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ISP Assignment

There are a lot of changes that I have made in my new reference monitor to make it as non breakable as possible. I have discussed some of them below-

- 1) My code now checks if there is already a backup file present which it did not check earlier. If not, it will create A/B Files and will write "SE" to A.
- 2) If backup file is not present, it will cause an exception.
- 3) For writeat function call, used lock to better handle multiple writes to a call.
- 4) For writeat function call, I have added offset and length validation and only then it will write data.
- 5) After correct validation, it will release the lock and write the data.
- 6) For readat function call also, I have included offset and length validation and then the code will read and return the read data.
- 7) For close function call, If both files are valid, the older one will be discarded else invalid file will be discarded.
- 8) Also checks if the written file starts with "S" and ends with "E".