lingqingmeng / **enc_dec_pdf.md**   Secret

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<> **Code**   Revisions 11   Download ZIP

Encrypt Decrypt PDF

<> **enc_dec_pdf.md**

Prompt

Create a script that can encrypt and decrypt a PDF file. Both Question 1 and Question 2 are required in order to make it to the next round.

Question 1

Create 2 methods capable of encrypting and decrypting a PDF file with a symmetric key. Use the following repository to start your work. https://github.com/decentral-inc/nodecrypto

There are existing methods in that repository that can encrypt and decrypt a file. The challenge here is to extend this functionality to PDF files.

EncryptPDF

Input: (String, String) A path to a PDF file with the text "hello world" as the content, the symmetric key
Output: (File) Outputs `encryptedPdfFd` a local variable which can then be piped using node `fs` library calls to create `encryptedPdf.pdf` on your file system

DecryptPDF

Input: (String, String) A path to an encrypted PDF file, the symmetric key used to decrypt Output: (File) Outputs `decryptedPdfFd` a local variable which can then be

Success criteria: Open a test PDF file, show the contents of the file and show where it is stored in the directory. Using the command line call `EncryptPDF("path-to-file","some-sym-key")`. Open the file using any tool and see only cipher text. Then use the command line to call `DecryptPDF("path-to-file","some-sym-key")` and see that the contents of the now decrypted PDF file matches the start. Feel free to change the name of the file during the encryption/decryption process to make it easier to resolve duplicate file names.

Question 2

Given a PDF that is sent through the encryption method, modify our encryption method so that we can

For example lets say we call

```
let adobeEncryptedPdf = encryptAlternative(myPdf,starKey)
```

The variable `adobeEncryptedPdf` can then be subsequently piped into a new file descriptor representing an encrypted PDF file on your filesystem. the main difference between using this method and the method in question 1 is that when using the application Adobe Acrobat to open file adobeEncryptedPdf, the application prompts you to enter a password. When you enter the *same password you used to encrypt the file*, you are able to view the fully decrypted PDF in the application Adobe Acrobat

Deliverable

Submit both deliverables

1. A screen recording using Zoom (or similar tool) that shows you demonstrating your deliverables for Question 1

and Question 2

2. Deliverable submitted in the form of a pull request to repository that satisfies the requirements for each question