



CS503: Project 4

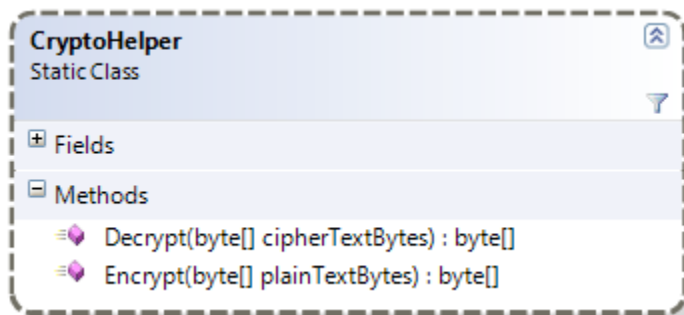
1. The title bar of the Main form should show the name of the document that is open. (5 points)

2. Add Encryption (30 points)

- Saved file must be encrypted. **Do not use File.Encrypt.**
- You must encrypt the contents of the file.

Hints:

- Write a CryptoHelper class that takes in a byte[] and encrypts it and returns an encrypted byte[]. Similarly for decryption. See Diagram below.
- When saving a file, you need to convert your Group/Key Data into a stream of bytes and then encrypt the stream of bytes.
- Write the stream of bytes to the file using *File.WriteAllBytes*.
- When opening a file, read all bytes (*File.ReadAllBytes*), then decrypt the bytes to a non-encrypted byte stream, then convert that to your Group/Key Data model.



3. Allow Drag and Drop Only XML file From Windows Explorer (10 points)

- If more than one file is dragged, only open one file.
- If an invalid, corrupt or fake xml file was dropped, it must not crash the app and must be handled gracefully.

4. Copy and Paste (15 points)

- Context menu in the GroupListControl and KeyListControl should be functional.
- Ctrl+C/Ctrl+V should be functional in both.
- Pasting a group, pastes a copy of the group and all of its associated keys.
- Pasting a key or multiple keys, adds the keys to the currently selected Group.

5. Print and Print Preview the Groups and associated keys (25 points)

Hint:

- Print Preview Window should be maximized
- Implement a Print method on some business object. I used the existing KeyPassMgr.
- Call it from your OnPrintPage handler.



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6. Audit Trail (10 points)

- a. Combobox should contain an Audit Trail of all operations made.
 - i. Group Add, Edit, Delete
 - ii. Key Add, Edit, Delete
- b. Note that the latest action taken should be automatically visible in the Combo Box

7. Clickable Clock control (5 points)

- a. When the clock control in the status strip is clicked, the standard windows clock app is launched to allow time change.