

Operating Systems

CMPT 424

-Lab 9

Goals	Implementing a disk subsystem This active learning exercise will help you make progress on the practical aspects of developing your operating system.
Instructions	<ol style="list-style-type: none">1. Now that you have the “raw” storage (as HTML5 Local Storage), implement a file system API supporting the commands specified in your Issues and Final Project.2. The test commands given in the resources section below give you a good idea of what to expect in terms of file system usage from the CLI.3. Remember, your scheduler or context switcher will make use of the file system too, so be mindful of that in your design.4. Add the features as specified in your Issues and Final Project.5. Test.6. Read chapter 12.1.1 in the 8th edition of our text.7. Read chapters 11.1 through 11.5 in the 8th edition of our text.
Questions	<ol style="list-style-type: none">1. What now?
Resources	<ul style="list-style-type: none">• Chapter 8 in https://gustavus.edu/+max/os-book/• Chapter 37 in http://pages.cs.wisc.edu/%7Eremzi/OSTEP/• Testing your file system: format create alan write alan "this is a test." ls read alan write alan "this" read alan write alan "123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890" read alan delete alan ls read alan
Grading	Your work on this lab will contribute to your grade for the Final Project.
Submitting	Commit your work to your private GitHub account in an appropriately-named folder. Make sure to tag your commit messages with the Issue number they address.

```
>format
Format successful
>create alan
File created: alan
>write alan "this is a test."
File updated: alan
>read alan
this is a test.
>write alan "this"
File updated: alan
>read alan
this
>ls
alan
>delete alan
File deleted: alan
>read alan
File does not exist: alan
>ls
No files exist
>
```