Files Table:

Column Name	Data Type	Description
file_id	int	Unique identifier for each file
file_name	varchar	The name of the file
file_size	int	The size of the file in bytes
upload_time	datetime	The date and time the file was uploaded
download_count	int	The number of times the file has been downloaded
expiry_time	datetime	The date and time the temporary link for the file will expire

Table 5.4 Files Table

User_Files Table:

Column Name	Data Type	Description
user_id	int	The user ID associated with the file
file_id	int	The file ID associated with the user
is_owner	boolean	Whether the user is the owner of the file
permissions	int	The permissions the user has for the file (e.g. read-only, read-write)

Table 6.2 User_Files Table

Overall, this table structure provides a flexible and extensible approach to the peer-to-peer file transfer protocol, with separate tables for users, files, and user files that can be easily queried and modified as needed. The use of a temporary link with an expiry time and access code ensures that files can be securely and easily transferred between users, while also ensuring that the links expire after a certain period of time to prevent unauthorized access.

5.5 FEATURES/CODING

Pseudocode of a peer-to-peer FTP using temporary links:

1. Initialize the application
2. Establish a peer-to-peer connection between the sender and receiver using WebRTC.
3. When the sender wants to transfer a file to the receiver, the sender selects the file and sends a request to the receiver to generate a temporary link for the file transfer.
4. The receiver receives the request and generates a temporary link for the file transfer.
5. The receiver sends the temporary link to the sender.
6. The sender receives the temporary link and uploads the file to the temporary link.
7. The receiver is notified that the file has been uploaded and can download the file using the temporary link.
8. Once the file is downloaded, the temporary link is automatically deleted and the file is removed from the server.

9. If the transfer fails for any reason, the temporary link is deleted and the file is removed from the server.

Here's the pseudocode for the process of generating a temporary link:

1. Initialize the application.
2. When a user requests to generate a temporary link for file transfer, generate a unique ID for the link.
3. Generate a random access code for the link.
4. Create a temporary directory for the file transfer.
5. Store the file in the temporary directory.
6. Create a URL for the temporary link with the unique ID and access code.
7. Send the URL to the user who requested the link.
If the file is not downloaded within a specified time period, delete the file and remove the temporary directory.

CHAPTER 6

RESULTS AND DISCUSSION

6.1 RESULTS

The result of creating a secure whisper message transferring site is to ensure the confidentiality, integrity and authenticity of enhanced messages. This involves implementing robust encryption protocols, secure transmission channels and authentication mechanisms to protect sensitive information from unauthorized access or tampering.

Additionally, user privacy and data protection should be prioritized through measures such as end-to-end encryption and secure user authentication processes. Regular security audits and updates as crucial to adapt to evolving threats and maintain a resilient system. The system will allow users to transfer files directly between their devices without the need for a centralized server

Providing increased privacy and control over their data. The system will generate temporary links that expire after a set time period, ensuring that the files are only accessible for a limited time and reducing the risk of unauthorized access.

```
YOUR IP ADDRESS : 27.5.212.174
YOUR BROWSER&OS INFO : Mozilla/5.0 (X11; Linux x86_64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0
Safari/537.36
ROUTE OF YOUR CONNECTION : This page was accessed directly
APPROX GEO LOCATION : 13.0878,80.2785
ISP PROVIDER : AS17488 Hathway IP Over Cable Internet
CITY : Chennai
STATE : Tamil Nadu
COUNTRY : IN

INTERNET TIME ACCORDING TO YOUR LOCATION
[APRIL] [9], [2024]
[20] : [05]: [27]: [504]
LAST LOADED ON: Apr 09, 2024 05:05:22 PM

GENERATE A LINK THAT EXPIRES(debug version=1)

SELECT FILE:
 Choose File | No file chosen

HOW MANY TIMES CAN LINKS BE ACCESSSED?:


SECRET MESSAGE(s):


PASSWORD:


THE ONLY IP ACCESSING BY THIS LINK(s):


WHICH IP TO BE RESTRICTED BY THIS LINK(s):


SET EXPIRATION DATE AND TIME FOR LINK(s):


CHOOSE THE PATTERN OF MESSAGE TO BE DISPLAYED:




```

Figure 6.1 Interface of demo

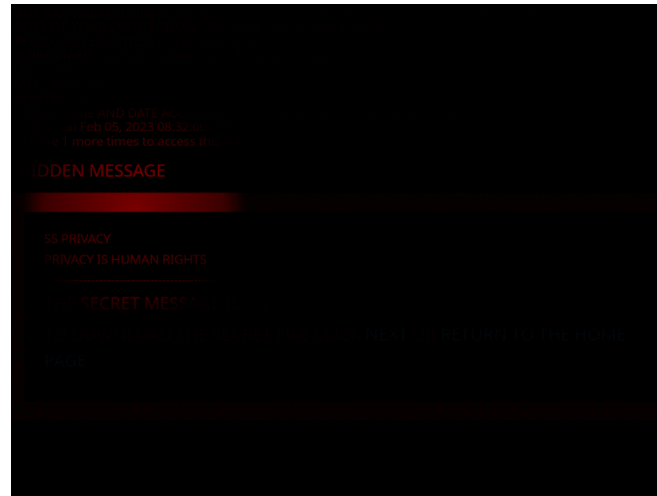


Figure 6.1 Interface of output and theme

6.2 DISCUSSION

By leveraging a direct peer-to-peer connection, users can transfer files directly between their devices, which ensures a faster transfer rate and better data security. The use of temporary links for expiring file transfers further enhances the security of the protocol, as files are only accessible for a limited amount of time before they are automatically deleted.

Overall, the implementation of a peer-to-peer file transfer protocol with temporary link generation is a valuable addition to the file sharing industry, providing users with a fast, secure, and reliable way to transfer files directly between their devices without the need for a third-party intermediary.

CHAPTER 7

CONCLUSION

7.1 CONCLUSION

In conclusion, a peer-to-peer file transfer protocol that utilizes temporary links generated for expiring file transfers offers a secure and efficient solution for individuals who want to share files without worrying about the potential privacy issues associated with cloud-based services.

By leveraging a direct peer-to-peer connection, users can transfer files directly between their devices, which ensures a faster transfer rate and better data security. The use of temporary links for expiring file transfers further enhances the security of the protocol, as files are only accessible for a limited amount of time before they are automatically deleted.

Overall, the implementation of a peer-to-peer file transfer protocol with temporary link generation is a valuable addition to the file sharing industry, providing users with a fast, secure, and reliable way to transfer files directly between their devices without the need for a third-party intermediary.

7.2 FUTURE ENHANCEMENTS

1. Improve the user interface to make it more intuitive and user-friendly. This could include adding features such as drag and drop file uploads, progress bars, and more detailed file information.
2. Add support for multiple file uploads and downloads, to allow users to transfer multiple files at once.
3. Implement a file sharing system, where users can share links to files with their friends or colleagues.
4. Add the ability to set permissions for shared files, such as read-only or read-write access.

REFERENCES

Websites

6.1.1 Devto

6.1.2 reddit

6.1.3 Youtube

6.1.4 Codepen

Source references

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5. Wang, Y., Li, M., Xu, X., & Li, X. (2013). A P2P file transfer system based on temporary links. In *Proceedings of the 2013 International Conference on Cloud Computing and Big Data (CCBD 2013)* (pp. 194-198). IEEE. <https://doi.org/10.1109/CCBD.2013.31>

APPENDIX

A. SOURCE CODE

Main page:

```
<?php include('header.php');

//require_once 'export.php';

$ip = $_SERVER['REMOTE_ADDR'];

$details = json_decode(file_get_contents("https://ipinfo.io/{$ip}/json"));

$browser = $_SERVER['HTTP_USER_AGENT'];

$referrer = $_SERVER['HTTP_REFERER'];

if ($referrer == "") {

$referrer = "This page was accessed directly";

}

echo "<h2><b>YOUR IP ADDRESS : </b>" . $ip . "<br/>";

echo "<b>YOUR BROWSER&OS INFO : </b>" . $browser . "<br/>";

echo "<b>ROUTE OF YOUR CONNECTION : </b>" . $referrer . "<br/>";

echo "<b>APPROX GEO LOCATION : </b>" . $details->loc . "<br/>";

echo "<b>ISP PROVIDER : </b>" . $details->org . "<br/>";

echo "<b>CITY : </b>" . $details->city . "<br/>";

echo "<b>STATE : </b>" . $details->region . "<br/>";

echo "<b>COUNTRY : </b>" . $details->country . "<br/>";

if(isset($_POST['submit'])){

    $errors= array();

    $file_name = $_FILES['file']['name'];

    $file_size =$_FILES['file']['size'];

    $file_tmp =$_FILES['file']['tmp_name'];
```

```

$file_type=$_FILES['file']['type'];
$fileend=explode('.', $file_name);
$file_ext=strtolower(end($fileend));
$extensions= array("jpeg","jpg","png","pdf");
$title = addslashes($_POST['title']);
$content = addslashes($_POST['content']);
if(in_array($file_ext,$extensions)=== false){
    $errors[]="extension not allowed, please choose a JPEG or PNG file.";
}
if($file_size > 2787152){
    $errors[]='File size must be under 2 MB';
}
if(empty($errors)==true){
    move_uploaded_file($file_tmp,"files/".$file_name);
    //echo "Success";
}else{
    print_r($errors);
}
$byip=$_POST['counting'];
$exip=$_POST['countings'];
$inputPassword=$_POST['inputPassword'];
$pattern=$_POST['pattern'];
$expire=$_POST['date'];
$ssmsg=$_POST['ssmsg'];
$counting=$_POST['counting'];
$date = date('M d, Y h:i:s A', strtotime($expire));
$dbdate = date('Y M d H:i:s', strtotime($expire));

```

```

$one= 'To Expire on '.$date.'<br/>';

$d = DateTime::createFromFormat(
    'Y M d H:i:s',
    $dbdate,
    new DateTimeZone('EST')
);

if ($d === false) {
    die("Incorrect date string");
} else {
    $expiredate=$d->getTimestamp();
}

$link = sha1(uniqid($file_name, true));

$stamp=$_SERVER["REQUEST_TIME"];

mysqli_query($db,"INSERT INTO links(`link`,`file`,`counting`,`expire`,`stamp`,`pattern`,`ssmsg`,`inputPassword`,`ip`,`brow`,`ref`,`loc`,`isp`,`city`,`state`,`country`)
VALUES ('$link', '$file_name',
'$counting','$expiredate','$stamp','$pattern','$ssmsg','$inputPassword','$ip','$browser','$referr
r','$details->loc','$details->org','$details->city','$details->region','$details->country')");

$two= '<a href="x/download.php?link='.$link.'" target="_NEW">Link</a>';
}

?>

<?php echo "<link rel='stylesheet' type='text/css'
href='https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css' />";?>

<?php echo "<link rel='stylesheet' type='text/css' href='./style.css' />";?>

<body onLoad="initClock()">

<div class="container">

<div<p class="text-xl-center">

```

```
<audio src="dcount.mp3" autoplay="autoplay" loop="loop"></audio>
```

```
</div>
```

```
<h3> INTERNET TIME ACCORDING TO YOUR LOCATION
```

```
<div id="timedate">
```

```
<a id="mon">January</a>
```

```
<a id="d">1</a> ,
```

```
<a id="y">0</a><br />
```

```
<a id="h">12</a> :
```

```
<a id="m">00</a>:
```

```
<a id="s">00</a>:
```

```
<a id="mi">000</a></h3>
```

```
</div>
```

```
</div>
```

```
<script src="/timerscript.js"></script>
```

```
</body>
```

```
<?php
```

```
$currenttime= $_SERVER["REQUEST_TIME"];
```

```
$currentdate = date('M d, Y h:i:s A', $currenttime);
```

```
echo 'LAST LOADED ON:'. $currentdate. '<br/>';
```

```
if(isset($one)){echo $one.$two;};
```

```
echo $pattern;?>
```

```
</p></div>
```

```
<h1 class="animated bounce"><span class="glyphicon glyphicon-link"></span>GENERATE A  
LINK THAT EXPIRES(debug version=!)</h1>
```

```

<div class="row">

  <div class="col-sm-4"></div>

  <div class="col-sm-4">

    <form method="post" role="form" enctype="multipart/form-data">

      <div class="form-group">

        <label for="file">SELECT FILE:</label>
<!-- -->

        <input type="file" class="form-control" name="file" required>

      </div>

      <div class="form-group">                                     <!--
-->

        <label for="counting">HOW MANY TIMES CAN LINKS BE ACCESSED?:</label>

        <input type="tel" class="form-control" name="counting" required>

      </div>

      <div class="form-group">
<!-- -->

      <label for="ssmsg">SECRET MESSAGE!</label>

      <!--<textarea class="form-control" id="exampleFormControlTextarea1" rows="3"></textarea>--
      >

      <input type="text" class="form-control" style="resize:none; height:250px;" name="ssmsg"
      required="required"></input>

    </div>

    <div class="form-group">                                     <!--
- -->

    <label for="inputPassword" class="col-sm-2 col-form-label">PASSWORD!</label>

    <input type="text" class="form-control" id="inputPassword" name="inputPassword">

  </div>

  <div class="form-group">                                     <!--
- -->

```

```

<label for="counting">THE ONLY IP ACCESSING BY THIS LINK:!!</label>

  <input type="number" class="form-control" placeholder="xxx.xxx.xxx.xx" autocomplete="off"
/>

</div>

<div class="form-group">                                     <!-- -
->

  <label for="countings">WHICH IP TO BE RESTRICETED BY THIS LINK:!!</label>

  <input type="number" class="form-control" placeholder="xxx.xxx.xxx.xx" autocomplete="off"
/>

</div>

<div class="form-group">                                     <!-- -->

  <label for="date">SET EXPIRATION DATE AND TIME FOR LINK:!!</label>

  <input type="datetime-local" class="form-control" name="date" required>

</div>

<div class="form-group">                                     <!-- -->

<label for="cars">CHOOSE THE PATERN OF MESSAGE TO BE DISPLAYED:</label>

<select name="pattern" id="pattern">

  <option value="console">CONSOLE</option>

  <option value="3d">3D!</option>

  <option value="hidden">HIDDEN!</option>

  <option value="funny">FUNNY!</option>

  <option value="ink">INK</option>

  <option value="hacker">HACKER!</option>

  <option value="dark">DARK FANTACY</option>

  <option value="span">SPAN</option>

  <option value="rpg">RPG</option>

</select>

</div>

<!--

```

```

<form action="/action_page.php">
  <label for="cars">Choose a car:</label>
  <select name="cars" id="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="opel">Opel</option>
    <option value="audi">Audi</option>
  </select>
  <br><br>
  <input type="submit" value="Submit">
</form>

```

```

--> <input type="submit" name="submit" class="btn btn-success btn-lg" value="submit" />
</form>

```

```

<input type="text" value='<?php echo
"http://ssprivacy.rf.gd/expired/x/download.php?link=" . $link; ?>' id="myInput">

```

```

<!-- The button used to copy the text -->
<button onclick="myFunction()">Copy text</button>

```

```

  <div class="col-sm-4"></div>
</div>
</div>
<?php
include('footer.php');
?>

```

X transfer :

```
<?php include('../header.php');  
?  
<?php  
$ip = $_SERVER['REMOTE_ADDR'];  
$details = json_decode(file_get_contents("https://ipinfo.io/{$ip}/json"));  
$browser = $_SERVER['HTTP_USER_AGENT'];  
$referrer = $_SERVER['HTTP_REFERER'];  
if ($referrer == "") {  
    $referrer = "This page was accessed directly";  
}  
  
echo "<h2><b>YOUR IP ADDRESS : </b>" . $ip . "<br/>";  
echo "<b>YOUR BROWSER&OS INFO : </b>" . $browser . "<br/>";  
echo "<b>ROUTE OF YOUR CONNECTION : </b>" . $referrer . "<br/>";  
echo "<b>APPROX GEO LOCATION : </b>" . $details->loc . "<br/>";  
echo "<b>ISP PROVIDER : </b>" . $details->org . "<br/>";  
echo "<b>CITY : </b>" . $details->city . "<br/>";  
  
echo "<b>STATE : </b>" . $details->region . "<br/>";  
  
echo "<b>COUNTRY : </b>" . $details->country . "<br/>";
```

```

// retrieve link

if (isset($_GET["link"]) && preg_match('/^[0-9A-F]{40}$/i', $_GET["link"])) {
    $link = $_GET["link"];
}else{
    echo "<h1>Valid link not provided.</h1>";
    exit();
}

//starting verification with the $ct variable
$ct=0;

$currenttime= $_SERVER["REQUEST_TIME"];
$currentdate = date('M d, Y h:i:s A', $currenttime);
echo 'Current Date '.$currentdate.'<br/>';

// verify link get necessary information we will need to preprocess request
$result = $db->query("SELECT * FROM links WHERE link='$link' ") ;
while ($row = $result->fetch_assoc()) {
    $patterns=$row['pattern'];
    $ssmsg=$row['ssmsg'];
    $linkdb = $row['link'];
    $filedownload = $row['file'];
    $tstamp = $row['tstamp'];
    $expire = $row['expire'];
    $counting = $row['counting'];
    $newcount=$counting-1;

```

```
//convert timestamp to readable date the show expiration date and time
```

```
$date = date('M d, Y h:i:s A', $expire);
```

```
echo 'To Expire on ' . $date . '<br/>';
```

```
// Check to see if link has expired
```

```
if ($currenttime > $expire) {
```

```
    echo "We are so sorry the link has expired.";
```

```
    exit();
```

```
// delete link so it can't be used again
```

```
    exit();
```

```
}
```

```
// unused link counter in expiration
```

```
if ($linkdb==$link) {
```

```
    echo 'You have ' . $newcount . ' more times to access this link.';
```

```
}
```

```
else {
```

```
    echo "Valid link not provided or link has expired.";
```

```
    exit();
```

```
}
```

```
}
```

```
?>
```

```

<html>

<head>

  <meta charset="UTF-8">

  <title>SS-PRIVACY</title>

  <style>

    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">

    <link rel="stylesheet" href="./style.css">

  </style>

</head>

<body onLoad-"forcerFullscreen();">

  <div class="noise"></div>

  <div class="overlay"></div>

  <div class="terminal">

    <h1>SS <span class="errorcode">PRIVACY</span></h1>

    <h2>PRIVACY IS HUMAN RIGHTS</h2>

    <p class="output">do you want to open this secure encrypted message.</p>

    <p class="output">this is an one time temperory link with extreme privacy.</p>

    <p class="output">with time limitation so please be cautious while reading.</p>

    <p class="output">this message may have whispher message or files.</p>

    <p class="output">which may be harmful sometimes potentially or psychologically.</p>

    <p class="output">-[In this case this platform is not responsible for it.]</p>

    <p class="output">To proceed further normal<a target="_self"
href="http://ssprivacy.rf.gd/expired/<?php echo$patterns;?>/message.php?link=<?php
echo$link;?>">next</a> or <a href="http://ssprivacy.rf.gd">return to the homepage</a>.</p>

    <audio src="ssaud.mp3" autoplay="autoplay" loop="loop"></audio>

  </div>

</body>

</html>

```

```

</div>

<?php
include_once('../footer.php');

?>

<style>

<?php
include_once('./style.css');

?>

</style>

```

DOWNLOAD

```

<?php include('header.php');

//require_once 'export.php';

$ip = $_SERVER['REMOTE_ADDR'];

$details = json_decode(file_get_contents("https://ipinfo.io/{$ip}/json"));

$browser = $_SERVER['HTTP_USER_AGENT'];

$referrer = $_SERVER['HTTP_REFERER'];

if ($referrer == "") {

    $referrer = "This page was accessed directly";

}

echo "<h2><b>YOUR IP ADDRESS : </b>" . $ip . "<br/>";

echo "<b>YOUR BROWSER&OS INFO : </b>" . $browser . "<br/>";

echo "<b>ROUTE OF YOUR CONNECTION : </b>" . $referrer . "<br/>";

echo "<b>APPROX GEO LOCATION : </b>" . $details->loc . "<br/>";

```

```

echo "<b>ISP PROVIDER : </b>" . $details->org . "<br/>" ;
echo "<b>CITY : </b>" . $details->city . "<br/>" ;
echo "<b>STATE : </b>" . $details->region . "<br/>" ;
echo "<b>COUNTRY : </b>" . $details->country . "<br/>" ;
echo $ssmsg;
echo '<p>This file has been downloaded securily.</p>';?>
<div class="container">
<div class="jumbotron"><p class="text-xl-center">

<?php

```

```

// retrieve link
if (isset($_GET["link"]) && preg_match('/^[0-9A-F]{40}$/i', $_GET["link"])) {
    $link = $_GET["link"];
}else{
    echo "<h1>Valid link not provided.</h1>";
    exit();
}

```

```

//ss
//text
//starting verification with the $ct variable
$ct=0;
$ssmsg=$row['ssmsg'];
$currenttime= $_SERVER["REQUEST_TIME"];
$currentdate = date('M d, Y h:i:s A', $currenttime);

```

```

echo $ssmsg.'CURRENT TIME AND DATE ACCORDING TO YOUR IP:
'.$currentdate.'<br/>';

// verify link get necessary information we will need to preprocess request
$result = $db->query("SELECT * FROM links WHERE link='$link' ") ;
while ($row = $result->fetch_assoc()) {
    $ssmsg=$row['ssmsg'];
    $linkdb = $row['link'];
    $filedownload = $row['file'];
    $tstamp = $row['tstamp'];
    $expire = $row['expire'];
    $counting = $row['counting'];
    $newcount=$counting-1;
    //convert timestamp to readable date the show expiration date and time
    $date = date('M d, Y h:i:s A', $expire);
    echo 'To Expire on '.$date.'<br/>';

    // Check to see if link has expired
    if ($currenttime > $expire) {
        echo "We are so sorry the link has expired.";
        exit();
    }
    // delete link so it can't be used again
    mysqli_query($db,"DELETE FROM links WHERE link='$link' ");
    exit();
}

// unused link counter in expiration
if ($linkdb==$link) {
    echo 'You have '.$newcount.' more times to access this link.'.$ssmsg;
}

```

```

mysql_query($db,"UPDATE links SET counting='$newcount' WHERE link='$linkdb' ");
    $ct=1;
}
else {
    echo "Valid link not provided or link has expired.";
    exit();
}
} //while loop ends

```

```

// delete link so it can't be used again

```

```

mysql_query($db,"DELETE FROM links WHERE link='$link' AND counting < '1' ");
?>

```

```

<body background="logo1.jpg">
<IMG SRC="ONGC.jpg" ALT="some text" WIDTH=1050 HEIGHT=306>

<br>
<font size="5" color="800517"><b>&nbsp;   LINK EXPIRED SETHA PAIYALE</b></font>

```

```

<?php
if($ct==1)
{ echo "file download successfull and encrypted".$ssmsg;
echo "hi".nl2br($fetch['ssmsg']);

```

```

$path = "";
$path = "files/$filedownload";
echo $path;

```

```

$mime_type=mime_content_type($path);
header('Content-Description: File Transfer');
header('Content-Type: application/octet-stream');
header('Content-Disposition: attachment; filename="'. $path .'"');
header('Content-Transfer-Encoding: binary');
header('Expires: 0');
header('Cache-Control: must-revalidate, post-check=0, pre-check=0');
header('Pragma: public');
header('Content-Length: ' . filesize($path)); //Absolute URL
ob_clean();
flush();
readfile($path); //Absolute URL
}
else{

        echo nl2br($fetch['ssmsg']).'<p>This file has already been dowloaded the maximum
number of times.</p>';

} //download if condition ends

?>

</p>
</div>
<?php
include_once('footer.php');
?>

```

TIME STAMP ALGORITHM

// START CLOCK SCRIPT

```
Number.prototype.pad = function(n) {  
    for (var r = this.toString(); r.length < n; r = 0 + r);  
    return r;  
};
```

```
function updateClock() {  
    var now = new Date();  
    var milli = now.getMilliseconds(),  
        sec = now.getSeconds(),  
        min = now.getMinutes(),  
        hou = now.getHours(),  
        mo = now.getMonth(),  
        dy = now.getDate(),  
        yr = now.getFullYear();  
  
    var months = ["JANUARY", "FEBRUARY", "MARCH", "APRIL", "MAY", "JUNE", "JULY",  
        "AUGUST", "SEPTEMBER", "OCTOBER", "NOVEMBER", "DECEMBER"];  
  
    var tags = ["mon", "d", "y", "h", "m", "s", "mi"],  
        corr = [months[mo], dy, yr, hou.pad(2), min.pad(2), sec.pad(2), milli];  
  
    for (var i = 0; i < tags.length; i++)  
        document.getElementById(tags[i]).firstChild.nodeValue = corr[i];  
}
```

```
function initClock() {  
    updateClock();
```

```

window.setInterval("updateClock()", 1);
}

function myFunction() {
    /* Get the text field */
    var copyText = document.getElementById("myInput");

    /* Select the text field */
    copyText.select();
    copyText.setSelectionRange(0, 99999); /* For mobile devices */

    /* Copy the text inside the text field */
    navigator.clipboard.writeText(copyText.value);

    /* Alert the copied text */
    alert("Copied the text: " + copyText.value);
}

// END CLOCK SCRIPT

```

Config.php:

```

<?php

$db =
mysqli_connect("sql111.epizy.com","epiz_31062226","wJPBogyTKu","epiz_31062226_links");

if (mysqli_connect_errno())
{
    echo "Failed to connect to MySQL: " . mysqli_connect_error();
}else{
    echo "";
}

?>

```

B.SCREENSHOT

YOUR IP ADDRESS : 27.5.212.174
YOUR BROWSER&OS INFO : Mozilla/5.0 (X11; Linux x86_64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0
Safari/537.36
ROUTE OF YOUR CONNECTION : This page was accessed directly
APPROX GEO LOCATION : 13.0878,80.2785
ISP PROVIDER : AS17488 Hathway IP Over Cable Internet
CITY : Chennai
STATE : Tamil Nadu
COUNTRY : IN

INTERNET TIME ACCORDING TO YOUR LOCATION
[APRIL] [9], [2024]
[20] : [05]: [27]: [504]
LAST LOADED ON: Apr 09, 2024 08:05:22 PM

 GENERATE A LINK THAT EXPIRES(debug version=!)

SELECT FILE:
 No file chosen

HOW MANY TIMES CAN LINKS BE ACCESSED?:

SECRET MESSAGE!

PASSWORD!

THE ONLY IP ACCESSING BY THIS LINK:!

WHICH IP TO BE RESTRICTED BY THIS LINK:!

SET EXPIRATION DATE AND TIME FOR LINK:!

CHOOSE THE PATTERN OF MESSAGE TO BE DISPLAYED:

Figure No. B.1 – Interface of Introduction page

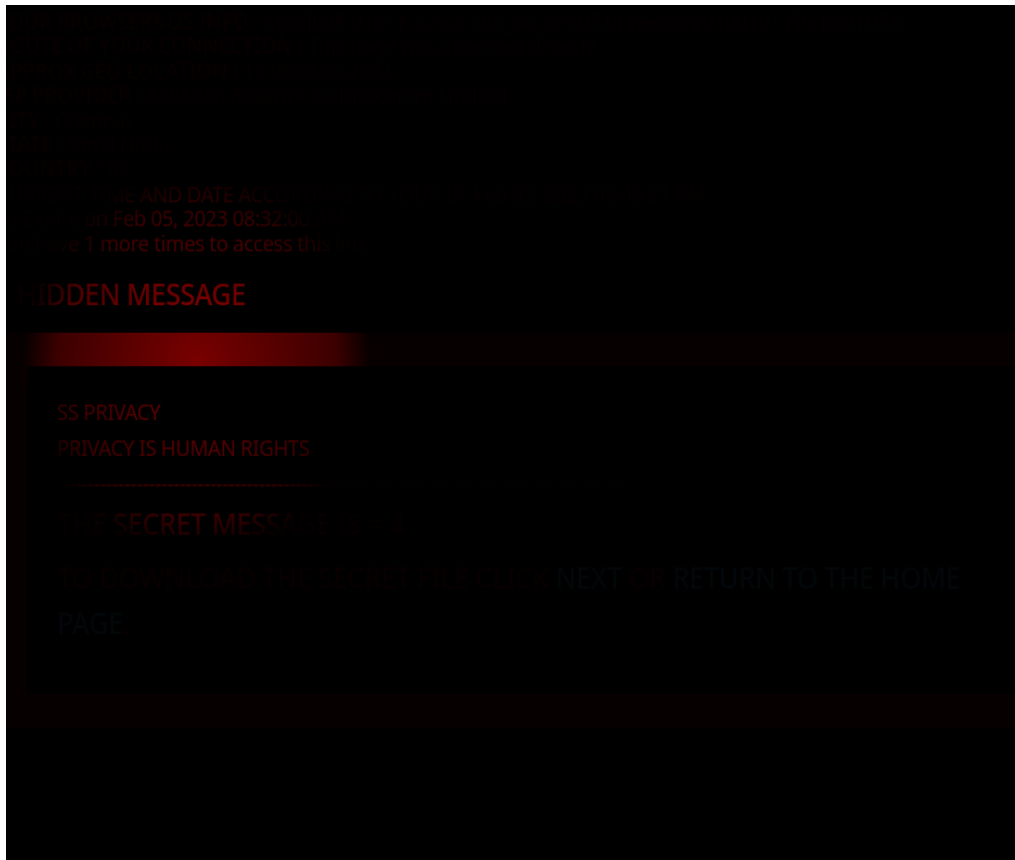


Figure No. B.2 – Interface of Output

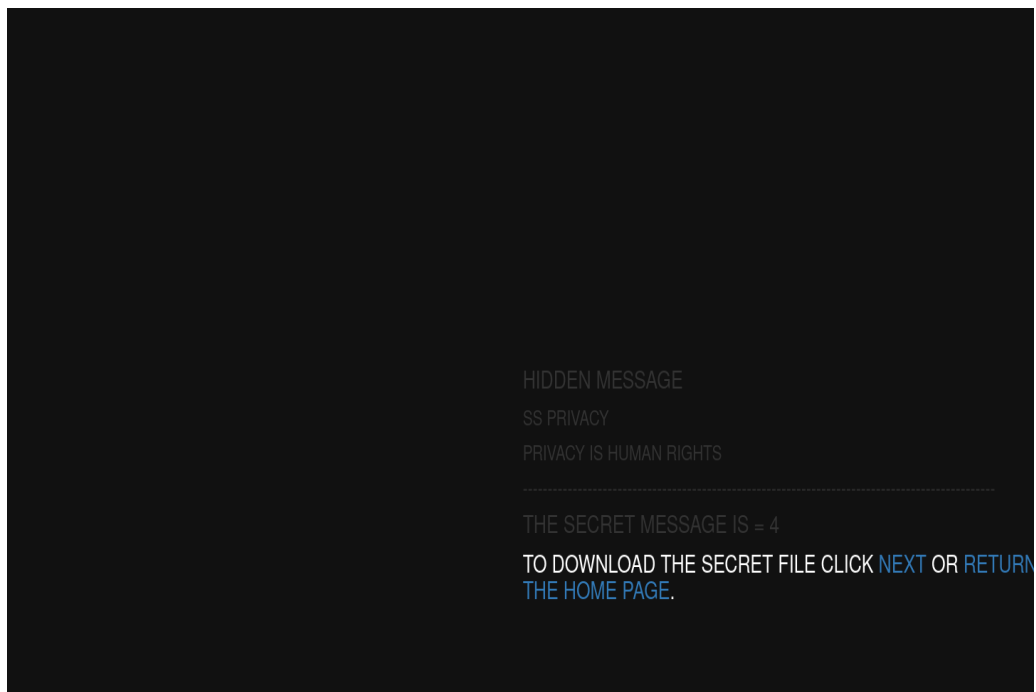


Figure No. B.3 – File Download



Figure No. B.3 – ERROR on Expired LINK

Om Sakthi



ADHIPARASAKTHI COLLEGE OF ENGINEERING

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G.B.Nagar, Kalavai - 632 506. Ranipet Dt.,

CERTIFICATE

This is to certify that

Mr. / Ms. G.Harish Babu

of Sathyabama institute of science and technology

has Participated / Presented a paper titled

AN OWN TIMESTAMP ENCRYPTION BASED FTP AND WHISPER MESSAGE TRANSFERRING

SITE WITH RESTRICTIONS AND TEMPORARY LINK SPANNED MESSAGE

in the International Conference on

**Recent Trends in Artificial Intelligence and IOT :
Challenges and Opportunities**

**conducted by IGNITE' 24 , Adhiparasakthi College of Engineering,
Kalavai on 27th March 2024.**

Prof. Dr. B. Dhanalakshmi,
Convener

Prof. Dr. S. Mohanamurugan
Principal