Source Code:

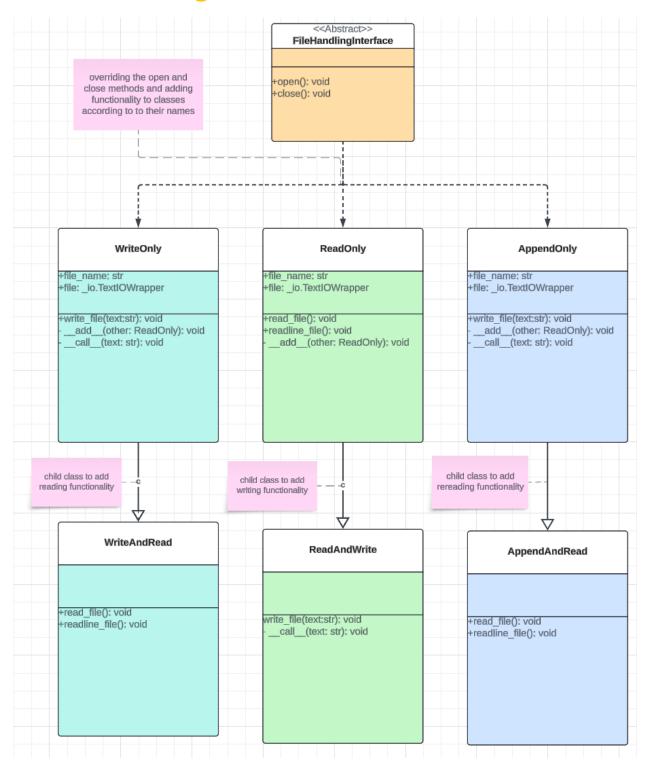
```
from abc import abstractmethod, ABC
class FileHandlingInterface(ABC):
class ReadOnly(FileHandlingInterface):
        self.file = None
            self.file.close()
            return self.file.read()
            return self.file.readline()
```

```
def add (self, other) -> None:
           self.self text = self.file.read()
           self.other text = other.file.read()
class ReadAndWrite(ReadOnly, FileHandlingInterface):
           return self.file.write(text)
class WriteOnly(FileHandlingInterface):
       self.file name = file name
       self.file = None
           self.file.close()
```

```
return self.file.write(text)
class WriteAndRead(WriteOnly, FileHandlingInterface):
   def read file(self) -> None:
           return self.file.read()
           return self.file.readline()
class AppendOnly(FileHandlingInterface):
```

```
self.file = open(self.file name, "w")
           self.file.close()
   def add (self, other) -> None:
       self.write file(text)
class AppendAndRead(AppendOnly, FileHandlingInterface):
           return self.file.read()
```

UML Class Diagram + Notes:



You can also find the diagram here