

Report

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The properties and features of our project are described in detail as under:

- HTTP server:
The server side of our application uses hyper text transfer protocol to process and send the data to the client.

Mechanism on server side:

The overall process of encoding the text into the image is as under:

- The server receives a request (name of the text file) in the form of a simple string.
- It parses it to retrieve the text file from the file system.
- In case a file does not find the required text file, it returns 404 to the client.
- If the file is found, the server opens the file and reads the file.
- After it, it then chooses a random image from the directory.
- Creates a copy of the image.
- Encodes the text.
- Writes into the image.
- Sends it to the client.

Mechanism on client side:

The overall process on the client side is as under:

- The user enters the file name.
- The client retrieves the file.
- It then creates the GET request to receive the image from the client.
- After that, it receives the file and closes the connection.

Problems:

The parsing of all the HTTP requests is too complex. We have only catered for very specific set of requests. Moreover, we are doing the basic operations on the binary form of data. This makes it more prone to errors. The bitwise operations performed turned out to be quite complex and created a lot of problems.

LSB Steganography:

The steganography is very efficient and was improved using concepts of dynamic programming.