

Decryption and Download

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Receiving parameters from getfile.php

1. Filename

2. corresponding key

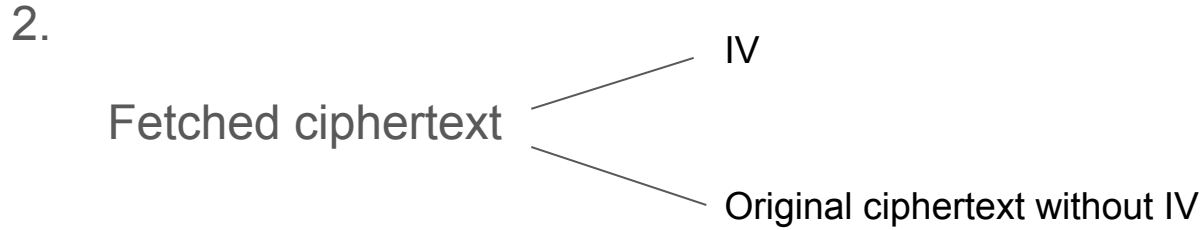
Code part

```
$key=$ POST['key'];
```

```
$filename2="encrypted/".$ POST['file'];
```

Ciphertext forming

1.Fetching corresponding ciphertext of given file name



Code part

```
# retrieves the IV, iv size should be created using mcrypt_get_iv_size()
```

```
$iv_dec = substr($ciphertext_dec, 0, $iv_size);
```

```
# retrieves the cipher text (everything except the $iv_size in the front)
```

```
$ciphertext_dec = substr($ciphertext_dec, $iv_size);
```

Decryption



Code part

```
$plaintext dec = mdecrypt_decrypt(MCRYPT RIJNDAEL 128, $key,  
$ciphertext dec, MCRYPT MODE CBC, $iv dec);
```

Final step

1. Decrypted file is saved in corresponding file name
2. Saved file is ready for download

Code part

```
$myFile = "decrypted/$filename";  
$fh = fopen($myFile, 'w') or die("can't open file");  
fwrite($fh, $plaintext_dec );  
fclose($fh);
```

Features to be implemented

1.Detailed Database

**2.Third party access request and permission granting for file
Access**