## Encrypt File

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| File Path | Get file bytes | Encrypted File |
| Algorithm Type | Encrypt using algorithm | Error messages |
| Key | Write bytes to disk | Progress |
| Key file path | Split Data |  |
| Split Files? | Compress file before encrypting |  |
| Compress? | Hash Data before encrypting |  |

## Decrypt File

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| File Path | Get file bytes | Decrypted File |
| Key | Search directory for other parts | Error Messages |
| Algorithm Type | Decompress files | Progress |
| Key file Path | Merge files |  |
|  | Compare old hash with new hash |  |

## Split File

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| File path | Split file based on size | Multiple files |
| Split size | Add part identifier to each segment |  |
|  | Write files to disk |  |

## Merge Files

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| File path | Find any other parts in the same directory | Single file |
|  | Write found parts as one file to disk |  |

## Compress File

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
|  |  |  |

## Extract File

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
|  |  |  |